

SPECIAL: SIERRA CLUB 1993 OUTINGS

SIERRA

THE MAGAZINE OF THE SIERRA CLUB • JANUARY / FEBRUARY 1993

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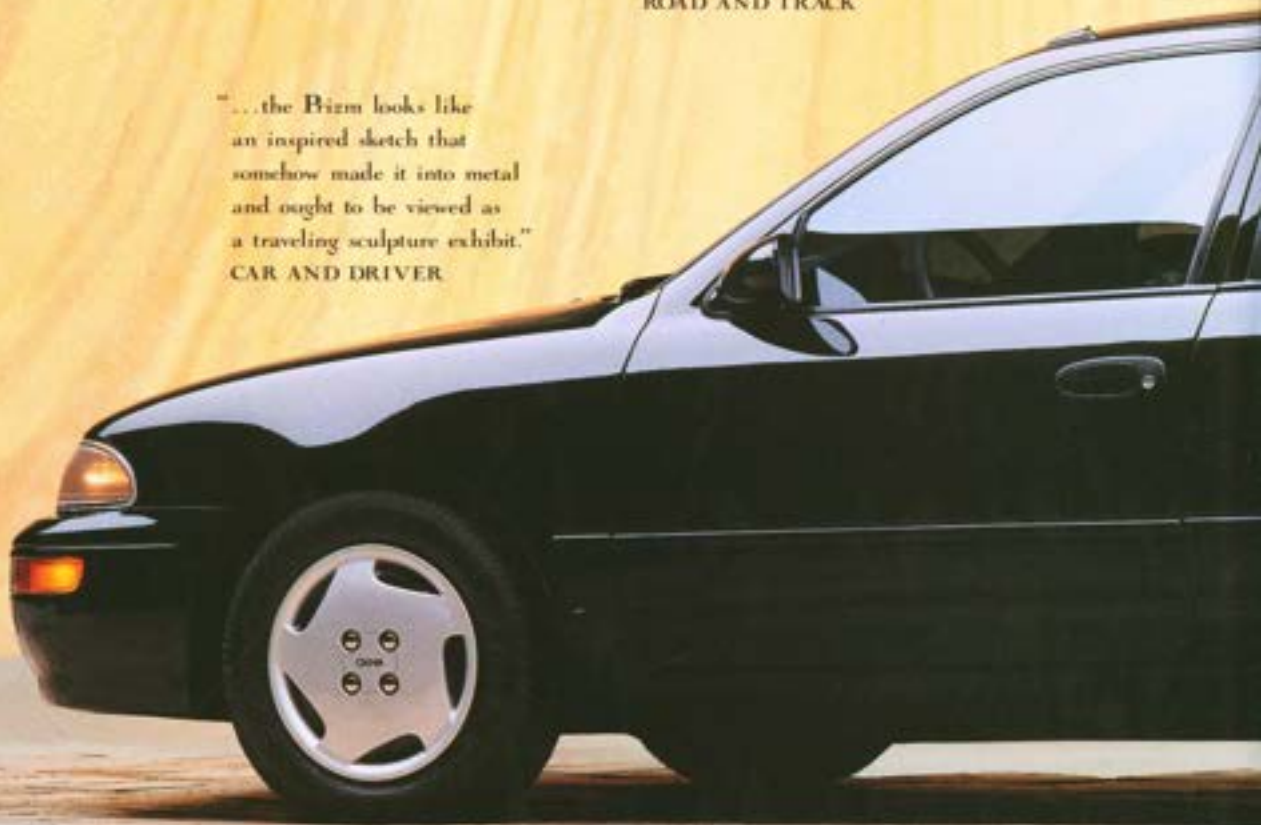


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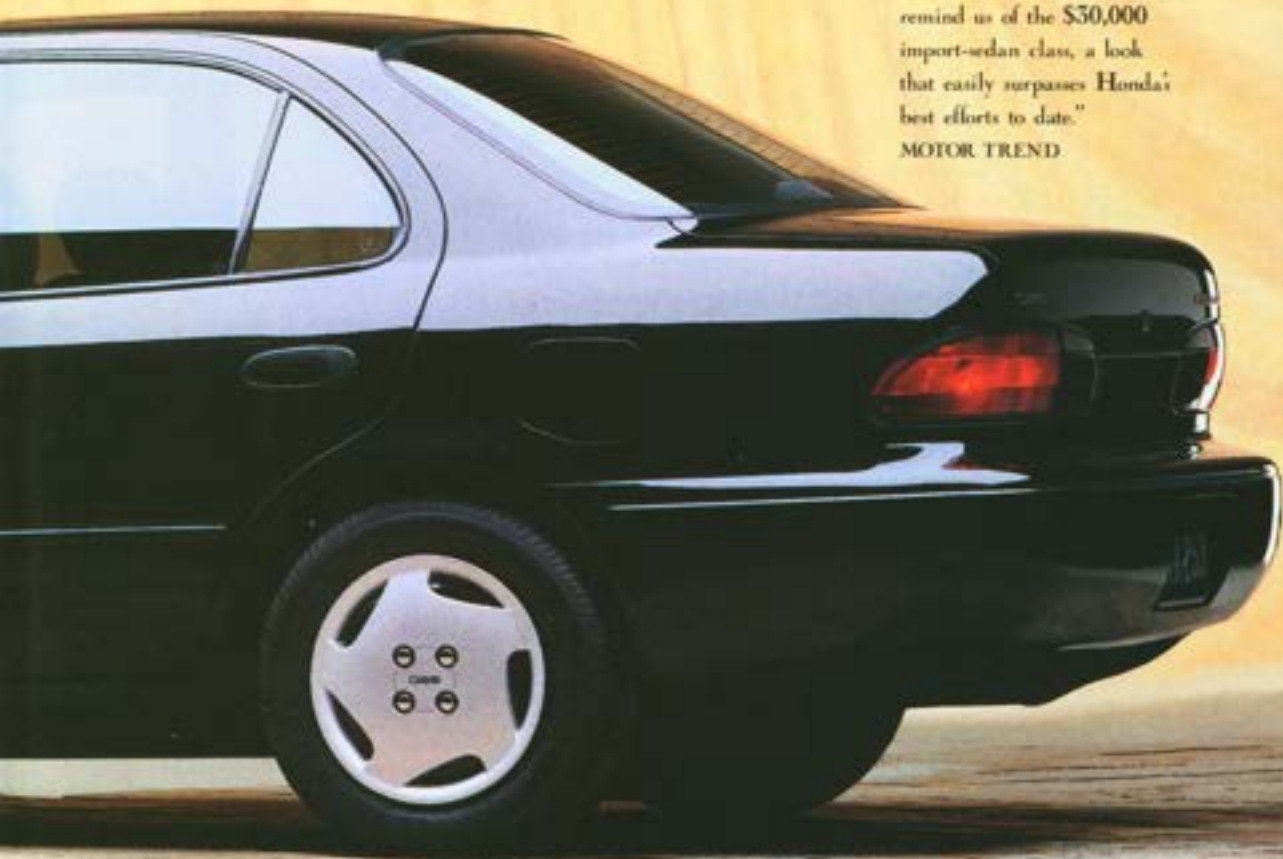
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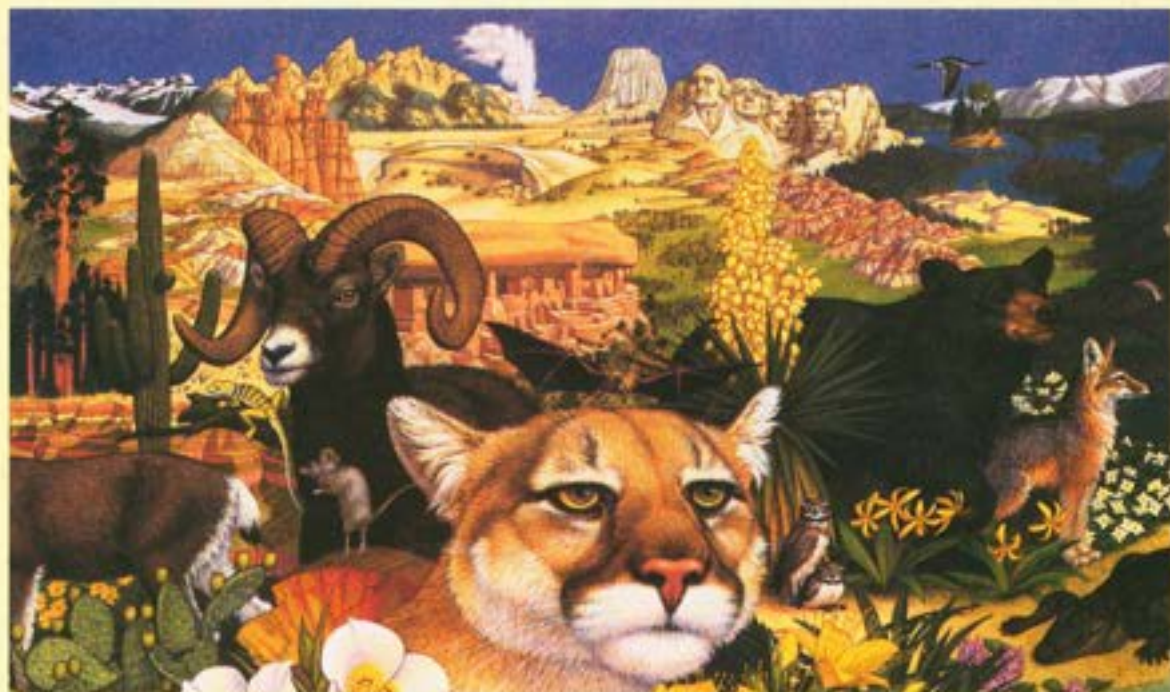
On the shores of Puget Sound
Brenda Peterson



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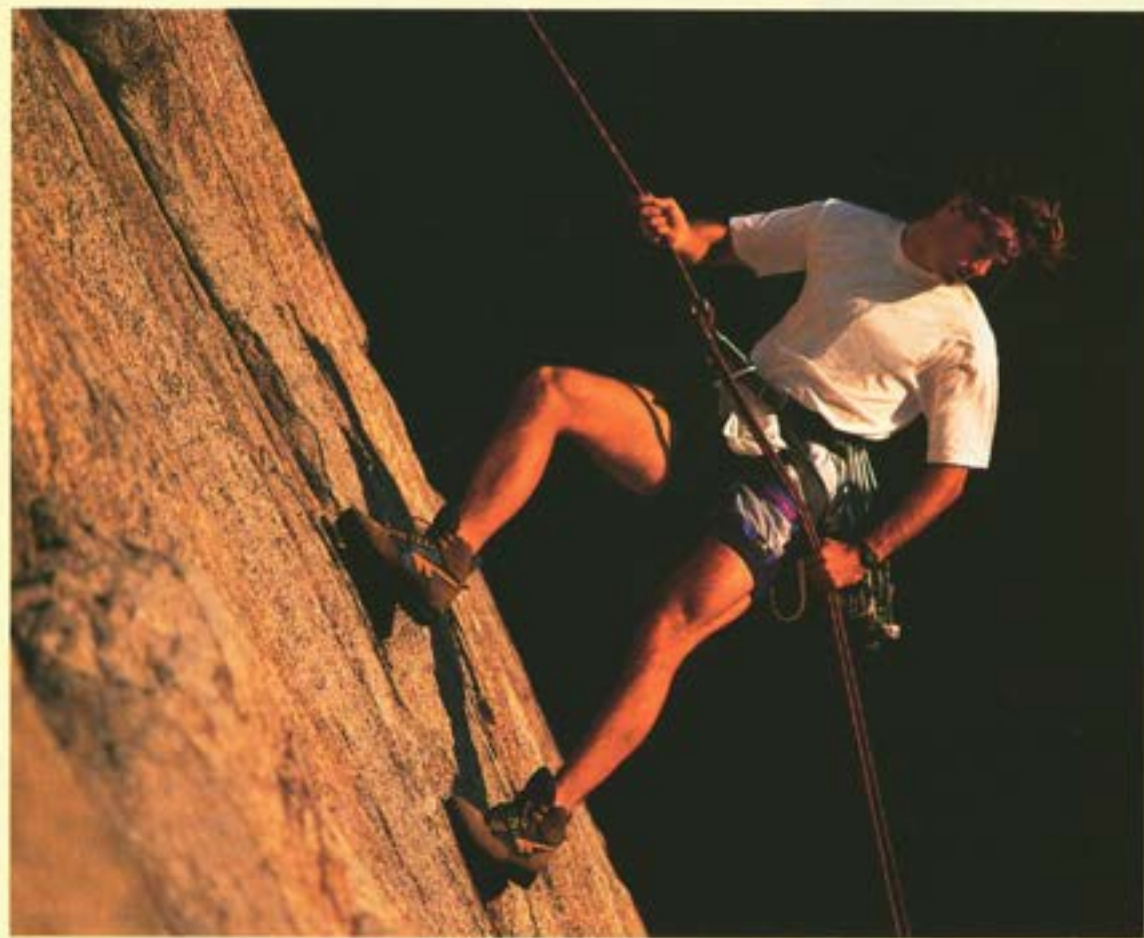
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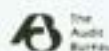
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RESPONSE OF THE JEDI

As an EPA employee and an active officer in my local Sierra Club group, I read with interest your article on the sins of the EPA ("In Name Only," September/October 1992). I agree with William Sanjour that things could be a lot better, especially in the toxic-waste area. However, the picture is not as bleak as he has painted.

Yes, top EPA officials sometimes testify against good environmental legislation, but Congress can ignore them. Should I be mad at my agency for this? I can always help mobilize Sierra Club members to undo their testimony with letters and calls to Congress. And, yes, EPA could do a better job writing tougher regulations, but we almost always get sued by both industry and environmental groups, so the courts figure out where we have gone too far astray from congressional intent.

But I must protest the author's comments about enforcement. While Sanjour admits that we have collected millions of dollars in penalties and sent some polluters to jail, he belittles our accomplishments by saying that "in most cases the agency had to be coerced into meaningful action." Is he kidding? We in the EPA Office of Enforcement take great delight in our reputation as young Jedi warriors, fresh (sometimes not so fresh!) from law school, ready to cut our teeth on the thorny hides of corporado beasties. Far from being the jaded, depressed types that Sanjour knows, we are proud of our record of collecting more penalties in the last four years than in the entire previous history of the EPA.

And what's this about consent decrees being a lousy way to resolve violations? They work great! We collect millions! Just as in more than 90 percent of all civil litigation, the parties reach an out-of-court settlement so we don't have to waste weeks of everyone's time at trial. That's efficient. Polluters settle because they know we have them dead to rights. My study on the

matter indicated that we sometimes get more and sometimes less (about 50-50) than our "bottom line" for a case when we take it to trial. So it is not like we are giving away the store to avoid a fight.

We enforcers on the federal, state, and local levels can use your help. Contrary to the suggestion in the article, we do follow up on tips, since they result in a lot of our best cases. We also nab violators based on our inspections and our own tests. (We do not depend solely on the polluters' data.) Local Sierrans can help by bringing more citizen suits against polluters under the Clean Air Act—because we enforcers can't sue them all, much as we would like to.

*Charlie Garlow
Takoma Park, Maryland*

William Sanjour responds: *Mr. Garlow is in the air program at the EPA, while my experience has been in hazardous waste, where I have not seen an enthusiastic enforcement official in years. Still, his letter demonstrates some of the same faults in the EPA's enforcement that my article did.*

Garlow points out that enforcement depends on a government official witnessing a violation. Citizens may be coughing, their eyes watering, and the paint peeling from their cars, but if a bureaucrat isn't there, they can do nothing. My experience with hazardous-waste incinerators has been that the worst problems often occur on nights and weekends, when no inspector is available.

Garlow is proud of the money collected in consent decrees. But that's just a cost of doing business, and the money doesn't help the victims. Hazardous-waste facilities have paid tens, maybe hundreds of millions of dollars in fines, but they go right on polluting. In spite of that, not one single such facility has ever had its permit pulled. For example, the Chemical Waste Management incinerator in Sauget, Illinois, has been burning hazardous waste for two and a half years at temperatures significantly below what its permit allows. The company has signed consent decrees for millions of dollars, but continues polluting in violation of its permit.

I agree that the current practice of moving from a high-level regulatory function to an important job at a private-sector "regulatee" smells fishy, and that there needs to be some protection from those who abuse their positions at the EPA. But after spending four years in the EPA's regional office in Boston, I think the situation is not as clear-cut as Sanjour suggests.

After former EPA Administrator William Ruckelshaus was hired at Browning-Ferris Industries, I spoke with some workers there. They said that he was really shaking things up: BFI was getting out of certain lines of work, and strict adherence to all environmental regulations was getting much more attention than it ever had.

When I left the EPA (I was just a simple engineer, not a manager), I joined a chemical company. I have found that my EPA experience has helped me understand the real environmental impacts of the company's decisions, and to encourage it to make the right ones.

I think we need a lot more movement between the public and private sectors. One of the problems with the Washington EPA is that a lot of the people there have never worked for a regional office, a state environmental agency, an environmental group, or an industry. They do not understand what industry is and is not capable of, what the real environmental problems are, how the regulations they write are actually implemented by the regions, how much is already going on in the states, etc. As a result, they do not believe industry when they should, and often cave in when they should not.

*Corrine Kupstas
St. Louis, Missouri*

IF NOT THERE, WHERE?

"Gambling With Tomorrow" (September/October) is an unfortunate piece of journalism. While it recounts problems with Yucca Mountain, Nevada, as a nuclear-waste disposal site, it makes no mention of any alternatives.

Clearly *something* has to be done with nuclear waste. Yes, the wisdom of creating it is debatable, but the nuclear wastes are here. What do we do with them? If not Yucca Mountain, then where? William Poole lists concerns with the Nevada site. People in Nevada object. Of course they do; most people would. But what location has better population, seismic, and water-table characteristics?

Often there is no ideal solution to a given problem, but there still can be a *best* solution. Poole's article offers no objective appraisal of a preferred solution to nuclear-waste disposal. By engaging in polemics rather than solutions, you may delay resolution of the disposal issue and leave the environment at greater risk.

James Feit

Sunnyvale, California

While William Poole's article did not discuss any sites or waste-disposal methods other than deep burial at Yucca Mountain, it did offer an alternative to the current situation: an extended time-out during which nuclear facilities could store their wastes on site, more-reliable technologies might be developed, and the government could earn the public's faith in the selection process. When something as lethal as radioactive waste needs to be safeguarded for thousands of years, the environment is always at risk; the only way to minimize that risk is to ensure—insofar as humanly possible—that decisions are not motivated by politics or nuclear-industry pressure. That has not been the case thus far at Yucca Mountain.

REVISED BEYOND RECOGNITION

The letter appearing over my name in September/October ("Letters") was rewritten and shortened by the editor to such an extent that I repudiate it.

Thomas H. Jukes

Berkeley, California

The letter to which Mr. Jukes refers was sent to us on May 5, 1992, in response to our mention of him in a "Clubways" article on the Sierra Club Archives at the University of California. The relevant passages are printed here in their entirety:

May I comment briefly on the mention of me by Mark Mardon (*Sierra*, page 23, May/June 1992), since I am the only person for whom a work address (American Cyanamid) is listed by him? He quotes a letter from me to Club President Phil Berry, who was elected in 1969, six years after I had left the named address. My objection to *Silent Spring* was its omission of facts rather than its "oversimplified handling" of the topic of DDT, which, according to S. W. Simmons of the U.S. Public Health Service, saved more lives and prevented more illness than any chemical in history, except perhaps for the antibiotics. American Cyanamid did not sell or make DDT; they had a major competing product, Malathion, and perhaps not unexpectedly, they did not criticize *Silent Spring*. I rather thought they might object to my defending DDT, but they did not, although one of the vice-presidents got a strong letter from the Audubon Society.

SCRAPHEAP OF HISTORY

Paul Rauber's "Schemes That Go Clunk" (July/August) implied that Unocal's South Coast Recycled Auto Program (SCRAP) was conceived as a "public-relations exercise" to boost the company's environmental image, and to "save piles of money" by allowing Unocal to avoid complying with air-quality regulations.

Nothing could be further from the truth. In 1992 Unocal will spend over \$300 million on environmental compliance just in the state of California. (In comparison, our California base payroll is \$250 million for the year, and our shareholders will receive \$165 million in dividends.) It is just as fallacious to suggest that SCRAP was conceived for image purposes, or as a "substitute" for reducing air emissions from our facilities. The project was a good-faith effort by Unocal to help improve air quality in the Los Angeles basin.

Existing government data have established that vehicles account for at least 60 percent of the smog in Los Angeles. Refineries and power plants combined account for just 4 percent of the total (not 7 percent for refineries

alone, as stated in your article). The data also show that older cars and trucks produce 30 percent of vehicular pollution in Los Angeles, despite accounting for only 10 percent of the vehicle miles traveled.

Our goal with SCRAP was to conduct a demonstration project that would make an immediate, measurable contribution to air quality by taking some of the heaviest-polluting vehicles—pre-1971 automobiles without emissions-control equipment—permanently off the freeways. In the process, we hoped to encourage companies and individuals, as well as the government, to explore innovative and cost-effective methods for improving air quality.

The project succeeded in meeting all of these goals. It removed 13 million pounds of pollution a year from the air of the L.A. basin. It took less than four months to accomplish. Reducing emissions from our Los Angeles refinery by the same amount would take three to five years, and cost ten times as much.

Sierra seems to find something wrong with the fact that the emissions reductions achieved by SCRAP came from vehicles rather than fixed sources, and that the effort was highly cost-effective. In our view, a pound of pollution is a pound of pollution, whatever the source. Why not go for the easiest, fastest, and least-expensive sources first? Doing so does not mean we are skirting controls on fixed sources, such as oil refineries. It simply makes good environmental and economic sense.

Richard J. Stegemeier, Chairman & CEO
Unocal Corporation
Los Angeles, California

Paul Rauber responds: *It is odd for Mr. Stegemeier to deny the PR value of Unocal's SCRAP program while simultaneously insisting that it be seen as a purely altruistic venture. "There is no question," Marika Tatsunami of the Natural Resources Defense Council notes in her exhaustive study of SCRAP, "that the project had tremendous public-relations value—indeed, far exceeding Unocal's most optimistic expectations." That value apparently derived from the perception of SCRAP as what Stegemeier refers to as "a good-faith effort to help improve air*



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quality," rather than an attempt to save
Unocal a lot of money by not cleaning up
dirty refineries.

*Of course there is nothing wrong with
getting rid of polluting cars, or with doing it
cheaply. The problem is portraying SCRAP
as a substitute for cleaning up fixed sources
of pollution—the point to be demonstrated,
after all, by Unocal's "demonstration proj-
ect." Crucial to that effort is downplaying
the amount of pollution caused by refineries
and exaggerating that caused by clunkers.
According to the Southern California Air
Quality Management District, L.A.-area
oil refineries put out 107 tons of hydrocar-
bons a day out of a total of 1,379 from all
sources: by my math, that's 7.76 percent.
And while half the cars turned in were
driven a lot, 12 percent were no longer
driven at all. Dead cars don't pollute.*

NO HAY PROBLEMAS

While we at FONATUR [the Mexican
national tourism promotion fund] ap-
preciate the interest your publication
has in tourism development in Mex-
ico, we object to the highly biased re-
porting contained in John Ross' article
"Dangers in Paradise" (July/August).

As the article points out, tourism is
an important component of the Mexi-
can economy. What you did not state is
the fact that the government of Mexico
is actively involved in the implementa-
tion of programs that ensure responsi-
ble development of our abundant
tourism assets. The very fact that we
have organized our tourism develop-
ment efforts into "megaprojects"
speaks to our concern that tourism in-
dustry expansion be addressed in a
planned and coordinated way. We have
learned from examples in other coun-
tries that unrestricted development is
as damaging to a location's tourism po-
tential as it is to the environment.

Huatulco was a region in desperate
need of development when the
FONATUR project was initiated in
1983. Since then, investment by a
number of Mexican and international
companies has not only generated jobs
for our rural citizens, it has ensured
that this beautiful stretch of Pacific
coastline will be enjoyed by the citizens
of Mexico and millions of international

visitors for years to come. Many hotels
and related tourist facilities have been
built in Huatulco, but to suggest that
development may get "wildly out of
control" is an irresponsible statement
without foundation.

Anyone who has taken the time to
investigate the development of Hua-
tulco or any of the other FONATUR
megaproject sites is well aware of the
important role that environmental im-
pact studies play in the project applica-
tion and approval process. Developers
must demonstrate that their projects
are environmentally sound as well as
economically and structurally viable.

The article questions the compensa-
tion offered to property owners. Com-
pensation offered by the government
to landowners in project development
sites has been consistently in line with
prevailing market rates. To compare
prices paid for raw land with those
being asked years later for commercial
property to which infrastructure has
been added at great cost is misleading.

Equally irresponsible is to state that
FONATUR was in any way involved
with the unfortunate death of a Mexi-
can landowner. We do not in any way
accept this responsibility and it is not
ethical to make such a statement with-
out having the evidence to prove it.

*Lic. Esteban Maqueo Coral
Marketing Vice President, FONATUR
Mexico City, Mexico*

John Ross responds: *One need not look
for examples "in other countries" to demon-
strate the downside of "unrestricted [tourist]
development"—only as far as Cancun and
Acapulco. And FONATUR's own projec-
tions for tiny Huatulco—100,000 people by
the year 2000—suggest just how "wildly out
of control" such megaprojects are.*

*The Zapotec Indians of Huatulco did
not surrender to FONATUR easily. Some
were bought out at what they considered to
be a fair price, and others were punished for
refusing to sell and forced off the land for a
pittance. The late Alfredo Lavariaga, the
last holdout, kept a log indicating vast dis-
parities in compensation paid out by the
Mexican government.*

*Finally, the suggestion that FONATUR
was responsible for Mr. Lavariaga's death*

came not from me but from Gerardo Garcia and nearly everyone else I talked to in Santa Cruz Huatulco.

UNDUE EXPOSURE

In his article "Second Sunset" (March/April 1992), James Lerager claimed that radiation from nuclear testing in Kazakhstan caused genetic disorders. In making his point, the author used a common fallacy: A preceded B, therefore A caused B—like the rooster claiming his cock-a-doodle-doo caused the sunrise. Lerager clearly assumed a link between the Kazakhs' radiation exposure and health problems in their offspring. Certainly, radiation exposure can harm the individuals exposed: radiation sickness, weakening of the immune system, and cancer. These may have happened to the exposed Kazakhs. But I know of no data linking radiation exposure to genetic malformations in subsequent generations, despite the exhaustive studies of the Japanese bomb survivors, persons occupationally exposed, patients receiv-

ing radiation or radioisotope therapy, populations living in naturally high-background areas, and many other studies that have been uniformly negative with regard to radiation-induced transmissible genetic disorders in man.

Lerager's story posed more questions than it answered. He wrote: "But the effects of the tests are painfully evident in the surrounding villages, which since 1950 have been plagued by relentless health problems." Were the villagers healthy before 1950? Are there comparable records that would substantiate Lerager's claim that health has been worse since then? (Soviet health records were notoriously poor.) And where is the link with radiation? Any student could pick up the "A caused B" fallacy here.

Lerager has shared with your readers his misconception that radiation can cause just about anything, and then, playing on the public's fear of the R-word, constructed a story graphically illustrating some tragic medical problems and linking them as if one caused

the other. This kind of fast-and-loose claim might sell copies of some tabloid, but it does not belong in *Sierra*.

Dennis D. Patton, M.D.

Professor of Radiology

University of Arizona, Tucson

The study of how a parent's exposure to radiation affects his offspring is in its early stages and filled with speculation; to the extent that we and James Lerager made categorical statements about points still under debate, we stand corrected.

Though well aware of the data Dr. Patton refers to, many geneticists, epidemiologists, and toxicologists have not put the question to rest. The controversy was discussed in a recent (October 2, 1992) Science magazine article that stated, in reporting on a conference held on the topic last September, "The consensus [of the meeting] was that there is an urgent need for studies to elucidate mechanisms underlying tantalizing evidence that many different types of paternal radiation exposure induce changes in sperm or semen that could affect children's health."

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Send your submission to Sierra Nature-Writing Contest, 730 Polk Street, San Francisco, CA 94109. Entries must be postmarked by February 1, 1993. Be sure to include a stamped, self-addressed postcard if you wish receipt of your manuscript to be acknowledged, and an SASE (with appropriate postage) if you wish your manuscript returned. We will not notify non-winning entrants of the results unless we have an SASE.

The contest is open to all professional and amateur writers except Sierra Club staff and their immediate families, and previous winners of this competition. Void where prohibited.

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Making a World of Difference

For better than 20 years, Sierra Club International Program activists have been trying to right the balance of the world. They've testified on global issues at countless congressional hearings, conducted an exhaustive world wilderness inventory, and promoted the Club's causes at international conferences, including both Earth Summits. They've exposed illegal actions by U.S. oil companies in Huaorani Indian territory in Ecuador, and decried World Bank support of logging in the Pygmies' forest home in Cameroon.

"The Club's first priority has always been to urge the United States to get its own house in order," says Sierra Club International Affairs Vice-President Michele Perrault. "But we must also share our expertise with environmentalists overseas, and try to keep the U.S. and other wealthy nations from funding ill-conceived projects in the developing world."

The International Program has made some headway toward realizing these ambitious goals. In recent years, it overcame resistance from the Reagan administration and convinced Congress to compel the U.S. Agency for International Development to spend a portion of its budget on protecting animal and plant diversity, and to restrict the agency from funding projects that destroy rainforests. Program activists pressured a recalcitrant World Bank to institute environmental assessments of its projects. And they persuaded Congress to allocate up to \$70 million more a year for international family-planning assistance than the Bush administration had wanted to spend.

Such victories are encouraging, but as last year's ineffectual Earth Summit in Brazil made clear, transforming the world's attitudes will not happen overnight. Old habits dominate indus-

try and government, observes Sierra Club Chairman Michael McCloskey, one of the principal architects of the International Program: "The challenge for the international environmental movement—which was born only 21 years ago at the Stockholm Earth Summit—is to motivate change by being flexible, offering up new ideas, and persisting against all odds."

At present the program—a network that includes a national committee of volunteer Sierra Club leaders, regional and local subcommittees within Club chapters and groups, and a professional staff in Washington, D.C.—is focusing on multilateral development lending,

*In it for the long haul,
they learn locally
and act globally.*



rainforest protection, trade agreements, and population stabilization. All are working hard to pass legislation (S. 1159 and H.R. 2854) that would require both raw and finished tropical woods coming into the United States to bear labels identifying species and country of origin, so consumers might make informed purchases. Meanwhile, the Club's Trade and the Environment Campaign has geared up to ensure that neither the North American Free Trade Agreement nor the worldwide General Agreement on Tariffs and Trade (still under negotiation) undermine domestic legislation designed to protect the environment and people's health. The Club's International Population Stabilization Campaign is urging the U.S. to support the United Nations' Amsterdam Declaration, which, among other elements, includes a provision for world-

wide access to birth control by the year 2000. A major grassroots effort by the Club's Population Program staff has so far resulted in the creation of 150 population committees, active in 45 states.

A natural part of international environmental work is to prod governments into respecting the rights of those struggling to protect the places where they live. "We've gone to bat for Penan tribesmen in Sarawak, Malaysia, who've been imprisoned for defending their forest," says McCloskey, "and for protestors in Burma who've suffered under a dictatorship while their homelands are being razed. We stood up for people in India persecuted for opposing a dam on the Narmada River."

The scope and volume of the International Program's activities have increased considerably since its founding in 1971, notes McCloskey. Throughout the 1970s and early '80s, it was a shoestring operation run out of various New York City offices located near the United Nations. A small corps of volunteers and staff worked for a strengthened Law of the Sea treaty, a commercial-whaling moratorium, the protection of Antarctica, and exchanges between Soviet and American conservationists. In 1985 the program shifted to Washington, D.C., to seek environmental reform through Congress, the White House, and the multilateral development banks.

But the goal of the International Program remains to foster a global outlook among all the Club's grassroots activists in the United States and Canada. "Our hope is that those who work on domestic issues will exchange ideas with foreign environmentalists," says Perrault. "If we're successful, we'll have an international network in which everyone understands that what affects one part of the planet affects the whole."

—Mark Mardon

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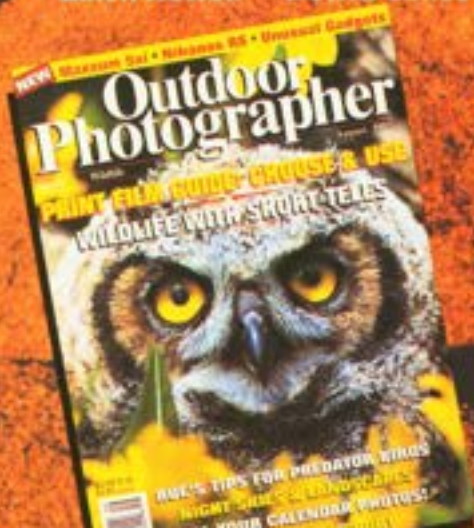
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WAYS & MEANS

Opening Acts

CARL POPE

As Inauguration Day draws near, the big-money lobbyists are scrambling from the White House to Capitol Hill. One of the greatest opportunities presented by Bill Clinton's victory is the severing of the puppet strings that ran between corporate interests and the executive branch of the federal government, and it now appears that the rule of law—not of money—might be

restored to the EPA and the Interior, Agriculture, and Transportation departments. Industry advocates must shift their emphasis: if environmental statutes can't be subverted, they must be changed—and the best bet is to shake the ever-wobbly commitment of the U.S. Congress. Hence the stampede to the other side of town.

This is not to say there won't be plenty of opportunity to slow down the pace of environmental progress within the executive branch. The desire of the Clinton White House to jump-start the economy could easily consign environmental reforms to a vague and distant future. Vice-President Al Gore, we should remember, is only one figure in an administration as yet untested.

Much will be revealed in the first 100 days, the Clinton crew's best opportunity to launch historic initiatives and to plant brave new ideas. The critical challenge for environmentalists is to ensure that the *right* victories are achieved early on.

The Sierra Club has developed a strategic plan for this period, one that will implement the environmental agenda that has been in deep-freeze for the past 12 years. We are helped here by the wealth of popular, important, and politically ripe environmental issues left be-

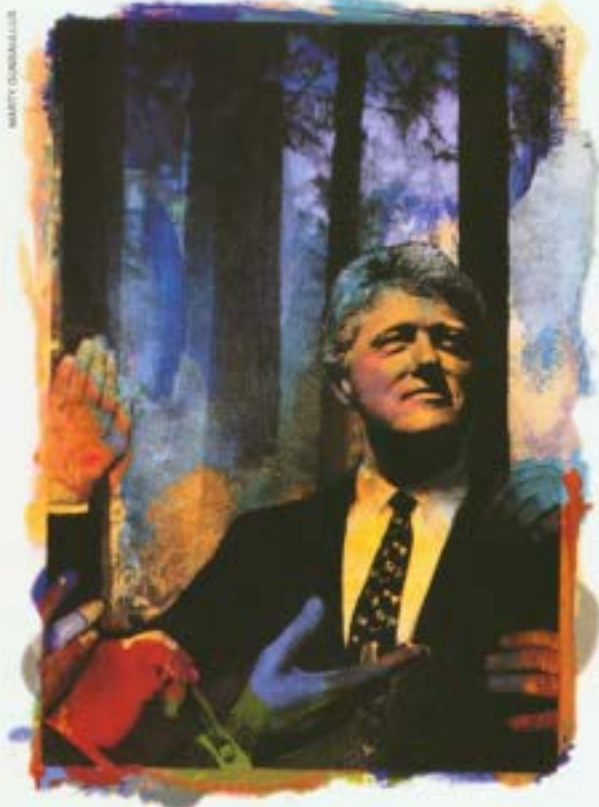
hind by the Bushmen. The California Desert bill, for instance, was stymied by that state's former senator John Seymour; with two sympathetic California senators now in office, that legislation should soon be ready to sign. The 1872 Mining Law was protected by a handful of western senators, and this carcass of cowboy capitalism can now be decently interred. (See "Fields of Dust," page 50.) Environmentalists and the National Taxpayers Union were blocked in their effort to eliminate subsidies for development on barrier islands and wetlands; Clinton can discontinue that support. The president can carve in stone Congress' temporary protection of our national parks and forests from strip-mining. The United States can finally sign the Biological Diversity Treaty negotiated at last summer's Earth Summit, and restore to the Global Warming Treaty the substance that Bush so painstakingly removed.

Even if the Clinton administration is successful in implementing an environmental agenda, the quality of the new Senate and House remains unknown. The special-interest lobbyists will be charging up Capitol Hill bearing the usual gifts, and we can't tell how the new members of Congress will respond to the tired arguments of the past—that tougher auto-efficiency standards will cost Detroit jobs, that saving ancient forests means losing logging communities, that environmental safeguards would necessarily hamstringing the free-trade agreement with Mexico.

But the American voters have, by electing Bill Clinton and Al Gore, already rejected those arguments. Environmentalists are ready with a vision of a sustainable future, and after many long years, we now have access to the means to carry it out. ■

CARL POPE was recently named the Sierra Club's Executive Director.

Just a few quick things
on our list here,
Mr. President . . .



MARTY DOWNALLS



White Music

LYNN BAMA

In a mild January afternoon I look east and see a smoky haze entering the valley. It creeps slowly forward, fingering up the streambeds, climbing the ridges in wavy layers. As it arrives here the mercury, which was standing at 47 degrees, shrinks in its tube like a small animal curling up to hibernate.

By next morning it is 18 below zero, and the dry, granular snow of the Rockies is falling, drifting into the heart-shaped prints of deer, blooming coldly on the withered umbels of dill plants left standing in the garden, and building precise waves and tines of drift along the fence. As the snow flattens and erases my surroundings, what is left becomes the musical score for a landscape: the single note of a decaying pine against the ridge, the drum-beat lines of boulders.

A few days later the sky clears and the nighttime temperature plunges to

38 below. The river ice swells and buckles. Lumpy scar tissue forms along the edge of the shrinking open water, whose steam coats the bankside trees with brittle rime. In the house, ice grows on each window in a different design—flowering clouds of iridescent spangles, white thickets furred with spines like the twigs of nightmare rose bushes.

This composition in a minor key, with its long passages of haunting calm, holds me in its spell. My pulse beats more and more slowly, my mind turns inward on itself, to a far, white place of cold and peace and sleep.

I waken with a start as a mule deer

At the heart of winter
is a bewitching and
dangerous perfection

leaps into the yard. The coarse fur of her back is dusted with ice powder; steam from her breath has frosted the long hairs around her mouth and nose. Her slender legs and enormous ears seem impossibly fragile for these temperatures, but mule deer are resourceful: they know how to wait out a blizzard in the calm spot on the lee of a hill, how to rest on south-facing slopes warmed by the sun. In the worst of weather they retain the classic grace of dancers who have learned all the music of snow.

The next day blown streamers of white appear on the western peaks. The chinook, the warm wind that blows down the eastern slope of the Rockies, has arrived. Its progress through the wooded ridges is marked by sheets and explosions of drift; when it hits the valley floor the house shudders and the air fills with stinging clouds of ice crystals. As the temperature crawls back toward the freezing point, the shapes of browsing deer fade in and out of view in the smother. Despite all their wintry intelligence, for a few of them the thaw will come too late.

Walking in the hills in spring, I occasionally see what looks like the remnants of a drift in some sage-grown, sheltering hollow. When I get closer, though, I realize that it is not snow but a scatter of bones, the remains of an old winter kill. The skull and the spine— heavier than I would have imagined for such a slight animal—seem to persist the longest. There is sometimes a faintly pink hip joint gnawed bare by coyotes, or a pile of slender ribs. A slight breath of chill rises from these objects, a last pale cadence. I will have almost turned away before I notice all around them, grown up through them, the starry open faces of mountain phlox. ■

LYNN BAMA is a writer in Wapiti, Wyoming.



Better Homes in Gardens

MARC LECARD

In the middle of winter, homes are sealed tight. Attempting to cut down on heating bills and conserve both dollars and resources, householders insulate, weatherstrip, and install doublepane windows. But while keeping the cold out, we shut ourselves in with a surprising amount of airborne pollution.

The air in a typical home or apartment can be tainted by a vast array of carcinogens and toxics. Formaldehyde, benzene, trichloroethylene, and carbon monoxide are given off by appliances, furniture, building materials, and various common household products. Tobacco smoke contains most of these pollutants and more. Normal human respiration fills the air with bioeffluents, including noxious chemicals such as acetone and ethyl alcohol. The EPA has identified hundreds of volatile organic compounds inside tightly sealed, poorly ventilated buildings.

But don't hold your breath; cleaner air may be as close as your hanging planter. According to B. C. Wolverton, once a scientist at NASA and currently a private consultant on indoor environment, houseplants can help keep indoor air breathable. He has been investigating the use of plants as living air filters for more than 20 years; his research is an outgrowth of sealed-environment studies aimed at designing vehicles for space travel, in which the air would be endlessly recycled.

Wolverton found that some common houseplants had a specific appetite for toxics. Spider plants and Boston ferns had an affinity for formaldehyde;

They don't do windows,
but they're murder
on formaldehyde

peace lilies absorbed trichloroethylene; English ivy and chrysanthemums ate up benzene.

Since then, Wolverton has tested more than 40 plants for their ability to filter out pollutants. Among the most useful for the average householder, he says, are areca palm, golden pothos, Janet Craig, and corn plant. These are easy to grow indoors, require only low light, and are effective air-cleaners. He suggests using two or three plants for every 100 square feet of space.

Plants absorb pollutants through their leaves along with carbon dioxide in the process of photosynthesis; microbes in the soil around the root system (the rhizosphere) help break down the contaminants so that the plants can feed on them. In fact, the symbiosis between root system and microorganisms seems to be the most important part of the cleansing process. According to Wolverton, "Ninety percent of the work is done by microbes."

Houseplants can help clean sewage and wastewater as well as dirty air. Wolverton has designed and installed indoor filtration systems using low-light ornamental plants that pull in poisons from the air while bathroom wastewater (sealed off from the room) is directed through their roots; the water is cleaned up enough to be used safely on lawns and gardens. In the outdoors, he has used wetlands plants to treat municipal sewage and chicken-farm effluent, and is working on a pilot project that will cleanse incinerator emissions.

Wolverton predicts that someday all homes and offices will have indoor gardens built into them as biological air filters and waste treatment systems. By cutting ourselves off from the natural world, he says, we create an imbalance that puts us at risk. "People came late to planet Earth," he points out. "Plants and microbes were here first." ■

► For more information, see "Resources," p. 156.

A Creek Observed

HANNAH HINCHMAN

Teaching people who want to record something vivid in their journals and sketches necessarily involves a stream of words, words that define and explain and exhort, that structure exercises with specific goals and clearly outlined steps. Sometimes I use the words as ropes to snare and pull my students toward the emptiness of simply seeing things as they are. I'm always surprised at how much they resist that emptiness, how many things they mistake for it.

I take them out to Rose Creek, hoping they will return with some evidence of having actually been there. They are all here physically; they all sit down in the presence of the creek. I urge them not to stop at what they already know about creeks in general. I don't want the facts about water and its role on Earth—that is a poem of overwhelming magnitude that can't be fully understood until they have paid attention to Rose Creek.

My words keep pointing to the emptiness. "What do you mean?" the more candid ask. "Do you want me to write about what Rose Creek means to me, how beautiful it is and how it unites me

with all life?" I feel like an ogre when I say no, not yet. I want them to look at the actual creek, which includes but is more than its water, rocks, creatures, plants. Those categories are too limiting and too abstract. I would like them to discover interactions: water/stone, water/insect, water/light, plant/rock, plant/creature.

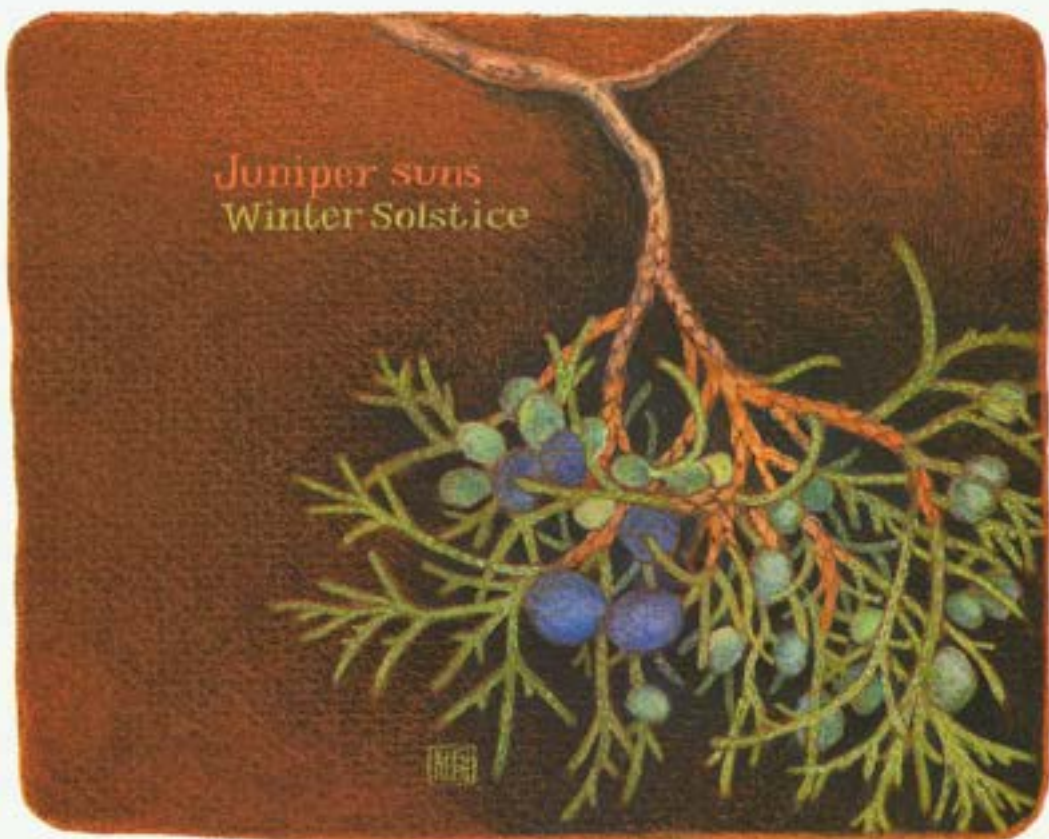
The shadows and shapes

that tell

the true story

Most of my students want to go straight for the abstract, to get at things like peace, unity, freedom. Confusion arises when I ask them to write about the nonabstract things—the concrete, specific, and actual. Then I ask them to go after the same things in their drawing.

It doesn't take long for the writing to turn away from abstraction, but the drawing, even if the student feels she is looking hard at an actual monkey flower, still floats off in the ether of generalization. She produces a vague plant shape, something she's devised to stand for a monkey flower. It's a kind of symbol, the same as the stick figure we use to stand for a person. When I ask her to try to draw the actual shapes of the leaves, as they appear to her eye, and the equally distinct shapes between the leaves, I find myself saying, in seeming contradiction, "You have to



see the abstract shapes." It's ironic that if one wants to draw the monkey flower to look "real," much time must be spent in the bewildering limbo of pure shapes, interlocking shapes, and pieces of light and dark that we commonly call "abstraction." The combined abstractions result in an image that we recognize.

Rose Creek can be observed, and symbols can be invented to convey it. But it can't be represented by symbols only. The monkey flower exists in space, with a blossom turned to face you, a blossom turned away from you, a blossom almost hidden by a leaf. Light falls across it and picks out edges and veins, throws into shadow a stem, a petal. Ripples, like flames, are embodiments of energy and can be drawn only by how they shift light, alter reflections, and cast or contain shadows. It is in learning to recognize conditions of light and the undefinable shapes of things that we get closer to being able to know Rose Creek.

I become abstracted while my students create a "Field Guide to What Water Does." When I check in, I find one man who has discovered that water striders only dimple the surface of the creek without breaking its tension, and create four sets of round ripples each time they move. He became curious about the big round shadows on the creek bottom, cast by the dimples. Under the drawing is a description, and a question: "If the strider doesn't break the surface tension, do its feet get wet?" A woman observing shadow tracery on a patch of creek-bottom sand realized she was seeing an image of otherwise invisible whorls and upwellings in the water itself.

Both students set about to draw these revelations, undaunted by thoughts of good drawing, bad drawing, or abstraction. I watch their hands move, pause, and move again as they translate the unmeasurable phenomena of Rose Creek. ■



Gathering Places

REED McMANUS

Maclaren River Lodge is one of five roadhouses scattered along the 135-mile Denali Highway, an unpaved road that dips and rolls along the base of the Alaska Range east of Denali National Park. Twenty years ago the lodge was strategically located on the main route to the park; since the opening of a paved highway between Anchorage and Fairbanks, its most common patrons are hunters and anglers and the occasional white-knuckled RV-renter. From time to time, mountain bicyclists like my group from the Sierra Club roll through.

Roadhouses draw in passersby with the efficiency of fly strips. You can fill up on gas, water, ice, and beer; get a hot shower for three bucks, a slice of pie for two-fifty, rivers of lackluster coffee. If your timing is right, the fish come from nearby streams, the pie filling from the berry bush out back.

Maclaren's facilities are (to put it

gently) well-used, but as inviting as your own living room. After slogging a bike up a muddy jeep trail, you think nothing of stripping off your raingear, hanging it from the rafters, dropping into the overstuffed sofa, and propping up your stocking feet on the coffee table. The massive woodstove, heavy wooden door, and small windows that barely let in the afternoon sun convey a sense of waiting out a storm that is ideal for conversation.

I talk with a woman who "just had to get away" from Homer, a microscopic town on the tip of the Kenai Peninsula. There's the recent arrival from Idaho who met and married a

■
Hunker down
and eavesdrop
on Alaskan dreams

Safety Sips

MICHAEL CASTLEMAN

local miner, and plans to spend her first winter in Alaska in a rented trailer beside a frozen river. (I hear her tell her story several times; while the details stay the same, her nervous laughter seems louder with every replay.)

There are the Germans: a couple on a five-month bicycle tour through North America, the family from Hamburg in their lumbering rental RV, the Mercedes-Benz mechanics tending to the four-wheel-drive vehicle they had crashed two days after air-freighting it from Frankfurt.

At a corner table sits the ubiquitous retired American couple, as common here in summer as the bald eagle, and the Southern California teachers who'd really rather be full-time fly-fishermen.

And then there's our instantly recognizable group of cyclists, our bright, tight-fitting togs conspicuous in the Land of Plaid Flannel. Still, our mud-splattered bikes render us respectable even to Alaskans, who generally measure toughness in terms of how high one's truck sits above the ground. I hesitate, however, to launch into a Sierra Club screed about what should and shouldn't be done in the Far North, though I'm armed with literature about plans for a new hotel in Denali (we don't like it), and the bulldozing of a road along the Copper River (we're against that, too). Better to lie low and enjoy the pie.

Fellow cyclist Dick from Santa Fe breaks the fabric barrier when he befriends fishing-guide Red over a series of cutthroat horseshoe matches. Dick holds his own in spite of his Lycra, and the next day Red takes us upriver to a fishing hole where we catch 29 grayling, the makings of a dinner feast.

Of course, any concerns we have about not fitting in are ours alone. Our highest compliment comes from a lodge-keeper at the eastern end of the Denali Highway: "Hey, we like bicyclists. You guys are polite—and you're always hungry." ■

While no one is likely to come down with cholera after imbibing from the U.S. water supply, the nation's most popular beverage is by no means pure. The General Accounting Office reported last year that many community water systems (primarily smaller, rural ones) are contaminated by pesticides, heavy metals, and carcinogenic chemicals. Indeed, the Environmental Protection Agency considers exposure to drinking-water pollution one of its four top-priority human-health problems.

Millions of apprehensive Americans have either fitted their faucets with home water filters or abandoned municipal drinking water altogether. Between 1985 and 1990 gross revenues for the home water-treatment industry jumped 49 percent (and are expected to increase another 59 percent by 1995). Meanwhile, bottled-water sales have quadrupled in the last decade to

almost 2 billion gallons a year. While consumers no doubt believe these investments will contribute to their well-being, the truth is that they can end up with water more contaminated than that which issues from their taps.

According to the GAO, consumers are often frightened into changing their drinking habits by salesmen who speciously claim that the local water supply is contaminated, and that their product will protect the purchaser from cancer, birth defects, and genetic damage. Water-filter manufacturers and marketers in several states have been prosecuted for deceptive sales practices ranging from fraudulent in-home tests

Beat cancer!

Be young forever!

Don't drink that, drink this!



to gross overstatements of capabilities.

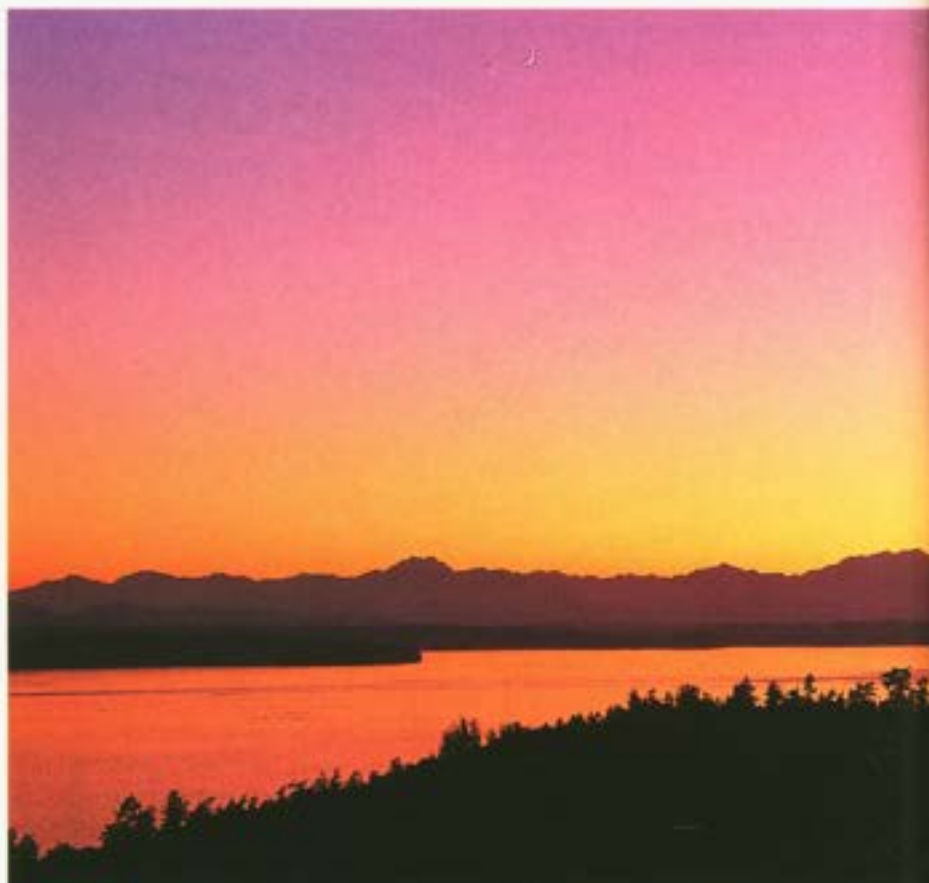
Those consumers whose water supply is in fact contaminated may be paying heavily for a false sense of security. The most popular water-treatment units, activated-charcoal filters, remove chlorine and many organic compounds, but do not remove all microorganisms and heavy metals, including lead. (Some filters actually *add* contaminants; in one test cited by the GAO, filters leached mercury into treated water, posing a "significant risk to public health.") Filter units must be changed regularly to work properly; the price of poor maintenance is the release of hazardously high concentrations of pollutants back into the water.

Despite these potential pitfalls for the consumer, the water-filter industry is poorly regulated. No single federal agency tests or approves its products, and only three states review test data. The industry trade association has developed performance standards, but only 54 of the estimated 600 manufacturers meet those criteria.

The water flowing from bottles is not necessarily any more reliable—here, too, regulatory laxity is the rule. Two years ago, Perrier recalled millions of gallons of its water because it contained benzene, a potent carcinogen, and recent investigations have found contaminants in many other bottled waters. (The Food and Drug Administration, responsible for testing bottled waters, "tries" to inspect bottled-water plants once every four years.)

So what's a thirsty consumer to do? Don't be a sucker for pure-water hype. No matter what kind of water you drink, have it tested by an independent laboratory. (One lab in Ohio will test your tapwater for some 93 pollutants.) Once you know how pure, or impure, your water is, you can make informed decisions about how to satisfy this most basic of your body's needs. ■

► For more information, see "Resources," p. 156.



Bread Upon the Waters

BRENDA PETERSON

"Seagulls memorize your face," the old man called out to me as he strode past on his daily walk. I stood on the seawall feeding the flock of gray-and-white gulls who also make this Puget Sound beach their home. "They know their neighbors." He tipped his rather rakish tweed motorcap and kept walking fast. "Can't let the heartbeat stop," he explained.

I meet this man many days on the beach. We rarely talk; we perform our simple chores: I feed the seagulls and say prayers, he keeps his legs and his heart moving. But between us there is an understanding that these tasks are as

important as anything else in our lives; maybe they even keep us alive. Certainly our relationship with each other and with this windswept Northwest beach is more than a habit. It is a bond, an unspoken treaty we've made with the territory we call home.

For ten years I have migrated from beach shack to cabin, moving along the shore like the Native tribes that once encircled all of Puget Sound. But unlike the first people who loved this wild, serpentine body of cold water, my encampments have changed with the whim of my landlords rather than with the seasons. Somehow mixed up in my



blood of Seminole, Swede, and French-Canadian Indian is my belief that I may never own land even if one day I might be able to afford it. Ownership implies possession; as much as I revere this inland sea, she will never belong to me. Why not, then, belong to her?

Belong. As a child the word mesmerized me. Because my father's forestry work moved us every other year—from southern piney woods to soaring Montana spruce to High Sierra fir—the landscape seemed in motion. To *be long* in one place was to take deep root like other settled folk, or like the trees themselves. After I have lived a long

life on this beach, I hope that someone might someday say, "She belonged here," as much as the purple starfish that cling to rock crevices covered in algae fur.

The Hopi Indians of Arizona believe that our daily rituals and prayers literally keep this world spinning on its axis. For me, feeding the seagulls is one of those everyday prayers. When I walk out of my front door and cross the street to the seawall, they caw welcome, their wings almost touching me as they sail low over my shoulders, then hover overhead, midair. Sometimes if it's been raining, their feathers flick water droplets onto my face like sprinklings of holy water. The brave fliers swoop over the sea and back to catch the bread in their beaks inches above my hand. Then the cacophonous choir—gulls crying and crows *kak-kak-ing* as my

special sidearm pitch sends tortillas whizzing through the air, a few of them skipping across the waves like flour frisbees.

I am not the only neighbor who feeds these gulls. For the past three years, two afternoons a week a green taxi pulled alongside the beach. From inside, an ancient woman, her back bent like the taut arch of a crossbow, leaned out of the car window and called in a clear, tremulous soprano. The seagulls recognized the sun-wrinkled, almost blind face she raised to them. She smiled and said to the taxi driver, "They *know* I'm here."

It was always the same driver, the same ritual—a shopping bag full of day-old bread donated by a local baker. "She told me she used to live by the sea," the driver explained to me once. "She don't remember much else about her life . . . not her children, not her husband." Carefully the driver tore each bread slice into four squares the way the woman requested. "Now she can't hardly see these birds. But she hears them and she smells the sea. Calls this taking her medicine."

Strong medicine, the healing salt and mineral sea this old woman took into her body and soul twice a week. She lived in the nursing home at the top of our hill, and every time I saw the familiar ambulance go by I prayed it was not for Our Lady of the Gulls.

This fall, when wild hurricanes shook the South and drought seized the Northwest, the old woman stopped coming to our beach. I waited for her all autumn, but the green taxi with its delighted passenger never came again. I took to adding two weekly afternoon feedings to my own morning schedule.

■
**Memories of home
that feed,
then fly away**

These beach meetings are more mournful, in memory of the old woman who didn't remember her name, whose name I never knew, who remembered only the gulls.

Not long afterward my landlady called with the dreaded refrain: "House sold, must move on." I walked down to the beach and opened my arms to the gulls. With each bread slice I said a prayer that Puget Sound would keep me near her. One afternoon I got the sudden notion to drive down the sound. There I found a cozy white cottage for rent, a little beach house that belongs to an old man who's lived on this promontory since the 1940s. A stroke had sent him to a nursing home, and the rent from his cottage will pay for his care.

Before I moved one stick of furniture into the house, I stood on the beach and fed the gulls in thanksgiving. They floated above my head; I felt surrounded by little angels. Then I realized that these were the very same gulls from two miles down the beach near my old home—there was that bit of fishline wrapped around a familiar webbed foot, that wounded wing, and the distinct markings of a young gray gull, one of my favorite high fliers.

Who knows whether the old man was right? The seagulls may have memorized my face and followed me—but I had also, quite without realizing it, memorized them. And I knew then that I was no newcomer here, not a nomad blown by changeable autumn winds. It is not to any house, but to this beach I have bonded. I belong alongside this rocky inlet with its salt tides, its pine-tiered, green islands, its gulls who remember us even when we've forgotten ourselves. ■

BRENDA PETERSON'S most recent books are the novel *Duck and Cover* (Harper-Collins, 1991) and a collection of essays, *Nature and Other Mothers* (Harper-Collins, 1992).

Is Smokey Sacred?

The people call Smokey Bear. An excited murmur ripples through the courtroom. Slowly, a hirsute forester shuffles forward to take the stand.

"The witness will please remove his hat in the courtroom."

"Sorry, Your Honor."

"Mr. Bear, you are an educational tool for the prevention of forest fires. Please then explain to the court why you saw fit to pose for an advertisement brandishing a chainsaw in a threatening manner . . ."

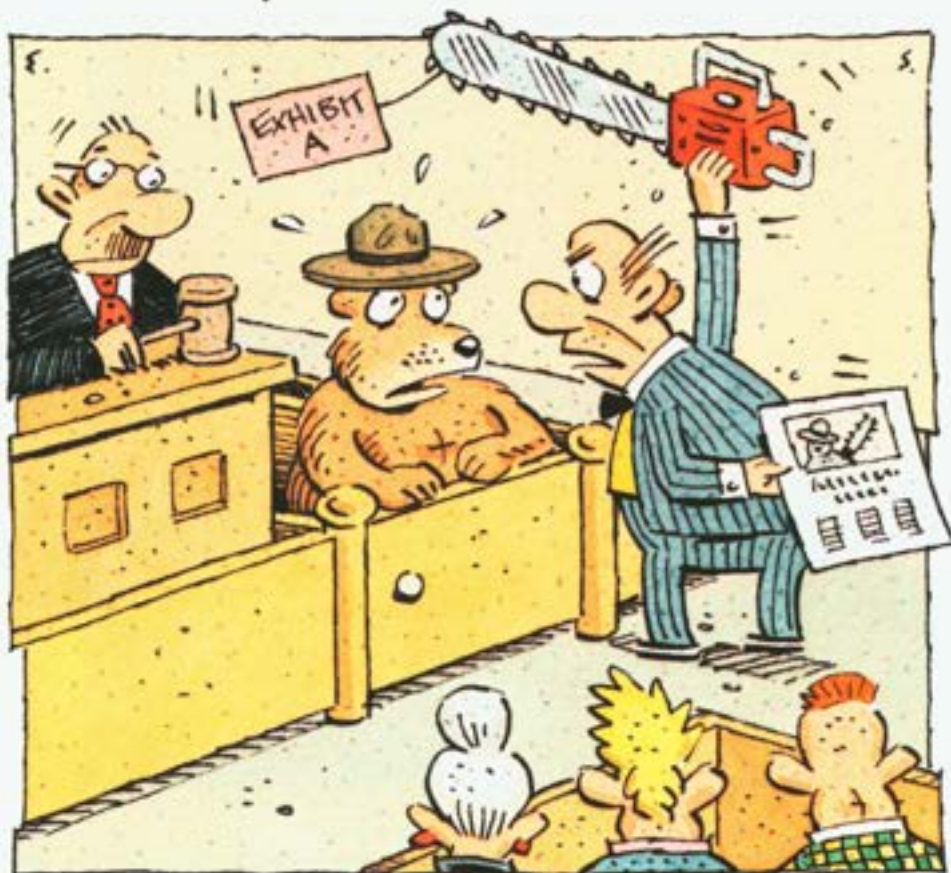
Stung by growing criticism of its money-losing, clearcutting brand of "forest management," the Forest Service is growing litigious. In recent months, environmentalists who use likenesses of Smokey Bear (there's no "the" there, insist the Feds) to criticize the agency have been threatened—in one case, by armed federal officers—with criminal prosecution. Free speech, according to the Forest Service, does not extend to taking Smokey Bear's image in vain; keeping him sacrosanct, government lawyers argue, is "an incidental restriction on First Amendment freedoms."

"Say it ain't so, Smokey!" implores an ad created by Americans for Ancient Forests (AAF) to protest clearcutting in the national forests; it features a sinister Smokey armed with a chainsaw. Shortly after the ad appeared, AAF Director Bob Chlopak received a cease-and-desist

warning from Forest Service Chief Dale Robertson himself, threatening to see him in court "if continued unauthorized use should occur."

"It is not we, but the Forest Service, who has put a chainsaw in Smokey's hands," Chlopak wrote in reply. "It is the Forest Service which has systematically encouraged the clearcutting of our last remaining ancient forests in California, Oregon, and Washington. If Smokey had standing, he just might seek to enjoin the Forest Service from these anti-preservation policies. What is needed is more public awareness and robust debate on these issues, not the threat of lawsuits designed to suppress such debate."

The Forest Service insists that Smokey is the property of the U.S. government, and that "the commercial magnetism,



*The art on this page
is not meant to prevent
forest fires. So sue us.*

■ ■ ■

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effectiveness, and value of the Smokey Bear symbol can be maintained only by ensuring its limited use." If people see Smokey and think "clearcut," the argument goes, they will be less disposed to buy the T-shirts, mugs, and other paraphernalia that net the Forest Service \$70,000 a year in licensing fees. Unauthorized, unlicensed use of Smokey Bear, by this logic, "in effect constitute[s] theft of government property."

In Kentucky's Daniel Boone National Forest, officials went to unusual lengths to protect that property. The trouble there began last spring—on John Muir's birthday—with a small demonstration at Forest Service headquarters by Earth First! and Heartwood, a regional environmental group that focuses on forestry issues. The grassroots group Appalachia Science in the Public Interest (ASPI) helped with publicity for the protest, which included a leaflet with a picture of Smokey in front of a field of stumps, holding a sign saying "Only you can stop the Forest Service!"

The agency responded by closing its office for the day, calling out the police, and threatening ASPI with criminal prosecution for "alteration of the Smokey Bear symbol and/or use of Smokey Bear for other than fire prevention purposes." In addition, Region 9 Forest Supervisor Richard Wengert tried to use the Smokey incident to isolate Heartwood from the "mainstream environmental groups" (a goal set forth in a 1991 Region 9 planning document). He wrote to the Kentucky congressional delegation, reminding them that Heartwood, together with the Sierra Club and then-Indiana Representative Jim Jontz, had put a stop to logging in southern Indiana's Hoosier National Forest.

"Their goal is to stop resource management on the Daniel Boone National Forest," Wengert noted darkly, "with the ultimate goal being preservation." Heartwood, he also warned, "is now affiliated with the radical terrorist group Earth First!"

(While admitting to the charge of intent to preserve, Heartwood coordinator Andy Mahler disputes Wengert on two counts. "Heartwood is not affiliated with Earth First!," he says, "and Earth First! is not a radical terrorist organization.")

Wengert went on to deplore "the Sierra Club's alignment" with the troublesome protestors. As evidence, he included a reproduction of the offending Smokey leaflet, crudely altered to include the Sierra Club as a sponsor of the demonstration. Writing to Sierra Club Cumberland Chapter Chair Wally Mastropaolo, Wengert referred to "Flyers . . . circulated indicating that Sierra Club was cosponsoring the Earth First! / Kentucky Heartwood demonstration. . . . We believe we have reason for concern about the future of our relationship. In my opinion any organization which is aligned with these radical elements will also lose the respect and confidence of our elected officials."

Mastropaolo was outraged. While the Cumberland Chapter does not happen to have any formal association with the protestors, he wrote in reply, "it will continue to exercise the right to maintain contact with any organizations it so chooses." Mastropaolo also noted that the only copy of the altered flyer connecting the Club with the demonstration had been provided by Wengert's staff.

The Forest Service is equally touchy about sacrilegious images of its logo, the letters "US" with a stylized conifer between them. In the California timber town of Quincy, a shop that sold T-shirts of the emblem with the tree cut down got a visit from a Forest Service special agent, who told co-owner Sara Farrar that selling the satirical insignia could earn her six months in jail, a \$250 fine, or both.

Farrar's attorney, Pete Hentschel, says that the statute protecting federal logos is intended to cover only those situations where someone is trying to deceive the public. "It's not like someone was running around in this T-shirt at a campground trying to collect fees," he says. The Forest Service now de-

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a child so far away
could bring me
so much joy!"*

Soffia Polhemus
Save the Children Sponsor
Kearney, Nebraska



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"When I wrote to Ana, she wrote back. Five years' worth of her letters is proof enough for me that we've made a real difference in her life!

"We like how Save the Children makes our contributions work with other sponsors' rather than just giving handouts directly to individual children. The field reports *show* us how we've helped Ana's own village give her the things she needs.

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| <input type="checkbox"/> American Indian | <input type="checkbox"/> Middle East |
| <input type="checkbox"/> Asia | <input type="checkbox"/> South America |
| <input type="checkbox"/> Caribbean | <input type="checkbox"/> United States |
| <input type="checkbox"/> Himalayas | |

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clines to pursue the matter further, saying that it has more important things to do.

"Why didn't they have more important things to do on the day they decided to make a big issue out of this in the first place?" asks Hentschel.

The controversy may finally be settled in Seattle, where Lighthawk, an organization supplying airborne support to a variety of environmental groups (it bills itself as "the Environmental Air Force"), decided to press the issue. After receiving the now-familiar threat from Dale Robertson after running the "Say it ain't so, Smokey" ad in a number of small newspapers, Lighthawk enlisted the help of the Sierra Club Legal Defense Fund to get the U.S. district court to state, once and for all, whether Smokey is an acceptable subject of political satire.

"This case is about how the federal government tries to choke political debate," SCLDF lawyer Victor Sher declared. "Unfortunately for the Forest Service, the United States Supreme Court has spoken definitively (and often) on this issue. The Forest Service says it can rely on its statutory interest in 'Smokey Bear' to quash political debate. The Constitution and the Supreme Court say that 'ain't so.' So should this court."

A decision is expected within weeks. —Paul Rauber

A Road Runs Through It

*Where most of us see
wilderness, the BLM
sees a highway.*

The Moab Jeep Trail in Utah is in danger of becoming a memory," warns the newsletter of the Sahara Club ("dedicated to fighting eco-freaks and keeping public land free"). "The Nature Nazis can't

stand the fact that families can take their jeeps and 4x4s across this famed trail, and have been highly agitated in their efforts to get us out.

"But a pre-Civil War federal regulation just might be the answer to the problem. Check this out: if a county or state can document that a road or even a donkey path was built across unreserved federal land prior to 1976, it can claim an RS 2477 right of way. Wow! This opens up the door to all sorts of roads and trails to recreation use. The Moab Trail could be officially designated as a county road, thereby bypassing federal regulations. The eco-freaks are crying in their beer. . . ."

It took them a while to figure it out, but the Kawasaki cowboys have now seized on another antique piece of legislation to swing like a tire iron against wilderness designation for public lands. (The classic blunderbuss being, of course, the 1872 Mining Law—see "Fields of Dust," page 50.) Perhaps the shortest law on the books, Revised Statute 2477 consists of a single sentence: "The right-of-way for the construction of highways over public land, not reserved for public uses, is hereby granted." Way back in great-great-grandma's time, RS 2477 was intended to guarantee prospectors access to their claims across public land not already classified as a park, military reserve, or the like. Today it guarantees local governments the power to block new wilderness areas. All they have to do is assert that a road of some sort once ran across the land under question. If the area has a highway through it, it can't very well be considered a wilderness, can it?

Revised Statute 2477 was repealed in theory by the passage of the Federal Land Policy and Management Act in 1976. But FLPMA left a loophole: "existing rights" would be exempted if the "highway" existed prior to 1976. Even if the area is now protected, the road takes precedence if it was there first. In Alaska, the result is that the Wally Hickel administration is finding old roads *everywhere*, including across Denali National Park and the Arctic National Wildlife Refuge. The governor

envision a 1,700-road network spanning the state's interior, opening it to industrial development. "When I get done with the map of Alaska," boasted Lieutenant Governor Jack Coghill, "I want it to look like someone threw a plate of spaghetti at it."

Wilderness obstructionists were given a further boost in 1988 by Ronald Reagan's Interior Secretary Donald Hodel, who established guidelines for interpreting the gnomonic statute as one of his last acts before leaving office. Hodel declared, for instance, that "highways" don't necessarily have to be for automobiles; the requirement can be equally met by a pack trail or dog-sled track. Similarly, "construction" merely means that someone has moved large rocks out of the way, or cleared some vegetation. Even the "passage of vehicles by users over time" will do.

"Under Hodel's definition," objects Sierra Club Utah Representative Lawson LeGate, "you and I could have gone out, driven up and down in a jeep a few times and, by golly, we'd have constructed that road! In the 1940s and '50s, all kinds of gruff guys with jeeps and geiger counters were running over the landscape here looking for uranium. Those were the first wheeled vehicles on that land, and the tracks have stayed for many, many years. I just don't understand how some prospector—who didn't even have to be from Utah—could establish a right-of-way for the county."

Logic, however, has not been the overriding consideration for the pro-development county commissions of Utah, who are using RS 2477 to "eliminate wilderness," as one commissioner bluntly put it. At issue are 2.5 million acres of virtually virgin mountain, desert, and canyon—the difference between the 3.2 million acres of Wilderness Study Areas already accepted by the Bureau of Land Management, and the 5.7 million acres of wilderness advocated by the Utah Wilderness Coalition (of which the Sierra Club is a part). County commissions all over the state are now rushing to encumber as much land as they can with phantom high-

ways. In southern Utah's Henry Mountain Resource Area alone, at the invitation of the BLM (the agency responsible for "unreserved" public land), two counties have filed 327 right-of-way claims; several thousand claims have been filed throughout the state.

Thanks to Donald Hodel, no burden of proof is imposed on these claimants, whose word is automatically accepted by the BLM. It is up to challengers to prove that the dirt track in

question was not "constructed," or that the construction came after 1976. Environmentalists have spent ten years in court on one case alone, that of Utah's famous Burr Trail between tiny Boulder and tinier Bullfrog—which is now being paved and promoted as a scenic road by Garfield County. Because of the legal roadblocks, only a handful of RS 2477 claims are being contested. "There ain't nobody out there to do the work," laments University of Utah law professor William Lockhart, who has

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represented the Southern Utah Wilderness Alliance for years.

As RS 2477 claims proliferate, land-management agencies are finding it increasingly difficult to plan for wilderness. Since no "sunset date" for right-of-way claims has ever been established, it's impossible to tell when a new claim might be made. As of now, RS 2477 is a monster truck rolling over the roadless wild.

Efforts to reform the law have thus far been blocked, primarily by the Alaska congressional delegation. That plug may have been removed by the state's solid Republican showing last November; the Clinton administration doesn't owe it a thing. The Sierra Club, the Utah Wilderness Coalition, and the Southern Utah Wilderness Alliance are calling for a moratorium on new RS 2477 assertions until Congress can decide if every mule trail is really meant to be a six-lane highway.—*PR.*

► For more information, see "Resources," p. 156.

Loggers' Free-for-All

*The nation's forests face
a remedy that's worse
than the disease.*

From Idaho's Panhandle to the Sierra Nevada, millions of conifers are turning brown and dying. The U.S. Forest Service proposes to cure these sick trees, weakened by drought and crawling with insects, the only way it knows how—by chain-sawing them to the ground.

One might think that it's better to cut a moribund tree than one that's thriving—and sometimes it is. But federal foresters' "salvage" plans involve more than cutting dead or dying trees. Like any other timber cut, salvage sales punch roads into hitherto roadless areas, compact and erode soil, wound watersheds, and fragment forests. In some of these sales, perfectly healthy

trees are thrown in to sweeten the pot. And dead trees are more vital to forest ecosystems than many people think. Ecologists have long stressed their value in streams and on the forest floor; recent research shows that dead wood provides homes for creatures such as carpenter ants and red-breasted nuthatches, which control the populations of the very insects now killing the trees.

Hiding behind crisis rhetoric, the Forest Service is largely ignoring those troublesome facts. Last September the Bush administration decided to speed up salvage sales by excusing from environmental review any that would harvest fewer than 1 million board-feet. To make things go even more smoothly, it barred citizens from appealing its rulings. As a result, many sales are being prepared without field visits to gather new data on wildlife or fisheries, and are being rushed from concept to contract in three months or less. With its regular timber business fettered by more than 80 separate legal challenges, salvage sales are burning

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adventure in the land of the midnight sun.
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- 1993 maybe
 1994

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 car tour bus
 plane Harley

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- at an RV park in a campground
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 & Breakfast

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We're not just talking toothpicks: national forests in the northern Rockies and on the West Coast are expected to yield more than 1 billion board-feet of salvage timber this year—roughly as much as is being tied up in court in the Pacific Northwest to protect the turf of the northern spotted owl.

The timber industry and its allies in the Forest Service argue that dead and dying trees should be cut quickly because they pose a fire hazard, and within a few years they will be too rotten to be milled into quality lumber. But salvage logging has more to do with board-feet and bucks than it does with fire prevention. Loggers want only the largest of the dead trees, and lobby for as many live ones as they can get. The timber companies are rarely asked by the Forest Service to remove the real fire hazard in western forests: the small trees and underbrush that have grown up during a century of official fire suppression.

Even before Bush moved to exempt

salvage sales, Forest Service officials were trying to sneak them past environmental inspection. For instance, the agency mapped six contiguous sales in the Grand Ronde watershed in northeastern Oregon, home to an endangered spring run of chinook salmon. Assessing each sale separately, planners concluded that none by itself would have a significant impact on the fish—even though they all drain into the same river, and 8 million board-feet of timber would be logged overall. Regional Forester John Lowe duly proceeded to exempt five of the six sales from appeal.

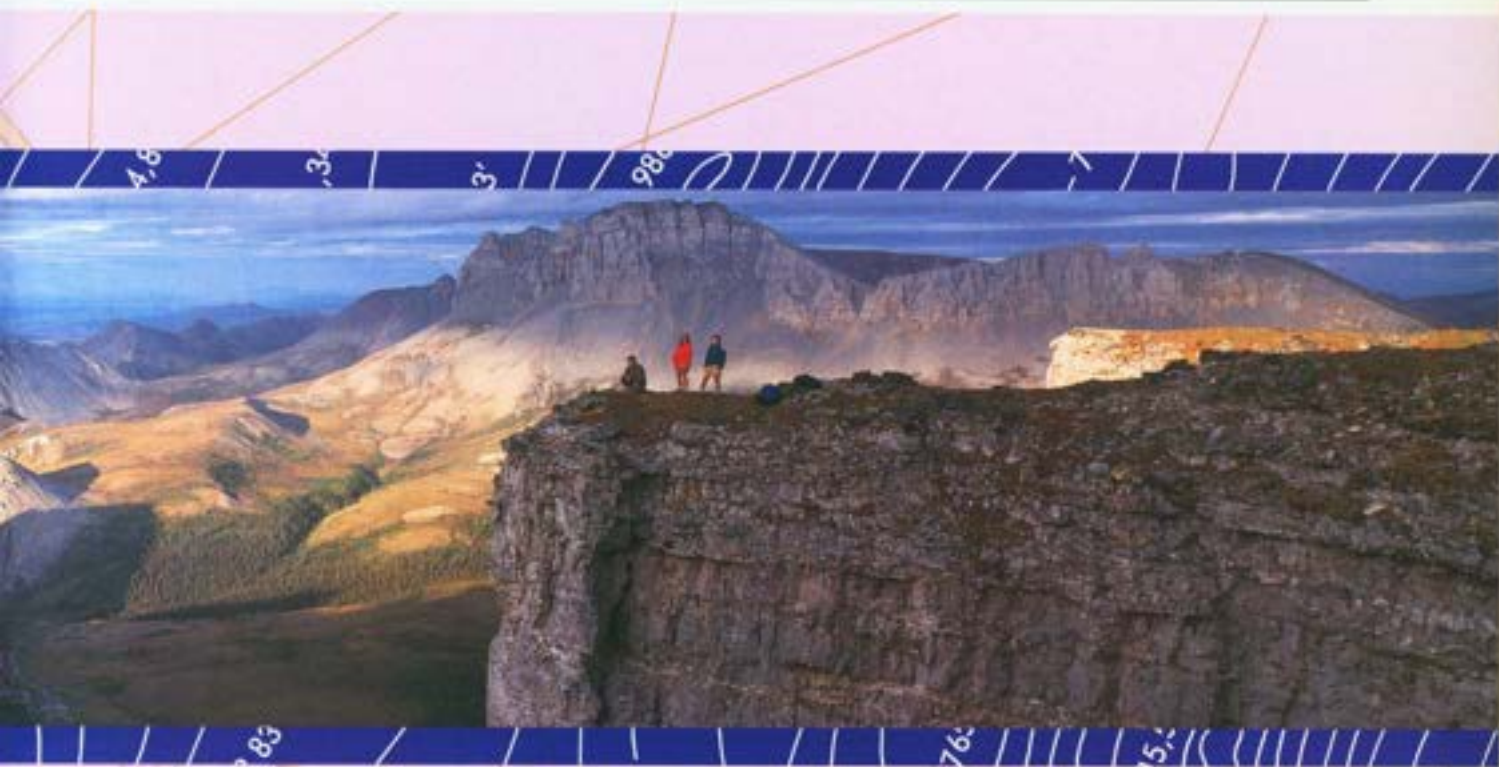
Real help for the damaged forests will not be as easy (or as lucrative) as the Forest Service pretends. It will involve clearing out fire-fueling undergrowth, however unprofitable. It will require allowing more small fires, like the ones that used to burn through western forests every decade or so, grooming parklike stands of healthy conifers; and it will call for more benign logging and grazing practices.

Some salvage sales will probably be inevitable. In Northern California's Klamath National Forest, conservationists and the agency agreed to strict criteria for such sales, banning logging near streams, prohibiting roadbuilding, and defining the conditions under which a tree may be cut. "We've had 14 small salvage sales, and they've been good ones," says Felice Page of the Klamath Forest Alliance, a local citizens' group that makes sure the Forest Service is abiding by the pact.

But this approach must be used with caution. "If you expect salvage logging to leave behind a landscape in better shape to restart the next forest, you're kidding yourself," says Neil Sampson, executive vice-president of American Forests, a Washington, D.C.-based conservation organization. "Those forests are continuing to deteriorate. We can't solve that by speeding up salvage sales—that's like a triage system where you treat only the dead."

—Seth Zuckerman

► For more information, see "Resources," p. 156.



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NO RIVER



WILDER

A scenic landscape of a lake with icebergs and snow-capped mountains at sunset. The sky is filled with warm, golden light, and the mountains are reflected in the calm water. The foreground is dominated by large, white icebergs floating on the lake's surface.

Floating the Tatshenshini,
through a world of ice and grizzlies,
past a copper mountain they call
Windy Craggy.



BY PAUL RAUBER

There is not a lot to do in the dreary Yukon town of Whitehorse—so named after the prancing rapids of the Yukon River, submerged behind the Schwatka Dam since 1959. Among the limited amusements available is collecting Stupid American Questions. Every summer, U.S. citizens encased in recreational vehicles swarm up the Alaska Highway with the determination of spawning salmon, pausing here only to purchase gas and postcards and to display their cheerful innocence of the natural world:

"Young lady, how do you reckon they keep that lake so blue?"

"Excuse me, how much does that mountain weigh?"

"What do you do with the boulders in the wintertime?"

More romantic misconceptions of nature are brought by the region's many German visitors, for whom the Yukon is forever stuck in the late 19th century. One Canadian tells of buying groceries in a small country store when a heavily armed, buckskin-clad German burst in, proclaiming "I want to kill a bear!" An incredulous outfitter at the Kopper King Bar relates an encounter with three Germans heading into the wilderness equipped only with a case of beer and a fishhook. While the Teutonic tourists rarely lose their dignity by asking silly questions, every year several of them manage to lose their lives.

Cluelessness, however, knows no national boundaries. "How much do they pay you members of Sierra?" asks the host of the bed and breakfast where I am staying. It turns out that Bruce (a retired engineer who had helped drown the Yukon's white horses) is under the impression that people are paid to belong to the Sierra Club by wealthy Yankee industrialists who don't want any competition from the Canadians. "Why doesn't Sierra give us a chance?" he demands. "Why not let the Yukon develop first, and *then* tell us to clean up, eh?"

Bruce and I are talking about Windy Craggy, a mountain neither of us has ever seen, located near the Tatshenshini River, where neither of us has ever been. This ignorance is general; taking advantage of it is a Canadian company called Geddes Resources, which intends to decapitate the 6,000-foot peak to make the largest open-pit copper mine in Canada. Bruce is in favor of the project, because it would give people in Whitehorse an alternative to working for the provincial bureaucracy, which is about all there is to do now. "Sierra" is skeptical: the mine could permanently despoil what is reputed (by the few who have actually seen it) to

be the most spectacular wild river in North America.

I'll soon be the judge of that myself, as I'm heading out the next morning to spend 12 days rafting down the Tatshenshini. I'm getting nowhere with Bruce, who thinks me as foolish as the Germans with their buckskins and fishhook, so I escape to my room to study the recipe for "Caribou or Moose Head Cheese" in the cookbook assembled by the Yukon Order of Pioneers (YOOP) Ladies Auxiliary: "Clean head. Boil with spices until meat comes away from the bone. Remove all edible parts . . ."

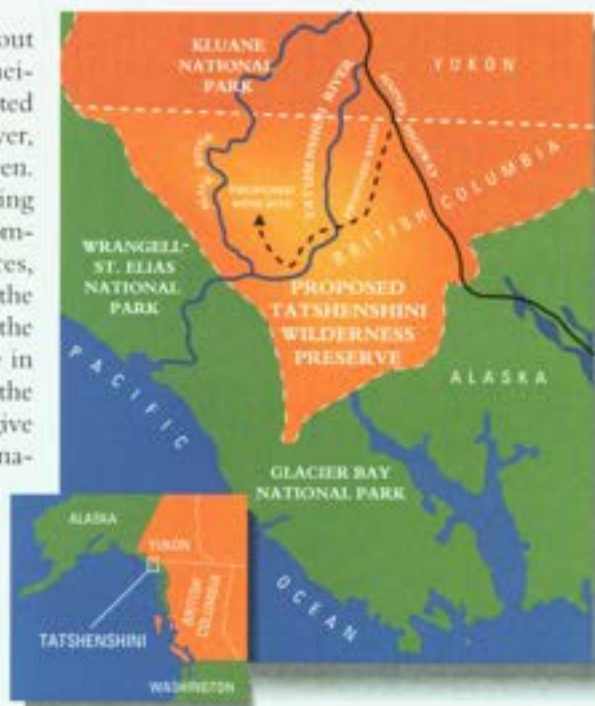
Stupid American Question: Which parts are those?

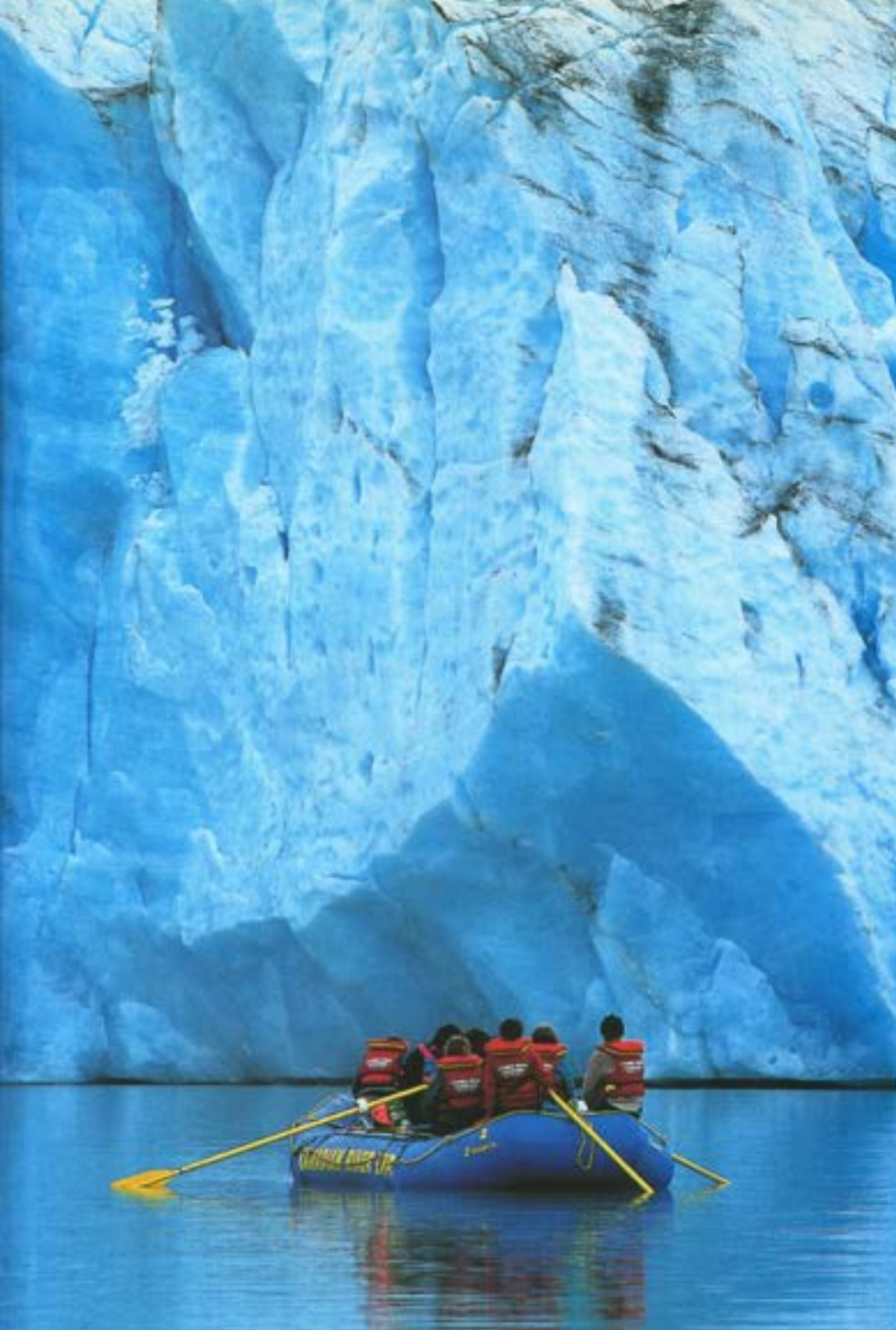


We put in near Dalton Post (named after Jack Dalton, 19th-century adventurer and scam artist), a tiny settlement near Kluane National Park on the RV route to Haines, Alaska—last chance for tabloids, telephones, or toothpaste until our disgorgement at Dry Bay, Alaska, 160 miles distant. There can be nothing tentative about entering the swift and muscular Tatshenshini; a case of beer carelessly let slip is swept out of sight in a moment. Launching our boats into the chalk-green waters, we give chase.

"We" are 17 adults, two hyperactive adolescents, and five good-natured guides, all of us floating briskly now through scrubby boreal forests of alder and spruce, snow-streaked mountains to the north and east, mighty river down the middle. Before it meets the Alsek River and pours through the St. Elias Range into the Pacific, the Tat will be joined by scores of tributaries adding runoff from the last Ice Age. What we see now is only a whisper of its power.

That full force is first unveiled in the Canyon, a narrow basalt defile that contorts the river into the liveliest whitewater of the entire journey. After a safety talk by bald-pated trip leader Jock Richardson that would have prepared us to raft the Grand Canyon in a bathtub, we enter an appropriately dizzying succession of holes, rapids, and "reversals," where walls of water flow upstream after bouncing off subsurface boulders. We fall to with the paddles in well-intentioned but





Icebergs calve from the Alsek Glacier directly into the river, posing novel hazards to rafters. Above left: Grizzlies use the Tatshenshini as a migration corridor between Glacier Bay and the interior.

largely ineffectual attempts to aid our oarsmen, emerging at last safe if soaked. Despite the finest water-repellent rain-gear, a wave over the top will always find its way in.

Drying out around a driftwood fire, we start to get acquainted. There is Al, a tax lawyer from Chicago who has never spent a night outdoors in his life; Jay and Earl, adventurous retirees from North Carolina; a Montessori teacher from

New Jersey; a couple of foresters from B.C.; two Canadian lawyers in love. Special guest stars are Ric Careless and Dona Reel, the nucleus of Tatshenshini International, a coalition of 50 North American environmental organizations, including the Sierra Club, dedicated to preserving the river. This trip is supposed to be a family holiday for them and Ric's daughter Sheena, but no sooner is the name "Windy Craggy" mentioned than Dona digs out the flyers and Ric unrolls the maps, pointing out where the mine tailings would be dumped on the glaciers, where the highway would bisect the most bountiful grizzly-bear denning ground in the world, where the slurry lines would cross salmon-rich streams, where the top of a mountain would vanish to reappear in Asian smelters.

We glide easily into the comfortable rhythms of a long river trip, the developed world receding as far psychically as it has physically. By the third day we cross the Yukon border, entering into far northwestern British Columbia, wherein lies the bulk of the Tatshenshini-Alsek river system. This obscure corner of Canada, shoehorned into the Alaska panhandle, is difficult to locate on many

maps, even for not-so-stupid Americans. There's not much to show up on a map; just 2.3 million acres of roadless, townless, unlogged, unmined wilderness. Also unprotected: this is Crown Land (equivalent to BLM land in the United States), ripe for development and preserved thus far largely by grace of its extreme inaccessibility. The only road is the Haines Highway through Dalton Post, and Haines is the nearest port. (Canada *could* claim an outlet on the Gulf of Alaska, if only the Grand Pacific Glacier on Glacier Bay would grow instead of shrink. Canadian engineers have actually studied the possibility of establishing a port there, but

the Ice Age cycle is working against them.)

The area's lack of protection seems almost an oversight—although a fortuitous one from Geddes' point of view. ("This isn't pristine wilderness," former Geddes president Gerald Harper once famously asserted. "It's barren land.") Bordering it on three sides are major national parks: Canada's Kluane to the north, and Alaska's Wrangell-St. Elias to the west and Glacier Bay to the south. If conservationists can defeat Geddes, the next step will be to protect the entire area as a wilderness preserve.

Together with the neighboring national parks, it would form the largest protected area on Earth: 23 million acres.

We have no need of maps, however. For us there is only one direction as we are flushed like smolt to the sea, our



progress attended by merlins, golden and bald eagles, mergansers with their punkish crests, arctic terns helicoptering over suspected fish. Gnawed stumps are everywhere, but it is a foolish beaver that dreams of damming *this* river. Beaching our boats for lunch, we send an enormous moose gallumphing away; on the mountains beyond our camp at Sediments Creek are sex-segregated mountain goats, nannies and kids on one slope, billies on the other. Garbo-like, mountain goats only want to be alone, spending three-quarters of their lives above the angle of

repose, the point above which loose stones (and less-sure-footed predators) will simply tumble.

Even so, we follow after, 3,000 vertical feet up a well-worn bear trail. (The concept of "switchback" is evidently unfam-



miliar to Canadian grizzlies.) Aspens along the way are scarred to an alarming height by climbing claws, inspiring vigorous admonitory hoots and shouts. "Yo bear!" is the standard exclamation, "Yo-gi!" and "Boo-Boo!" popular alternatives. As a Cal graduate, I find use for our old football cheer: "Roll on, you Bears!" Jay bays like a North Carolina hound dog. All of these methods, happily, are equally effective.

From the high ridgetop we can see as far back as the Canyon, and as far downstream as the O'Connor River Valley, where what appears to be a cloudbank proves instead to be the unexplored Tkope Glacier, our first hint of the iceworld to come. Closer at hand up Sediments Creek is a knife-edged horn mountain, circled by three eagles. (The romantic Germans, had they made it this far, would have envisioned a painting called "Das Aerie.") Scrambling back down through the heat and dust, we each drink rather more than our daily allotment of 1.2 beers, and assume our own angle of repose.

On slower days the guides can be talked into surrendering the oars for a piloting lesson. There is rather more to guiding an oarboat than might appear; far from simply drifting down the lazy river, it is a constant exercise in disaster avoidance, of identifying which rock, half-submerged snag, or sheer cliff-face the current is propelling you toward, and then rowing like hell to alter the apparent course of history. The trick is learning *which* hazard to worry about—not the boulder directly before you, as common sense might suggest, but the sandbar a hundred yards away. It's no wonder that, when need be, river rafters can adapt so readily to politics.

The Tatshenshini served for centuries as a trade route for the Tichone Indians. Apart from a hair-raising ride by British explorer Edward James Glave (accompanied by Jack Dalton) in 1890, it was not run by European-Americans until 1976. The much rougher Asek (Class IV-VI to the Tat's Class III) was first attempted by kayaker Walt Blackadar in 1971. "I'm not coming back," he wrote midway through, after an involuntary excursion up-

We're floating
briskly now,
snow-streaked
mountains to the
north and east,
mighty river
down the middle.



side-down under a glacier. "Not for \$50,000. Not for all the tea in China. Read my words well and don't be a fool. It's unpaddleable." Despite Blackadar's admonition, the Asek is now regularly run save for narrow "Turn-back Canyon," where the Tweedsmuir Glacier presses to the water's edge, and a helicopter portage is necessary.

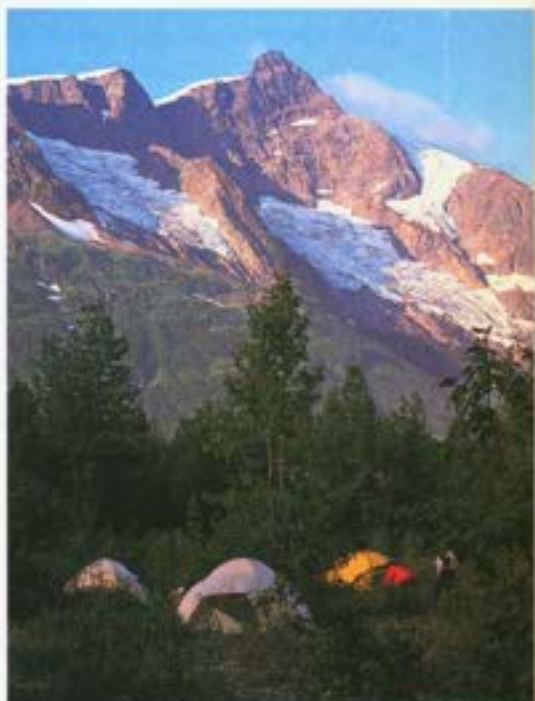
While romantic rafters and conservationists got their first inkling of the area in the 1970s, the mining engineers were already several steps ahead. They hit paydirt at Windy Craggy way back in 1958, initially with a gold strike (later deemed uneconomical), then with a fabulously rich field of copper ore—an estimated 300 million tons, or 1 percent of the world's total reserves. If 600 miners work around the clock 365 days a year, as Geddes plans, they will take 30 years to scrape it clean.

It's hard to talk about "clean," though, when the topic is copper. Exposed to air and water, copper sulfide oxidizes into sulfuric acid, which strips out poisonous heavy metals from surrounding rocks and acidifies whatever body of water it flows into. This process, called acid mine drainage, can poison watercourses for centuries; it has already killed 4,000 miles of rivers and streams in the United States alone, and costs the U.S. mining industry a million dollars a day to try to control. The potential dangers at Windy Craggy are compounded by the fact that its ore is six times more sulfurous than normal. Acid pollution of the Tatshenshini would devastate the salmon fishery at Dry Bay, as well as the bears, eagles, and other creatures whose lives depend on a living river.

Acknowledging that "the sensitivity of the local environment requires superior environmental management," Geddes promises "the latest and best technology" to control acid mine drainage. This technology will consist of dumping 124 million tons of tailings with the highest sulfur content in an artificial lake in a nearby valley, between earthen dams 150 feet and 300



Wildflowers on the Spit, downstream from Windy Craggy. Rising above the Tat, the St. Elias Range shelters mountain goats as well as occasional human visitors.



feet high, draining into the Alsek and Tatshenshini respectively. Putatively non-acid-generating rock would be dumped on the N Cirque and Marie glaciers. If someone makes a mistake and dumps the wrong kind of rock on the glaciers, or if a dam fails, or if the enormous open pit doesn't drain properly, it's adieu Alsek, goodbye Tatshenshini.

Five days out, the weather turns dank. Rather than swelling the river with runoff, the cooling puts the brakes on glacial melt, causing the water level to drop two feet overnight. Sandy riverbanks turn thixotropic: Jumping on the super-saturated soil sends it quivering like a waterbed, until the surface tension breaks and the quicksand sucks you in—not so quickly, however, that the merits of rescuing pesky children cannot be debated.

Still strong, the current rushes us along at 10 mph past Carmine Mountain, a massif of iron ore red as a new sore. As at Windy Craggy, the earth's wealth is close to the surface here. We enter a series of twisting narrows and major waves, with bald eagles perched on snags around each bend, one flying off with a salmon in its talons (headfirst, as always, for superior aerodynamics). The deeper we cut toward the coast the more imposing grows the landscape—mountains starker, trees taller, river fuller. The boreal forest yields to lush coastal growth, and soon we are surprised by the resolute passage of herring gulls flapping upriver.

Where the O'Connor River sweeps in from the east we pause to admire a negative: had it not been for the hazard-spotting ability of Ric Careless and a small number of rafters like Ken Madsen and Johnny Mikes of Canadian River Expeditions, a 700-foot bridge and slurry pipeline would now span this confluence. The road—"the proposed road," insists Careless, "the road that's not going to happen"—would hug the river valley for 12 miles, crossing 11 additional bridges before turning up Tats Creek to Windy Craggy. It would bisect the only winter range of Dall sheep in British Columbia, and what may be the highest concentration of grizzly-bear dens anywhere. Even if the Windy Craggy proposal were to fail, the road would still literally pave the way for more; Geddes exec Gerald Harper prophesied that the project "will open up an entire mining district to development." Geddes originally planned to truck its ore 150 miles to Haines—one truck every 12 minutes around the clock. When the Alaskans objected, Geddes proposed instead delivering the ore to port via slurry pipeline—

which would pass over our heads where we now stand.

"You could share this view with your children and grandchildren," says Jock as we survey the scene. "But if you don't do anything about it, this memory is for you and you alone."



We camp just past Henshi Creek in a tiny clearing wedged between river and forest, whose alleged impenetrability we test by trying to take a walk, comically guarded by young guide Colin Bunge self-consciously toting a canister of bear mace and a shotgun. We can get no more than 50 yards in any direction before being stopped by dense brush and latent common sense. To the east we pull up short at a well-worn bear scratching tree,

where tawny hair is stuck to the sap. To the west are tracks of a large grizzly in the mud, indicating that it had recently strolled through what is now our campsite. To the south is a fresh pile of bear scat and the most obvious bear den there ever was, a neat little cubby dug into a bank under a tree's sheltering roots. Even though it is obvious that Boo-Boo is not present (although the light doesn't reach *quite* all the way back in the hole), a warning buzz in the medulla oblongata nonetheless makes everyone keep a respectful distance, and, one by one, remember pressing tasks back at the camp. That night 11-year-old Matthew Robinson makes the mistake of taking Stephen Herrero's classic *Bear Attacks* to bed with him, and lies awake until dawn.

As it happened, Herrero himself was in the neighborhood, conducting the first detailed bear survey of the Tats Creek area. While he dissected bear scat far up the mountain, another team, led by Heather Hamilton of the Sierra Club of Eastern Canada, was conducting baseline biological research at the mouth of Tats Creek—another first. "In the 1950s, Glen Canyon was 'The Place No One Knew,'" says Careless. "We lost it. If we don't discover what's here, we'll lose it too."

We've brought an extra crate of food with which to reprovision the researchers—none too soon, it turns out, as their dinner the night before had consisted of nothing more than noodles with ranch dressing. Excited by their work, however, they scarcely seem to notice. "We'll probably know ten times as much as we did before after just three weeks here," says George Douglas, a botanist with the Conservation Data Center who has been working in the region for 20 years. (In contrast, the wildlife survey conducted by Geddes consisted of one naturalist surveying the area for a day and a half from a plane.) "You won't find any place in North America wilder than this one," Douglas says.

(On my return to Whitehorse, I finally en-

Guiding a raft is
an exercise
in identifying
hazards, and then
rowing like hell
to alter the
course of history.





The Tat is swollen by runoff from Walker Glacier and scores of others. Far left: Dona Reel and Ric Careless, leaders in the fight to save the river.

countered Herrero, a lank, rangy man with the distant air of someone who spends more time outdoors than in. He hypothesized that the Tatshenshini Valley, "the green line connect-

ing the coast to the interior," serves as an important migration route for bears traveling between Glacier Bay and Kluané. If so, their most likely path would take them up Tats Creek past the Windy Craggy Mine. Herrero's most sensational discovery, however, was the state of Geddes' preliminary development at the minesite. He found that six of seven major buildings, including the portal to the exploratory mineshaft itself, had collapsed over the winter due to the accumulation of snow. "Some of the Quonset huts looked like a great big bear had stood on them and squashed them," he said. Not a very comforting demonstration of the engineering abilities of a company that must guarantee the integrity of its impoundment pond essentially forever.)

"Does this river come out where it started?" To their own great amusement, the guides are back onto Stupid American Questions—as asked on the Vancouver ferry ("What altitude are we at?") and on the river ("Why are we always going downhill?"). The Tat is now a churning monster of gray-green lava; sediment crackles on the bottoms of our boats like popcorn. Behind us, a moose and her calf attempt to cross the torrent. The calf flounders and seems likely to be swept away until mom returns to swim alongside, breaking the current with her body.

Nearing the confluence with the Alsek, we are enveloped in a thick, frigid river fog. Occasional holes in the curtain reveal rocky peaks looming high over us on either side, glaciers curling like scarves around their shoulders. Otherwise we can scarcely see to the next raft. There is no sound save the rhythmic splash of oars, and I

Continued on page 146



Braulio Carrillo National Park, Costa Rica.

SWEET WAIST OF AMERICA



**NATIONAL TREASURE, BANANA PLANTATION,
OR LAST CHANCE TO FEED THE FAMILY?
FROM PANAMA TO GUATEMALA, WHERE LAND
IS IN SHORT SUPPLY, IT TAKES MORE
THAN A FENCE TO MAKE A PARK.**

BY MARY JO McCONAHAY

LEFT: TOM ILL; ABOVE, LEFT TO RIGHT: WALT BRONKHORST, MICHAEL AND PATRICIA FODDEN, SUE STRAWBAY

In the first light of day the mist has already broken above the tallest trees. A spider monkey 30 feet up reaches from the branches of a stately *ouala* to grasp the feathery tips of another tree, stretching her thin body across the airy abyss to make a bridge for her baby, who scrambles across to safety and disappears into the green. Small, ruby-red poison-dart frogs move like animated jewels, carrying tadpoles on their backs up the trunks of flowering *almendro* and *gavilan* to deposit them in the brief watery pools of a thousand bromeliads. White antheriums turn their slender heads in every direction under an open sky. Butterflies, some like fluttering orange squash blossoms and others transparent as glass, gently cut the warming air, while perched high above the trail a pair

of toucans soberly turn their heads side to side, bright, hard yellows catching the earliest sun.

For the moment, the poor and war-crippled communities of Central America seem remote from this patch of government-protected rainforest along Costa Rica's Sarapiquí River. An hour after dawn, however, a pesticide-spraying plane is already droning by on its daily run to the new banana fields nearby. The reality confronting park-makers in Central America is never very far away.

The Sarapiquí is one place Jim Barborak especially wanted me to see. I met Barborak—a 16-year Costa Rica resident, consultant to Wildlife Conservation International, former Ohio fur trapper turned professor and mud-booted trainer of park managers from throughout the hemisphere—early in my travels among Central America's national parks. He told me many things that would resonate in the following months. One especially: in Central America, there's more to making a park than putting a fence around the forest.

Here, people are most concerned with local issues, such as the need for farmland, or for developing resources to pay national debts. "North American environmentalists tend to be strident and to talk about future generations," said Barborak. "When you live in a crisis mode, you don't have the time to think that far ahead."

Other conditions conspire to focus Central American environmentalists on the present. In El Salvador and Guatemala, where everyday violence is a fact of life, rangers and conservation officials have been threatened with death for crossing hunting or lumber interests. Not one source I talked to in Guatemala

Braulio Carrillo National Park in Costa Rica. Above right, a Guatemalan peasant at the endless work of the poor; without his cooperation, Central American parks cannot survive. Bromeliads like the *Tillandsia cyanea* at right provide refuge for rainforest tadpoles.



would allow me to use his name—no one wanted “a high profile.” In late September, ecologist Marco Vinicio Cerezo narrowly survived an ambush by gunmen outside the headquarters of the environmental organization he directs, an attack Cerezo attributes to “someone who does not understand that our work is conserving nature and creating parks.”

The region’s model for that work is Costa Rica, which abolished its army 40 years ago and has no death squads. “Here we don’t have to be afraid of being killed because we’re conservationists,” says biologist Hector Gonzalez. That’s the good news. But to an increasing degree, Costa Rica does share its neighbors’ dilemmas: national debt and poverty, and the short-term answers brewed to address them.

Gonzalez lives in La Selva, a privately run forest reserve and jungle research station in the Sarapiquí region that, like other protected areas, is threatened by rampant development on its borders. One afternoon we ride out of La Selva in his jeep, along roads still under construction between new banana plantations, passing trucks loaded with huge, polished river boulders quarried for roadbed. The usually upbeat Gonzalez is grouchy about the “stolen” boulders. “We are traveling on the bottom of the Sarapiquí,” he says. “Can you hear the rapids under the tires?”

Gonzalez has been a conservationist for 15 years, ever since, as a high-school activist, he helped rally opposition to a proposed oil pipeline through a tropical forest. (He won that one.) He sees lots of room in Costa Rica for people to join the environmental movement, but fears that “apathy is taking over while politicians talk about ‘our wonderful natural resources.’”

On either side of the road we’re on, those resources are being razed by U.S., Venezuelan, British, and Colombian banana companies to make way for new fields and pre-fab bungalows for their workers. Ironically, the settlements bear the names of endangered trees such as *cocobolo* and *nogal*. Everything is so new here that sometimes when we stop to ask directions, workers cannot answer the question, “Where are we now?”

Two years ago this was rainforest. Today 17,000 acres



of uniform gray-green banana plantations drain fumigation residues into rivers that continue on through supposedly protected rainforest. (The rivers also carry the stray plastic bags from among the millions used to protect the hanging fruit. Sometimes the banana bags float all the way down to Tortuguero National Park on the coast, where they are swallowed by leatherback turtles that fatally mistake them for jellyfish.) Banana plantations are projected to cover some 60,000 acres here by 1995.

To walk in the powdery light of its cloud forests, or silently glide by dugout canoe through protected groves and coastal swamps, is to feel that the lush natural spaces of Central America are worthy of defense by any means. “The sweet waist of America,” as Chilean poet Pablo Neruda described it, is one of the most biologically diverse regions on Earth, a mixing ground for plants and animals from two continents. Although it covers only 0.5 percent of the world’s surface, it is home to 8 percent of all plant species and 10 percent of all animal species (including 15 percent of the world’s varieties of birds). Some 200 avian species that nest in North America spend the other half of the year here, among them whippoorwills, warblers, tanagers, and cuckoos. Millions of dollars are spent to save their habitats in Canada and the United States, while their rainforest homes go up in smoke.

This cradle of biodiversity is located within the borders of some of the poorest countries in the world: El Salvador, Nicaragua, Honduras, Guatemala, and Costa Rica. As Central American nations try to get back on their feet after a decade of violence that took 100,000 lives and saw national economies slide back 20 years, the environment is not a high priority. The civil wars are dying down, but the economic conditions that fueled the fighting have hardly changed. With the failure or rolling back of attempts at agrarian reform, most good land remains in the hands of very few, so



landless farmers carve new plots out of virgin jungle. To repay a combined foreign debt of \$20 billion, officials are more tempted than ever by schemes that promise dollar flow and entry into the global economy. The need for hard currency means concessions to international logging, mining, oil, and banana enterprises.

"Conservation will not become kinder and gentler in the future," Jim Barborak warned. "Where you have people now worrying over slash-and-burners and poachers, the big threats are coming from globalization of the economy and pressure to provide exports."

In recent months, grassroots groups and a few alarmed officials have narrowly staved off several of these new megathreats. In Panama, there was Texaco's proposal to drill off the Caribbean coast in an oil field that cuts into a marine park, indigenous reserves, and La Amistad, a park shared with Costa Rica. On Nicaragua's Atlantic coast, Taiwan initially won a contract to log 667,000 acres of rainforest—including indigenous lands—after President Violeta Chamorro appointed her son ambassador and Taiwan returned the favor with \$90 million in aid. And in Honduras, popular opposition scotched—for the moment, at least—a deal between the Stone Container Corporation of Delaware and President Rafael Callejas on a 40-year logging and mill operation to pulp millions of acres of the Mosquito Coast pine forest.

But with the region's expanding population (expected to double to 60 million in the next 18 years) becoming poorer every year, it is not likely that such seductive proposals can be resisted for long. In the last four years Central America has entertained 48 toxic- and hazardous-waste dumping offers, 14 of which were accepted or remain under consideration. In El Salvador, toxic ash from the United States has been used for road construction.

When I first visited La Selva, it was the end of the dry season. The screened mess hall still felt stifling, insects whining just outside. "We can't just 'conserve' and nothing else," Hector Gonzalez told me anxiously, leaning forward over his coffee. "We can't just conserve this park and forget those outside—there have to be ways to integrate the needs of the park with community needs. Protected areas are not isolated from the economic, social, and political environment in which they exist. The best approach comes from below, from those who live around the parks."

When I return to the Sarapiquí three months later, the rainy season is at its height and Gonzalez has moved from theory to action. We drive through a downpour and slog across muddy fields to a wooden cabin overlooking the two-tone confluence of the blue Sarapiquí and the Rio Sucio ("Dirty River"), which carries dark gray ash from Irazu Volcano Park.

"Hello, I'm Hector Gonzalez from La Selva," he says quietly to Carlos Harkin, a cowhand who is well respected by his neighbors. Gonzalez is organizing a two-day "Environmental Dialogue" of residents from remote areas who might want to learn about ecology and, more importantly, to meet each other and share concerns about soil degradation, land titles, or the need for health care. Harkin agrees to attend.

Gonzalez' goal is to create a human buffer of environmentally conscious peasants around the park. He gathers other commitments to attend his meeting—from men in high boots riding horses and wearing pistols, from a shirtless storekeeper at a steamy crossroads, from a peasant farmer in the town of San Julian at the end of a road of cinnamon mud. Of 45 families living there two years ago, the man tells Gonzalez, only 25 are left, the rest having sold out to "the Company," as the banana business is collectively known in these parts. At the edge of San Julian, yellow



The banana industry is responsible for degrading vast tracts of Central American forest. Above right, biologist Hector Gonzalez invites farmers living near protected areas to an "environmental dialogue." Far right, a brown-throated three-toed sloth.



tractors push the trunks of felled trees toward a crane that will load them onto the beds of waiting timber haulers, a familiar sight on the highways as they speed toward the mills. (Despite its deserved reputation for park creation, Costa Rica also has the highest rate of deforestation in the hemisphere; wooded areas outside the parks are projected to disappear in about eight years at current rates.) In the late afternoon Gonzalez and I head back toward La Selva, rumbling past stands of blazing ginger blooms and red heliconia. An occasional bright scarlet tanager flies in confusion across the road, appearing to search for a safe place to land.

Dressed in fresh jeans and surrounded by maps and charts, National Parks Director Alvaro Ugalde seems far removed from the soggy life in the field. From his modest office in San José, the Costa Rican capital, he oversees the most impressive park system in Central America: 12 percent of his country is protected within national parks and biological reserves (twice that if indigenous and forest reserves are included). Yet Ugalde is not a remote bureaucrat. Twenty-two years ago ("when we didn't even have the money to buy pencils") he and fellow pioneer Mario Boza virtually founded the park system. At the time Ugalde was younger than Hector Gonzalez is now, but he still looks at his job with fresh eyes.

"Our first vision was simply parks—I wish I had been thinking in terms of regions two decades ago," he says. "What we want to do now is not so much create new parks but create unified protected areas." Unless existing parks and reserves like La Selva can be linked, he says, providing biological bridges for animals and plants to flourish despite the surrounding development, life as it is inside the parks simply cannot be sustained.

Ugalde is on the hot seat when I visit. A few months ear-

lier he had announced the possible closure of the country's most popular park—beautiful Manuel Antonio National Park on the Pacific coast—because of the strain of too many visitors and too much tourist infrastructure. Now he has backed down, closing the 1,700-acre park only one day a week. This satisfies travelers but infuriates purists, who point to grimy creeks that mark a polluted border between a campground and the park, and shiver at the crowds of tourists—sometimes a thousand a day—wading across the inlet that leads to its entrance. The park is too fragile for the pressure of such numbers, they say.

Manuel Antonio National Park may be in danger of being loved to death, but a first visit to these few acres can still be an epiphany, the sort of astonishing experience that might make someone who would not venture a cloud-forest trail or a possibly snakey jungle path wake up to the need to conserve such natural spaces. ("You need to

get people hooked first to get them to support this stuff," Ugalde told me. "Get them inside parks and a little dirty, and 99 percent will get hooked.") On a path so soft you might walk barefoot (not recommended), basilisk lizards rise on all fours and sprint away like tropical roadrunners, while iguanas grown large and unafraid open their mouths, red and silent, perched on low, twisted trunks that reach toward the sand. White-faced monkeys lurch about in the branches overhead. Back from the beach a few hundred yards, I look up and watch the slug-like progress of a three-toed sloth. At low tide, even a child may wade unbuffeted amid glistening blue and yellow fish in turquoise coral pools.

"Biodiversity is not an easy sell," Barborak had cautioned back in the dry season. "A more reliable policy is to provide an economic rationale for creating parks." This includes the value of protecting water quality, preventing disasters by safeguarding ground cover, and, of course, attracting the tourist dollar. In the past, most visitors to these parks were Costa Rican nationals, but now foreign tourism is growing at a rate of 27 percent a year (versus 3 percent for locals).

The picture is much the same at Guatemala's heavily



visited Tikal, where Maya temples stand among miles of rainforest, and 70 percent of all visitors come from abroad. Because Tikal has been protected for two decades, big cats such as jaguar and ocelot, which have virtually disappeared from the rest of the Petén jungle, are on the increase again here; repeat visitors say they see more animals today than in the 1970s. If tourists can be kept from poisoning the wildlife (I saw hikers at Manuel Antonio feed monkeys everything from marshmallows to ham sandwiches as soon as the guards' backs were turned), they can be among park-makers' biggest assets. In Costa Rica and Guatemala the tourist industry has become one of the biggest earners of foreign exchange after coffee and bananas—a hard fact that translates into political clout.

Park-makers need that clout, and any other help they can get. Central American parks are often so small that, without cooperation from those who live on their borders, they are sure to be poached, planted, and smothered to death. "If we gain the hearts of those around the parks we have a good chance," Ugalde notes bravely—but his expression says that the outcome is far from certain.

"This is my land—there is no way they can take it from me," says Catarina Jimenez, a peasant squatter on park land in El Salvador. We are spending the afternoon on wooden chairs placed to catch the breeze outside her two-room adobe house "which cost us so much to build." She and her husband, José

Maria Rodriguez, have lived here 30 years, since Catarina was an 18-year-old bride. Of seven children, three died in this house. As we speak, it becomes clear she has resigned herself to the passing of her children (who died of "whatever it is children die from") and to the poverty that makes her laugh incredulously when I ask when she last ate meat. But when I mention the long-standing decision by park authorities that 40 families, including hers, be relocated, Catarina Jimenez digs in her heels. "No," she says simply.

The desperation in her voice is heard throughout Central America. In Guatemala, in the words of Uruguayan novelist Eduardo Galeano, the Indian majority subsists on plots "the size of a corpse." When politicians look to the vast Petén forest in the north they do not see a national treasure, but a safety valve for the land-hungry poor. Land takeovers are increasing in Costa Rica, and Honduran peasants regularly lay claim to the unused land of big owners at the start of the planting season, sometimes with violent consequences. In Nicaragua, as one conservationist told me, "peace is hell for the environment"; the end of war means that vast tracts of the biggest primary forest in Central America—near the recently conflicted border areas with Costa Rica—have become fair game for homesteaders, including ex-combatants for whom the bankrupt government has no employment alternatives. Why should Catarina Jimenez move away from her one chance at survival for the sake of conservation, a concept that she doesn't even understand?

Homesteading, after all, is an honored tradition in Central America; the squatter who "improves" land (that is, who clears it for planting by cutting down trees) increases the legal weight of his claim. If parks are to grow in number in



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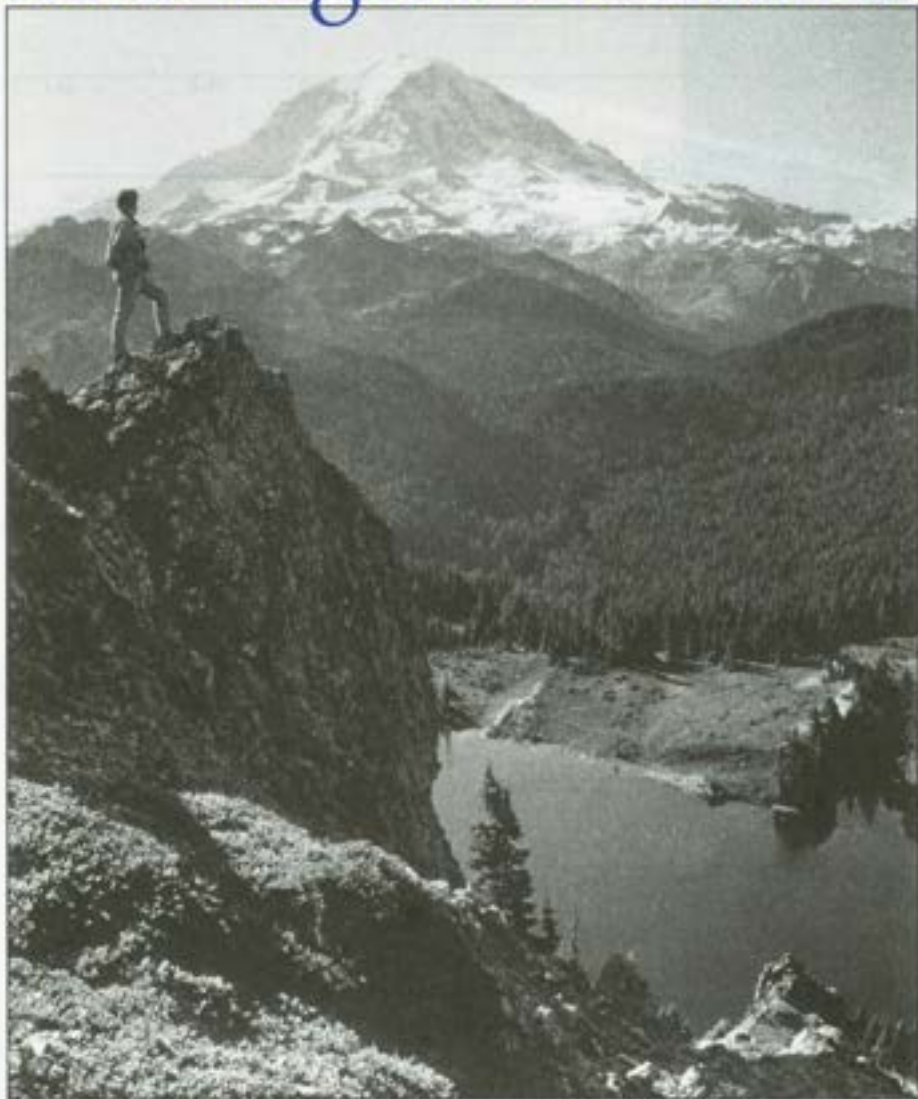


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Central America, or even remain part of the scene, the questions of land and the rural poor—high among the issues that led to the wars of the 1980s—must finally be faced.

But there is no consensus. There are those, like the U.S. conservationist whose organization has spent millions here to save species, who bristle at the idea of “making sure peasants are happy.”

“Conservationists can’t be expected to take care of everyone on Earth,” says this hard-liner, who asked not to be identified. “In our social and human concerns we’ve abandoned the goddamn parks, and we’ve *still* got unhappy *campesinos* and disappearing plants and animals.”

Then there are those like Hector Gonzalez. Within two weeks of our trip through the Sarapiquí, the residents he first brought together had met several times. They had a common complaint: deforestation (mainly by “the Company”) was degrading their water, and they worried about poisons. This put them in the same camp as those trying to save the parks. Village groups asked Gonzalez for environmental education sessions, and by late in the rainy season peasants themselves began drawing up a formal proposal to present to the government, asking for cuts in pesticide use, help in developing ecotourism, and recognition of the economic value of the forest.

A few weeks after our muddy jeep trip I talk to Gonzalez by phone; he sounds more animated than I’ve ever heard him. He will be moving out of La Selva, he says, taking a small house in a settlement to “learn from the community what makes them want to organize—to rescue this process

Above, Catarina Jimenez and her mother, Dora Fuentes, at their home inside El Imposible, one of two national parks in El Salvador. Opposite, a dussia tree in Costa Rica’s Corcovado National Park; an ocelot at Tikal in Guatemala.

of conservation and making parks.” His life inside the park was an enchanting scene out of *The Emerald Forest*, but Gonzalez calls the move away “a moral obligation.”

Ugalde has carefully considered to what extent conservationists must become social reformers in order to save their parks. “I’m not in charge of the social and economic development of the country,” he says, a steely look coming into his eyes. Nevertheless, he admits it does sometimes fall to the park service to demand that the government help create stable communities around the parks, by bringing in health care or granting land titles. (Such actions are more likely in Costa Rica than elsewhere in Central America, where the word of a single colonel with an interest in the status quo outweighs those of any ten park officials.) The director pauses, and sums up the local reality: “Society has been very unjust in the distribution of well-being,” he says. “It has pitted the poorest of the poor against nature.”

Nowhere is this clearer than in El Salvador, the most denuded country in the Americas. With a territory the size of Massachusetts and a population as dense as India, El Salvador has all of two national parks. One, part of a trinational cloud forest, is called Monte Cristo. The other

Continued on page 153

FIELDS DUST

NOT YET CONSIGNED TO HISTORY,

HARDROCK MINERALS—mostly metals such as gold, zinc, silver, copper, and lead—are pulled from the earth by corporations that can literally move mountains. These mining behemoths have replaced the grizzled forty-niner's pickax and shovel with megatons of explosives, cyanide-laced ponds, and machines that can

gnash a thousand pounds of earth in a single bite. In the process of changing landscapes into moonscapes, they spew out more solid waste each year than all other industrial and municipal sources combined.

For a pittance, our government has given miners in this country title to some 3 million acres of what was once public land. Yet

the ground rules of mining remain essentially the same as they were 120 years ago, when President Ulysses S. Grant signed the General Mining Law of 1872. This anachronistic statute invites hardrock miners to take their pick of (and to) more than 400 million acres of public lands managed by the U.S. Forest Service and the Bureau of Land Management. Miners can either extract the minerals for free and give the land back, or "patent" the claim—

THE 1872 MINING LAW

STILL SCARS THE WEST

that is, win title to land and minerals alike for no more than \$5 an acre, a \$100 investment in the claim, and evidence of a valuable mineral deposit. In an age of multi-trillion-dollar national debts, the 1872 Mining Law is not only a frontier-era throwback, but a taxpayer giveaway as big

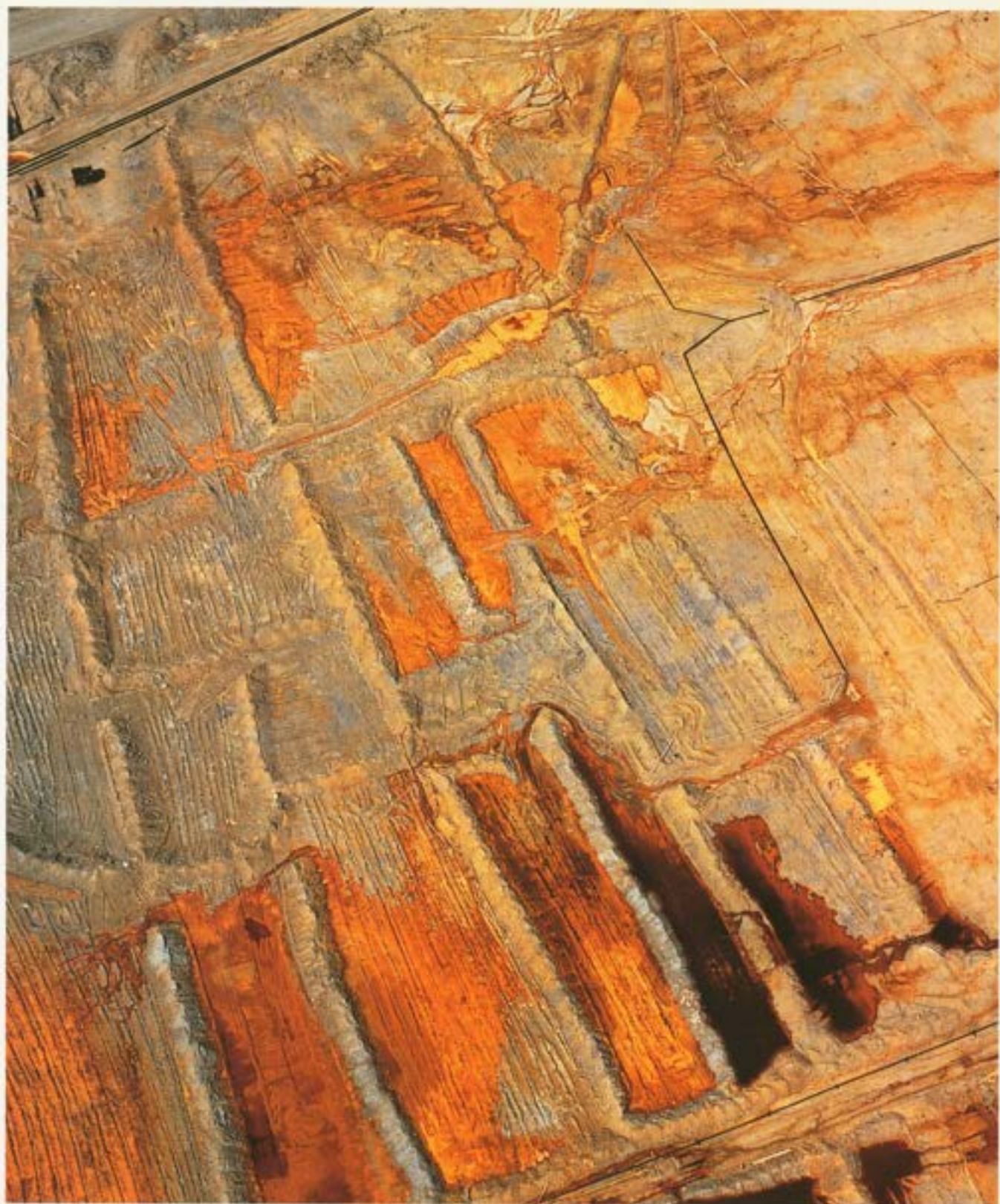
as all outdoors. In one General Accounting Office study of 20 claims recently patented under the law, the government received a paltry \$4,500 for land worth \$47 million. That was a small gift compared with the one Stillwater Mining (a Chevron-Manville partnership) will receive for its platinum and palladium claims in the Beartooth Mountains of Montana.

There, taxpayers are about to relinquish an estimated \$32 billion worth of ore for little more than \$10,000.

The financially pampered hardrock entrepreneur doesn't even have to extract the minerals from the land. Once Uncle Sam hands over the deed, the "miner" can decide to build a retirement cabin, a ski resort, or a golf course instead. He can also sell the land, as did the happy man who staked claims on

Nevada's Yucca Mountain shortly before it

Photography by David Maisel



BUTTE, MONTANA
GOLD RETRIEVAL AT A COPPER MINE.



was declared the prime candidate for a nuclear-waste storage site. Taxpayers eventually paid \$250,000 to buy him out.

The vigorous mining lobby can take partial credit for keeping this outdated law on the books, but ignorance has played a part as well. Few citizens know anything about the 1872 Mining Law, and savvy miners would like to keep it that way. "Industry should not conduct the Mining Law battle in public view," a market-research firm warned the American Mining Congress after polling 1,000 registered voters in 1990. "The public will side with opponents of industry in overwhelming numbers."

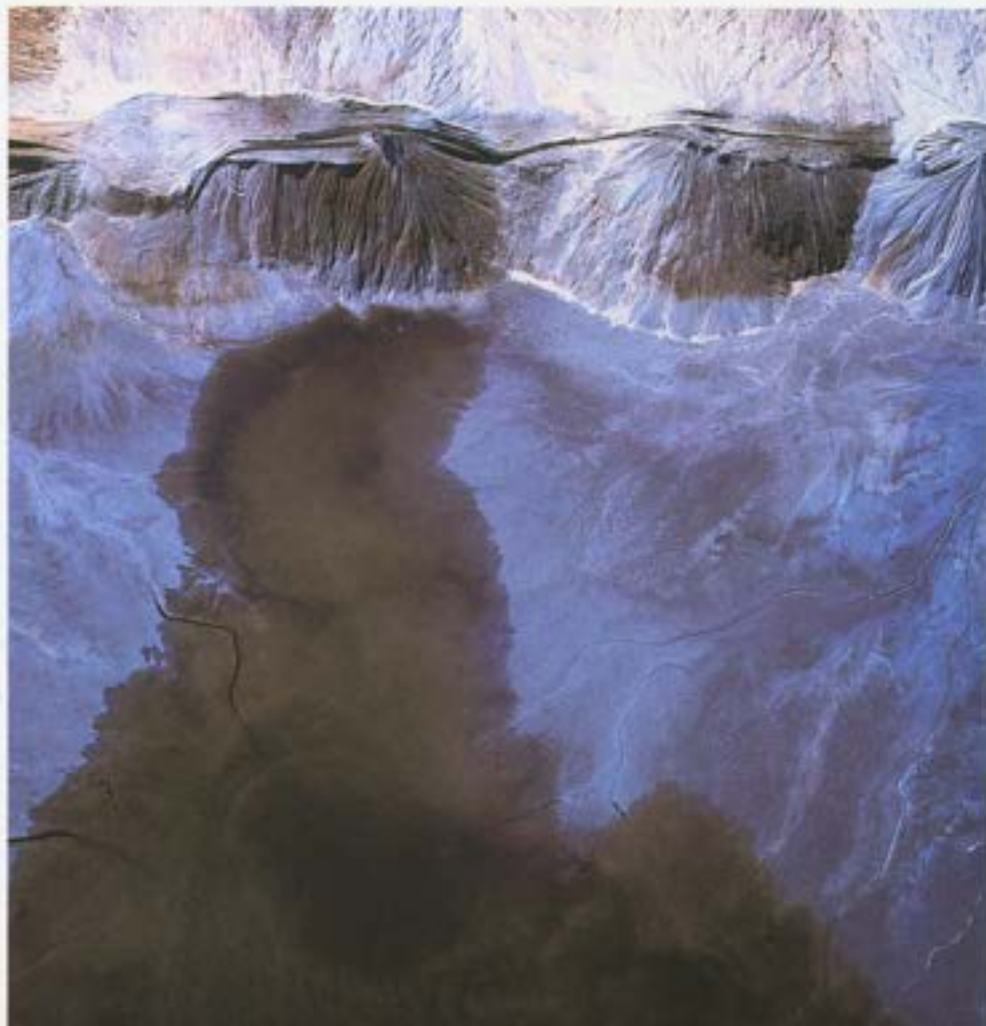
Fortunately, the mining industry has failed to keep the issue buried. House Interior Committee Chair George Miller (D-Calif.) has declared mining reform one of his highest priorities. Last year he and Nick Joe Rahall (D-W. Va.) won committee approval for a reform bill that would

have forbidden patenting while requiring miners to pay an 8-percent royalty on minerals wrested from public lands. It also would have allowed federal agencies to say no to mining in ecologically sensitive areas—and to insist that approved mine sites be cleaned up. The Senate refused to move Dale Bumpers' (D-Ark.) companion bill, but House action alone was cause for celebration: no previous reform bill had ever even made it out of committee.

As political momentum builds for a new law this year, we offer a graphic look at what mining means in America today, from serene old scars to the fresh wounds of vast sacrifice zones. Some of the scenes are perversely beautiful; they can even be appreciated as a testament to human muscle and ingenuity. But they have a more visceral impact as well, revealing the ghastly legacy of a law that gives too much and asks too little in return. —Joan Hamilton

• RAY, ARIZONA
CYANIDE LEACHING FOR GOLD.

• CLIFTON, ARIZONA
CYANIDE LEACHING FOR GOLD.



• BUTTE, MONTANA
A COPPER MINE'S
TAILINGS POND.



MUD WRESTLING

Once content to
wield bulldozers
and backhoes,

developers now
use slick lobbyists,
fat-cat campaign
contributions, and
outright lies to
fill in America's
wetlands.

WTerry Huffman walks a jeep track across a California hillside. Grass spills from the oak-wooded ridges above him to a lush, green meadow below. A line of willows marks the defile of a creek from the woodlands to the meadow. Here and there, tongues of Scotch broom lick into the grass, marking erosion slumps caused by rock quarrying and bulldozing for a golf course that never teed off. The soil along the trail is crusted and cracked, like a dried-out lakebed. ■ Huffman, a large, bearlike man with a brushy red mustache and receding red hair, bends down to the side of the path and pulls up a sedge—a family generally found in wetlands. With a mixture of studiousness and whimsy on his round face, he peers through wire-rimmed glasses at the plant's roots. They are covered with a rusty-red dust. Evidently the soil has been waterlogged long enough for these roots to leak oxygen, which has combined with iron in the soil to coat the roots with iron oxide. Even

BY PETER STEINHART

though the land looks dry, its vegetation, hydrology, and soil indicate that it is in fact a wetland. ■ A few years ago a developer who wanted to build houses here hired Huffman, a private consultant, to guide him through the regulatory process. Huffman looked at the 100-acre proposal and explained to the developer that the U.S. Army Corps of Engineers, which issues



the permits required for wetland projects under the Clean Water Act, was unlikely to allow construction on the 11 acres of wetland. The developer scaled back his plans and got the permit.

This is a headwater wetland, Huffman says, a type found high in a watershed. As such, it forms the first line of defense in capturing pollutants and silt from the disturbed ridges above. Rainwater streaming from the 100-acre plot and surface runoff from a housing development 200 yards below is shunted into an underground culvert and dumped into the tidal creek at the edge of San Francisco Bay. "The goal of a developer is to get water off the property as fast as he can," explains Huffman. Were the wetlands of this headwater site filled and paved, the tidal creek below, which now

meanders through pickleweed and cordgrass to the mud flats and open water of the bay, would be choked and pea-green with algae.

Because wetlands provide nature's most abundant sources of food, much of humankind has grown up in places that are—or were—near them. Native American settlements were tied to marshy areas, as are most of our modern cities. The sparkle of sunlight on water, the wreaths of fog rising from a morning marsh, the surge of fish darting over shoals, the clouds of geese and shorebirds winging to Earth from long migrations, the dendritic pattern of rill and channel in tidal mud—these are scenes etched deeply



As they move south from Alaska, huge flocks of snow geese fill the sky. Wetlands are vital to the survival of most waterfowl species.

into the human imagination.

Yet people also think of swamps as breeding places of pestilence and confusion. The mud that fills them is seen as something that abases us and holds us down. Mud has become a moral metaphor, rather than a part of nature. At one time, soil (or earth) and dirt (or filth) were different things. As social distinctions grew more rigid, however, dirt and soil merged. The privileged aspired to white shirts and spit-shined shoes, to show that they walked above the whims of earth. Dirt became the costume of poverty. Victorians wrote of "muddy-brained peasants" and described illicit pleasure as "mudhoney." Even today we disparage bad coffee as mud or bad thinking as muddled.

Hoping to sow economic growth (and perhaps to expunge moral confusion), the U.S. Congress, in a series of swamp acts in the mid-1800s, gave away 65 million acres of wetlands to encourage people to drain and fill them. By 1980 this country had destroyed half the 200 million acres of wetlands thought to have once existed in the contiguous 48 states.

We have only begun to understand the environmental costs of this loss. Since the 1960s, research has shown that wetlands are critical to the avoidance of flooding, to the maintenance of groundwater supplies, and to the cleansing of nitrates, phosphates, and other farm wastes from water. It has been shown that wetland plants grow faster than the crops on many farms. Three-quarters of our bird species depend upon wetlands; so do two-thirds of our commercial fish and shellfish. Yet the United States continues to destroy wetlands at the rate of 290,000 acres a year. And as we do, we pay increasing costs for flood control

The term "wetland" covers a multitude of landscapes, such as this freshwater marsh in Alaska's Yukon-Charley Rivers National Park.

and water purification. Coastal fisheries are in decline. Nearly half of our endangered species are native to wetlands. And once-common plants and animals grow uncommon. There are only a quarter as many pintail ducks as there were in the 1950s, and mallard populations are down 50 percent.

There's a whiff of destiny to Huffman's involvement with wetlands. As a boy he wandered the cypress swamps near Texarkana, Arkansas, collecting frogs and snakes. As a graduate student in botany he wanted to investigate wetland plants. But at the time botanists studied either aquatic or terrestrial vegetation; wetland plants fell into a no-man's-land between them. "Most people didn't want to get involved in wetlands because they're wet and mucky and full of mosquitoes," Huffman says. But he didn't mind the mud, and became a wetlands scientist. When he joined the military in 1976, Huffman was detailed to the U.S.



Army Corps of Engineers office in Vicksburg, Mississippi. As he stood at attention before the Chief Engineer's desk, his commanding officer read over his file and exclaimed, "My god, I've got myself a combat botanist!"

The commander put Huffman to work on a chore required by the Clean Water Act—shaping permit procedures for the disposal of dredge spoils in U.S. waterways, including wetlands. Suddenly Huffman found himself faced with having to come up with a way to define this type of landscape. The task was not simple. There are many kinds of wetlands—including cypress swamps, dark with shade and black water, eerily draped with twisted branches and moss beards; desert cienegas, where water bubbles out of seams in the rock and creeps downhill to nourish verdant meadows and sunlit groves of willow and cottonwood; and prairie potholes, primary breeding grounds for most of North America's ducks, made up of depressions in the glacially scoured landscape that fill with snowmelt in the spring and remain as ponds and lakes through much of the summer.

Deciding what qualities knit the various kinds of wetlands into a single category posed problems for Huffman. They are not simply areas that are covered much of the time by water. The headwater wetland on the hillside near San Francisco Bay, for instance, never saturates to the surface. Nor are plants a sufficient indicator. Some wetlands critically important to flood control or water quality or migratory birds foster wetland plant species only during rainy seasons. Around the fringes of the bay, one can find hardpan, dried-up stretches of salt-encrusted mud. Hardpan

A green-backed heron in the Florida Everglades, where aquatic birds still thrive in the soggy depths of the remaining sawgrass prairies, sloughs, and mangroves.

may look unproductive most of the year, but when it comes alive with brine shrimp and wetland plants after winter rains, migrating ducks and shorebirds flock to it by the tens of thousands.

While working for the Corps, Huffman was able to study wet-

Though this blueberry and spruce bog in Maine doesn't look wet, it is waterlogged beneath the surface. In New England and around the Great Lakes, such inconspicuous wetlands conserve and filter water while providing wildlife habitat. They also help stabilize climate by storing carbon dioxide from decaying plant material as peat. If it were released to the atmosphere, that CO₂ could hasten the pace of global climate change. Because of their lack of surface water, most bogs were declared undeserving of protection by the Bush administration, which attempted to define out of existence about half of the nation's remaining wetlands. Other threatened locales include the Southeast's bottomland hardwood forests, North Dakota's prairie potholes, and Nebraska's Rainwater Basin.

lands from a broad ecological perspective. He concluded: "Water doesn't make a wetland. Plants don't make a wetland. Soils don't make a wetland. It's the combination."

These ideas were eventually embraced by the scientific community, but they have proven decidedly unpopular with development-minded politicians.

When the Corps, the Environmental Protection Agency, and other agencies agreed on ways to apply a broad, ecologically based definition of wetlands in a new manual published in 1989, Vice-President Dan Quayle viewed the move as "one of the largest land grabs in modern times."

The 1989 manual was designed to iron out the differences in a tangle of rules already used by the Soil Conservation Service, the Fish and Wildlife Service, the EPA, and the various districts of the Corps for permitting wetland conversion. All of these agencies followed Huffman's practice of looking at hydrology, soil types, and wetland plants. But each had its own approach. One Corps district declared that





no land with trees on it would be considered a wetland. Another would not consider whether the soils were saturated. Some SCS districts were reluctant to enforce provisions in the 1985 farm bill that denied federal crop insurance or commodity price supports to farmers who drained or plowed up pristine wetlands; the districts felt those penalties were too severe. To bring fairness and consistency to the process, the four agencies developed the joint manual.

The new guidelines expanded the definition of wetlands

only slightly to include some areas that are dry on the surface but saturated underground, such as pine-flat woodlands or winter wet woods in Maryland. They adopted the EPA's view that former wetlands used for farming would be exempt from regulation—until plans were made to convert them to a housing tract or a shopping center, for example, which would trigger the permit process.

Immediately, opponents howled about a broadening web

Continued on page 148

LONG ON THINGS,

**ALL THAT STUFF WE
BUY CASTS A SHADOW
ACROSS THE EARTH.
WE CAN—AND MUST—
MAKE DO WITH LESS...**



ILLUSTRATIONS BY MELISSA GRIMES

The consumer society was born in the United States in the 1920s. Economists and business executives, concerned that the output of mass production might go unsold when people's natural desires for food, clothing, and shelter were satisfied, began pushing mass consumption as the key to continued economic expansion. As brand names became household words, packaged and processed foods made their widespread debut, and the automobile assumed its place at the center of the culture, the "democratization of consumption" became the unspoken goal of American economic policy. ♦ Since then, the consumer society has moved far beyond U.S. borders, expanding to Western Europe and Japan by the 1960s. Yet far outpacing growth of the consumer class itself—the 20 percent of the world's people who earn 64 percent of world income—is the spread of its underlying cultural orientation, consumerism. That term, writes British economist Paul Ekins, refers to the belief that "the possession and use of an increasing number and variety of goods and services is the principal cultural aspiration and the surest perceived route to personal happiness, social status and national success." But even as, over a few short generations, more than a billion of the world's people have become car drivers, television watchers, mall shoppers, and throwaway buyers, social scientists have found striking evidence that high-consumption societies have not achieved satisfaction. The consumer society fails to deliver on its promise of fulfillment through material comforts because human desires are insatiable, human needs are socially de-

fined, and (perhaps most critically) the real sources of personal happiness are elsewhere. "The conditions of life which really make a difference to happiness," writes psychologist Michael Argyle, "are . . . social relations, work, and leisure. And the establishment of a satisfying state of affairs in these spheres does not depend much on wealth, either absolute or relative." ♦ The consumer society, it seems, has succeeded mostly in impoverishing us. This impoverishment is profoundly spiritual, but it is also demonstrably environmental. Our way of life entails an enormous and continuous dependence on the very commodities that are most damaging to the earth to produce: energy, chemicals, metals, and paper. By drawing on resources far and near, we consumers—though our numbers are concentrated primarily in North America, Western Europe, Japan, Australia, Hong Kong, Singapore, and the oil sheikdoms of the Middle East—cast an ecological shadow over wide regions of the world. Our appetite for wood and minerals, for example, motivates the road-builders who open tropical rainforests to poor settlers, resulting in the slash-and-burn forest clearing that is condemning countless species to extinction. A blouse in a Japanese boutique may come from Indonesian oil wells by way of petrochemical plants and textile mills in Singapore and assembly factories in Bangladesh. Likewise, an automobile in a German showroom bearing the logo of an American-owned corporation typically contains parts manufactured in a dozen or more countries, and raw materials that



SHORT ON

**...WHILE LEARNING TO
MEASURE OUR WEALTH
NOT IN DOLLARS,
BUT IN HOURS.**

BY ALAN THEIN DURNING

TIME

originated in a dozen others. From global warming to species extinction, we consumers bear a huge responsibility for the ills of the earth.

Yet our consumption too seldom receives the attention of those concerned about the fate of the planet. Technological change and population stabilization—as reasonable as it is to emphasize their importance—must be complemented by a reduction of our material wants. Human desires will still overrun the biosphere unless they shift from material to nonmaterial ends. The ability of the earth to support billions of human beings depends on whether we continue to equate consumption with fulfillment. At the same time, we need to challenge the received wisdom that consumption must be pursued—regardless of its human and environmental effects—as a matter of national policy in order to keep ourselves employed.

The latter assumption runs deep. Broadcast news programs cover retail districts in the holiday season as if they were scenes of national significance, offering commentary on shoppers' readiness to buy. When recession hit the United States in mid-1990, everyone from the president on down began begging loyal Americans to spend.

The reasoning behind such entreaties sounds impeccable: if no one buys, no one sells, and if no one sells, no one works. Thus, in the consumer economy—where two-thirds of gross national product consists of consumer expenditures—everything from fortunes on the stock market to national economic policies hinges on surveys of "consumer confidence" and "intentions to buy." If this consume-or-decline view is right, then lowering our consumption on purpose, individually and collectively, would be self-destructive. Cutting our driving in half, for example, would throw half the gasoline station attendants out of work, along with half the car mechanics, auto workers, auto-insurance agents, and car-financing specialists. The shock of those layoffs would cause a chain reaction of additional job losses that could end in a repeat of the Great Depression.

Mainstream economists paint a similarly nightmarish scenario for developing countries. The industrial countries, they solemnly intone, are the locomotive of the world economy. Contracting demand in industrial countries would leave the citizens of impoverished lands stranded in destitution. Having gambled everything on consumers' endlessly growing appetite for their exported raw materials, developing nations would fall into irreversible decline. In this view, failing to increase consumer-class intake of raw materials is a crime against the 42 poorest nations—what the United Nations calls the least-developed countries—because they depend on commodity exports for more than 60 percent of their foreign earnings.

The consume-or-decline argument contains a grain of truth. The global economy is indeed structured primarily to feed the consumer lifestyle of the world's affluent fifth, and shifting from high to low consumption would shake that

structure to its core. It would require legions of workers to change jobs, entire continents to reconfigure their industrial bases, and enterprises of all scales to transform their operations. It would, worst of all, entail painful dislocation for thousands of families and communities.

But consider the alternative: continuing to pillage and poison the earth would guarantee not only the same misfortunes but worse. Fishers will be left idle if water pollution and overharvesting decimate fisheries. Farmers will abandon their fields if recurrent drought kills their crops and animals. Loggers will have little to do if the forests are destroyed by air pollution, acid rain, clearcutting, and shifting climatic zones. Carmakers and homebuilders will not find many buyers if people must spend most of their earnings on scarce food supplies. Business, in short, will not do well on a dying planet. In this light, the admittedly unsettling changes to the global economy so gloomily defended against by the consume-or-decline school are no more an argument against lowering consumption than job losses in the weapons industry are an argument against peace.

The contention that the world's poor cannot afford for us consumers to live on less is debatable at best. Although many developing countries are integrated into the world economy as suppliers of raw materials, this situation puts them in a dependent status that their leaders have decried for decades. Furthermore, the trickle-down effects of the growing consumer economy have proved a disappointing source of economic stimulus. Indeed, the most notable consequence so far has been to create enclaves of world-class consumers in every nation. These elites profit mightily from the exports of natural resources from the global South to the global North. But the world's poor have gained little beyond devastated homelands. Ending poverty, as innumerable experts confirm, depends on aggressive national campaigns for basic health, education, and family planning, on broad-based, labor-intensive development schemes in rural areas, on the mobilizing efforts of grassroots organizations, and on the existence of responsive local and national governments. To finance all these, economic policies must promote innovation, reward success, and allow markets to work efficiently. Ending poverty does not necessarily depend on the production of bulky, low-value goods destined for export to the consumer class. More beneficial by far would be world-trade rules written to make commodity prices reflect more of the ecological costs of production.

The transition to an economy of permanence will be challenging, but perhaps less so than the consume-or-decline argument suggests, because that line of thought rests on three arguable assumptions: that consumption of economic services is immutably bonded to consumption of physical resources in the economy; that employment is equally bonded to flows of physical resources; and that only one model of employment—40 hours a week, all year round—is viable, even

Continued on page 139

1 9 9 3 S I E R R A C L U B O U T I N G S

Outings



Chairman's Message

I recently received a note from a participant on a 1992 Sierra Club outing. She said meeting and getting to know a group of people on a one-week trip had been a marvelous experience. I'm sure she will join us in 1993 on another trip. How about you?

This year, after a hiatus of six years, the Sierra Club is pleased to reintroduce its program of whitewater rafting trips. Take a look at the photos and trip write-ups on page 131, and whet your appetite for an adventure down one of America's great rivers.

To better help you find the right trip, we are introducing an "Index by Special Feature" this year. Most of our participants are well served by our method of grouping trips, but for those of you with special requirements or interests (e.g. vegetarians, novice backpackers, etc.), the new index will facilitate your search for the perfect outing.

Working on the National Outing Program has become a way of life for many families. Look for the profiles of leader families throughout this catalog. Read about some of our early leaders and how their children are now following in their footsteps.

The Outing Committee, staff, and all of our leaders invite you to join a 1993 trip. Discover what so many of your fellow Sierra Club members have been enjoying for 92 years.



Peter Bengtson,
Outing Committee Chairman

Cover photograph:
Kayak and iceberg in Southwest Alaska,
by Art Wolfe.

IMPORTANT—PLEASE READ CAREFULLY

The Outing Department is currently processing reservations for spring 1993 trips. We will begin processing reservations for summer and fall trips on January 4, 1993. To apply for a trip, fill out the reservation form on page 136 and mail it in with the appropriate deposit. We are not able to take phone or fax reservations, and do not accept credit cards.

Please be sure to include your membership number on your trip application. It can be found on your membership card and on the mailing label of your copy of *Sierra*.

Make sure you carefully read the Reservation and Cancellation Policy on pages 136-137 before applying. Unless you are waitlisted at time of cancellation, you will be liable for cancellation fees. Note also that leader approval is required for all trips.

We strongly recommend that you read a detailed trip brochure before signing up for a trip, particularly if this is your first Sierra Club outing, or if you have questions about a trip's suitability to your needs, interests, and abilities. Many trips can accommodate special dietary needs (e.g. vegetarian), while others cannot. Check individual trip brochures or contact trip leaders about your particular situation.

Most trip brochures will be available on January 1. See page 136 for information on ordering them by mail. You can also order brochures by phone at (415) 923-5630 (24-hour voicemail).

For information on space availability and questions regarding trip reservations, call (415) 923-5522 between 8:30 a.m. and 5 p.m., Pacific Time.

MORLEY FUND

Created in 1951 by the bequest of Mrs. F. H. Morley, the Morley Fund has money available to help defray the trip costs of teachers and other educators who could not otherwise afford to go on trips. If you think you might qualify, request an application from the:

MORLEY FUND
SIERRA CLUB OUTING DEPARTMENT
730 Polk Street, San Francisco, CA 94109

All applications must be submitted by March 15.

PHOTOS WANTED

The Outing Department thanks our photographers and requests that color slides and prints (with negatives) for outing publications be sent to:

NAOMI WILLIAMS
SIERRA CLUB OUTING DEPARTMENT
730 Polk Street, San Francisco, CA 94109

The deadline for the 1994 catalog is October 1, 1993.

Contents

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THANKS

The Outing Department staff wishes to thank the Conservation Field staff for their assistance in the preparation of the Conservation Challenges.

Our thanks also to Steve Griffiths, who served as Publicity Manager for 1987 to 1992. Steve was responsible for instituting many improvements in the visual and editorial standards for the Outing Catalog. We wish him luck in his new position with the Sierra Club's Centennial Campaign.

Printed on recycled paper.

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This catalog is dedicated to Wayne R. Woodruff in appreciation of his many years of service to the Outing Committee as Foreign Subcommittee chair. From 1978 to 1992, Wayne devoted considerable time and effort to the development of this program. As he passes this job on, we wish him well and hope to see him back in the field leading trips for many years to come.

Index by Special Feature

Every Sierra Club outing is unique. Each trip is planned and led by a volunteer Sierra Club member who puts his or her own individual stamp on it. We know some of our members have particular needs and interests. This index provides a quick reference to some of those special features and the trips that offer them. Don't forget to read all of the trip descriptions which might interest you, however. You'll find that all of our trips are special in their own right. Trips are indicated by catalog section and trip number.

ARCHAEOLOGY

Visiting, studying, or working at archaeological sites is the focus of the following trips: Backpack 93220; International (Asia) 94510; (Europe) 93750, 93760; (Latin America) 93725, 93850; Service 93077, 93302, 93304, 93306, 93351, 93367, 93371, 93373, 93376.

ART

Improve your sketching and painting skills in the wilderness. The following trips will have an artist on staff: Backpack 93176; Base Camp 93228, (Clair Tappaan Lodge) 93242; Burro 93262.

BEGINNER

The following trips particularly welcome beginners, but check difficulty ratings and trip copy for other possibilities: Backpack 93035, 93130, 93149, 93150, 93159, 93164, 93172, 93194; Base Camp 93067, 93233, 93245; Family 93273, 93276, 93277, 93280, 93281; Highlight 93290, 93295; International (Asia) 94510; Service 93377.

FLY-FISHING

There are fishing opportunities on many outings. Fly-fishing is the particular focus of this trip: Highlight 93291.

HISTORY

Regional history is featured on the following trips: Base Camp (Clair Tappaan Lodge) 93241; Highlight 93075, 93290.

JUNIORS

The following trips are especially for teenage participants: Backpack 93149, 93197; Family 93269, 93272.

LEADER TRAINING

Sierra Club outings offer a great training ground for people interested in trip leadership. These two trips are designed specifically for would-be leaders: Backpack 93136, Base Camp 93232.

LODGE

There are many trips for participants who prefer to sleep indoors. In addition to the trips listed here, check the Clair Tappaan Lodge trips listed on page 95, the Ski trips on page 127, and the many International trips on which participants stay in lodges or guesthouses: Base Camp 93062, 93063, 93065, 93228, 93237, 93240, 93243; Bicycle 93252; Family 93270, 93278, 93279, 93280, 93283; Hawaii 93073; Highlight 93075; Service 93353.

MUSIC

Enjoy music in the mountains with fellow enthusiasts on this trip: Base Camp (Clair Tappaan Lodge) 93239.

NATURE STUDY

The highlight of these outings is studying the flora and fauna of the wilderness; many include a naturalist on staff: Alaska 93108; Backpack 93037 (geologist on staff), 93145 (geologist on staff), 93155, 93213; Base Camp 93065, 93229, (Clair Tappaan Lodge) 93234; Family 93280; Hawaii 93072; International (Latin America) 93730, 93775, 93835, 93855, 94500; Service 93350; Water (kayak) 93392.

PHOTOGRAPHY

Photo opportunities abound on Sierra Club outings. Photographic skills and techniques are the primary focus of the following trips: Alaska 93104, 93108; Backpack, 93144, 93168, 93176; Base Camp (Clair Tappaan Lodge) 93238; International (Latin America) 93840.

SENIORS

People of all ages enjoy our outings. Here's one trip designed specifically for seniors: Base Camp 93063.

SIERRA SAMPLERS

Enjoy backpacking in the Sierra without committing an entire week of your time. These trips are all four or five days in length: Backpack 93132, 93133, 93141, 93211.

12-STEP

If 12-Step programs are an important part of your life, look into this unique outing: Base Camp (Clair Tappaan Lodge) 93235.

VAN

Participants can cover a lot of distance in the comfort of a van on the following trips: Alaska 93123; Highlight 93076, 93290; International (Asia) 93765, 94510; (Europe) 93745.

VEGETARIAN

Vegetarian food is available on the following trips. Other trips may also be able to accommodate vegetarian participants; check with the trip leader: Alaska 93110, 93112, 93117; Backpack 93040, 93045, 93133, 93160, 93197, 93205, 93221, 93236 (modified); Bicycle 93252; Family 93280; International (Asia) 94510; Service 93304, 93361, 93362, 93376; Water (canoe) 93388.

WOMEN

These popular trips offer women the opportunity to explore the wilderness with other women: Backpack 93164, 93172; Service 93316.

WRITING

Expert guidance on nature writing is available on these trips: Alaska 93104; Base Camp (Clair Tappaan Lodge) 93244.

ICO

Innner City Outings (ICO) is the Sierra Club's community-outreach program. ICO volunteer leaders work in cooperation with community agencies and schools to provide wilderness and environmental education opportunities for people who wouldn't otherwise have them—urban youths, senior citizens, hearing or visually impaired individuals, and physically disabled persons. * Inner City Outings offers these individuals a chance to meet the challenges of wilderness travel, learn about the natural environment, develop good wilderness manners—and have a lot of fun in the process. * Participants also discover the value of cooperation (particularly when it comes to setting up a tent in the rain or guiding a raft through whitewater rapids!), and get to know people of diverse ethnic and cultural backgrounds. In some communities, ICO volunteers conduct leader training programs to recruit new leaders and encourage youth participants to become junior leaders.



ICO group hiking at Break Neck Ridge, New York.

In 1992, volunteer leaders provided more than 650 outings for close to 8,000 participants. Currently, there are 38 ICO groups in these locations:

Atlanta, Georgia
Austin, Texas
Boston, Massachusetts
Charlotte, North Carolina
Chicago, Illinois
Cincinnati, Ohio
Cleveland, Ohio
Dallas, Texas
Denver, Colorado

Detroit, Michigan
El Paso, Texas
Fairfield County, Connecticut
Ft. Lauderdale, Florida*
Fresno, California
Hartford, Connecticut*
Houston, Texas
Indianapolis, Indiana
Kansas City, Missouri
Los Angeles, California
Memphis, Tennessee*
Miami, Florida
New Jersey
New Orleans, Louisiana*
New York, New York

Oklahoma City, Oklahoma
Philadelphia, Pennsylvania
Phoenix, Arizona
Portland, Oregon
Raleigh, North Carolina
Sacramento, California
St. Louis, Missouri*
San Diego, California
San Francisco, California
San Jose, California
Seattle, Washington*
Tampa, Florida*
Tucson, Arizona
Washington, D.C.
*Established in 1992.

Each ICO group is supported by donations of money and equipment. Contributions to the program are tax-deductible. Checks should be made out to: **The Sierra Club Foundation/Inner City Outings**. Donations and requests for information about becoming an ICO leader or forming an ICO group should be sent to:

**INNER CITY OUTINGS
SIERRA CLUB**
730 Polk Street
San Francisco, CA 94109



Wonder Lake, Denali National Park;
above, Glacier Bay National Park;
above left, Moose in Denali National
Park; below left, cooking over fire,
Alek River; right, relaxing in
tent, Alek River.

Alaska

AND
ARCTIC
CANADA

To experience firsthand the most awesome wilderness areas of this continent, join the Sierra Club on an outing to Alaska or to Canada's Far North. Witness a land of extremes and variety—wild rivers, unpredictable weather, abundant wildlife, and grand mountain ranges.

* You can partake of this bounty by sea kayak or ferry or van, on foot or on bicycle, with a backpack or more gently from a base camp, or on one of our service trips. * All trips provide a wide range of opportunities for studying a fascinating diversity of wildlife and flora. Conservationists can learn firsthand about areas that need wilderness protection. * Trips vary widely in terms of physical challenge and required skills, necessary gear, and expense. All trips require flexibility and fortitude. * Backpack and canoe trips are rated in terms of difficulty. For a general explanation of backpack ratings, see page 75. Bear in mind that Arctic trips are a special case; difficulty ratings may not exactly correspond to that of other backpack trips. Canoe grades are explained on page 129. * Trip prices do not include travel to or within Alaska. Most trips require a charter flight; costs range from \$400–\$900. Check the individual trip brochures for more details.

Arctic Wildlife Refuge Backpack, Brooks Range—June 14–25. Join Arctic birds, flowers, moose, wolves, and maybe migrating caribou as summer arrives on the tundra. Enjoying 24 hours of daylight, we'll hike a loop between the snowcapped Romanzof Mountains and the coastal plain as it slopes north to the Beaufort Sea. (Rated M) Leader: Carol Hake. Price: \$995; Dep: \$100. [93100]

Glacier Bay Park and Preserve Service Trip—June 15–25. We'll do trail maintenance and perhaps some kayaking amid whales, waterfowl, and oceanside glaciers. Leader: John Albrecht. Cook: Carla Moreno. Price: \$425; Dep: \$50. [93101]

Gates of the Arctic/Noatak River Canoe Exploration—June 18–30. Enjoy natural history, photography, and fishing. The Noatak River, located in the remote heartland of the Brooks Range, is home to grizzlies, black bears, wolves, foxes, caribou, moose, and Dall sheep. River days alternate with base camps to explore side canyons, peaks, and glaciers by day or under the midnight sun. Paddling and wilderness experience necessary. Trip fee in-

cludes canoe rental. (Grade C) Leader: Chet Dunbar. Price: \$1,495; Dep: \$200. [93102]

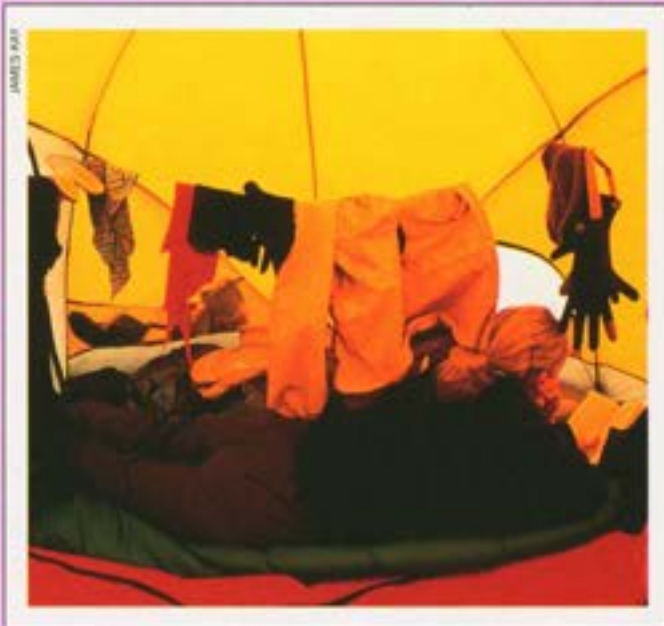
Tatshenshini by Raft, St. Elias Mountains, Alaska and British Columbia—June 21–30. A fantastic adventure awaits you on this 10-day, 125-mile journey. We begin in lush forest at Dalton, British Columbia, and conclude

the trip paddling among the freshly calved icebergs of Aisek Glacier. The river carries us through pristine wilderness dominated by towering snow-clad peaks and thundering waterfalls. Broad valley vistas make wildlife sightings frequent and delight photographers. Leader: Gary Dillon. Price: \$1,890; Dep: \$200. [93103]

Arctic Wildlife Refuge Pen and Photo Backpack—June 21–July 2. Venture to the Arctic National Wildlife Refuge with the photo editor of *Alaska Magazine* and experience the splendor of the Arctic while developing writing and photography skills. We will combine hiking in the Sadlerochit area with informal workshops on preparing publishable work on the Refuge. Backpacking experience and an interest in writing and photography required. (Rated M-S) Leader: Ed Debevec. Price: \$1,095; Dep: \$200. [93104]

Glacier Bay Sea Kayak, Glacier Bay Park and Preserve—June 22–July 3. Discover the pleasures of sea kayaking as we paddle among forested islands; across the flat, open bay; and through floating ice near calving glaciers. We will see whales, seals, harbor porpoises, and thousands of birds. No previous kayaking required, but you must be comfortable in a small two-person boat in deep water. Trip fee includes kayak rental. Leader: Kern Hildebrand. Price: \$1,495; Dep: \$200. [93105]

Inside Passage, Stikine River, LeConte Glacier Sea Kayak—June 23–July 2. Come explore



Denali reflections; below, fireweed; right, Chugach Mountains; far right, kayakers.

KEVIN BUTLER



TRIP PRICES DO NOT INCLUDE TRAVEL TO ALASKA OR CHARTER AIR COSTS.

BOB LUDWIG

Alaska's Inside Passage in your sea kayak personal cruise. We'll see Alaskan wildlife close up, tidewater glacier ice, and craggy coastal mountains as we paddle double-kayaks from Wrangell to Petersburg via the Stikine River bird flyway and the LeConte tidewater glacier. Minimal experience required but you must be comfortable in a small boat in deep water. Trip fee includes kayak rental. Leaders: Martha Schultz and Ian Walton. Price: \$1,495 Dep: \$200. [93106]

Arctic Wildlife Refuge Backpack and Leisure Exploration—June 24–July 3. Experience the midnight sun amid some of North America's most spectacular tundra and mountain wilderness. Early summer is the best time to visit, with blooming flowers and abundant wildlife. Our 20- to 25-

mile route traverses the glacier-carved mountains of the Brooks Range to the caribou calving grounds of the North Slope. There will be several layover days for exploration and photography. (Rated M) Leader: Wilbur Mills. Price: \$995; Dep: \$100. [93107]

Alaska Range Photography and Nature Study Base Camp—July 1–12. From our base camp in the shadow of Mt. Deborah (12,399 feet), we will study and photograph plants, animals, and

the area's varied landscapes. The steep, rugged terrain of the Alaska Range east of Denali is home to Dall sheep, caribou, and other mountain-tundra wildlife. Interested participants may accompany the leader on optional overnight backpacks. Leader: Jerry Lobel. Price: \$995; Dep: \$100. [93108]

Hulahula Paddle Raft, Arctic Wildlife Refuge—July 3–14. Paddling 70 miles on Class I to III water, we will pass between the two highest peaks in the Brooks Range—mounts Michelson and Chamberlin. Descending to the Arctic coastal plain, we traverse

prime habitat for caribou, musk ox, Dall sheep, eagles, wolves, foxes, and migratory birds. Our leisurely pace allows for layover days and explorations by foot. Previous river experience recommended. Leader: Ken Dawdy. Price: \$1,750; Dep: \$200. [93109]

Kenai Fjords Park by Sea Kayak—July 5–15. Dense spruce and hemlock forests, volcanic beaches, waterfalls cascading down sea cliffs—Kenai Fjords offers dramatic and rugged scenery that is uniquely Alaskan. We'll paddle past tidewater glaciers, explore small coves, and observe the many varieties of abundant bird and marine life. No paddle experience is necessary, but you should feel comfortable in a small boat. Trip fee includes kayak rental. Leader: Gregg Williams. Price: \$1,295; Dep: \$200. [93110]



Prince William Sound Service Trip, Chugach Forest—July 6–16. Help maintain trails in this still-beautiful region. Our free days can be spent exploring the majestic glaciers and coastal environment. *Leaders: Carmen and Bruce Johnson. Price: \$425; Dep: \$50. [93111]*

Backpacking the Brooks Range, Phillip Smith Mountains—July 11–23. Largely unexplored and often inaccurately mapped, the Brooks Range is one of Earth's last great wild places. On our non-technical but challenging trip we negotiate a cross-country route through uncharted tundra and auefs, often fording turbulent streams of glacial melt. On layover days we explore canyons, windblown cols, and unnamed peaks, many of them unclimbed. Wildflowers and wildlife abound

in this Arctic-alpine zone. (Rated S) *Leader: Dennis Schmitt. Price: \$1,095; Dep: \$200. [93112]*

Ride the Alaska Range—July 18–31. Discover the majestic Alaska Range by mountain bike! The first week we ride the unpaved Denali Highway across 135 miles of open tundra, skirting mounts Deborah, Hess, and Hayes. Then we head south to Wrangell-St. Elias Park, where we ride down the Copper River Gorge, along Kennicott Glacier, and to the base of 16,390-foot Mt. Blackburn. Sag wagons provide support. *Leaders: Reed McManus and Gregg Williams. Price: \$1,295; Dep: \$200. [93113]*

Gates of the Arctic Park Cleanup—July 20–30. We fly to our rugged base camp in the tundra. Expect to see wildlife, the mid-

CONSERVATION CHALLENGE

Oil Spill Fines Could Save Alaskan Rainforest

When the Exxon Valdez ran aground in March 1989, the 11 million gallons of crude oil spilled into Prince William Sound spread out of control, fouling 1,200 miles of beaches along the western Gulf of Alaska, and killing hundreds of thousands of birds and animals. The Sound is at the apex of the Gulf of Alaska, the northernmost extent of America's coastal rainforest. To the southeast lies the Tongass National Forest, dominated by towering ancient spruce, cedar, and hemlock. The Tongass Reform Act of 1990 protected one million acres of forest from clear-cutting. Now the timber industry is moving into Prince William Sound and southwest along the Gulf coast to the edge of Kodiak Island. Ironically, the disaster of the oil spill now provides an opportunity to save the forests of Prince William Sound and the western Gulf. Hundreds of millions of dollars in fines paid by Exxon could be used to buy and protect hundreds of thousands of acres of private lands. These threatened lands include large portions of Kenai Fjords National Park and Kodiak National Wildlife Refuge. Unfortunately, the money may instead go towards development projects and government bureaucracy. What you can do: Write to the Oil Spill Trustee Council at 645 "Q" Street, Anchorage, AK 99501. Ask them to spend the restoration funds to purchase and protect fish and wildlife habitats. Send a copy of your letter to Sierra Club, 241 E. 5th Ave. #205, Anchorage, AK 99501. And consider going on service trip #93111 or sea kayaking trip #93110.



Relaxing in tall grass, Chugach Mountains; left, frosted strawberry leaves, Denali National Park (reprinted from the Sierra Club Alaska Postcard Collection); above right, grizzly bear; below right, Peters Lake.

night sun, and the unique landscapes of the Last Frontier. *Leader: Tod Rubin. Price: \$575; Dep: \$100. [93114]*

Arrigetch Peaks Leisure Backpack, Gates of the Arctic Park—July 26–August 6. Our group of seven will explore the Gem of the Gates as fall brings vivid color to the Arrigetch Basin. This unique granite area is known for its domes, spires, and glacier-laden canyons. Expect moderate to strenuous hiking days at a leisurely pace that allows for photography, blueberry-picking, and observing wildlife. Backpacking experience required. (Rated M-S) *Leaders: Joan and Bill Busby. Price: \$1,295; Dep: \$200. [93115]*

Chitstone Canyon Backpack, Wrangell-St. Elias Park—July 27–August 6. So many peaks you can't possibly remember their names, varied mountainous terrain covered by massive icefields and active glaciers, diverse habitats with a rich variety of Alaskan fauna... This is Wrangell-St. Elias, largest of all national parks. Our intriguing but difficult route is the historic Goat Trail up colorful Chitstone Canyon to Skotai Pass. (Rated S) *Leader: Jim W. Watters. Price: \$995; Dep: \$100. [93116]*

High Romanof Revisited, Backpacking the Brooks Range—July 28–August 10. Unspoiled tundra, auffs, raging rivers, uncharted gorges, and nameless peaks reward the stout-hearted

on this cross-country spectacular. Crossing the Continental Divide twice in 14 days, we sleep by day and backpack by night—when the sun is low on the horizon and the wildlife is afoot: caribou, musk ox, wolf, grizzly, Dall sheep, and Arctic birds. Experienced backpackers preferred, but strong, determined beginners welcome. (Rated S) *Leader: Patrick Colgan. Price: \$1,095; Dep: \$200. [93117]*

Ellesmere Island Backpack, Northwest Territories, Canada—July 25–August 11. Take a 75-mile walking journey in the extreme north. From the marine mammal haven of Tanquary Fjord to Lake Hazen (81°50'N), we traverse the only ice-free corridor at this latitude. This region of ice plateaus and cascading piedmont glaciers is a world unto itself. Backpacking experience is required. (Rated M-S) *Leader: Dennis Schmitt. Price: \$1,905; Dep: \$200. [93118]*

Gates of the Arctic to the North Slope by Backpack and Raft—August 1–14. Our trip begins with a one-week cross-country backpack along the Continental Divide. At the northernmost reaches of the Brooks Range, we'll start our raft trip down the Killik River onto the North Slope. In addition to bear, wolf, moose, and sheep, we may chance upon the fall migration of the Western Arctic caribou herd. (Rated S) *Leader: Gary Aguilar. Price: \$1,750; Dep: \$200. [93119]*



Noatak Backpack, Gates of the Arctic Park—August 7–18.

Quench your thirst for adventure on a small group backpack through the Noatak River headwaters area. Explore open tundra valleys and side-canyon streams around the rugged peaks of Mt. Igjapak. Participants must be experienced backpackers able to carry moderately heavy loads over 45 miles of trailless terrain with layover days. (Rated S) Leaders: *Jana Torrence and Bill Gomez*. Price: \$1,295; Dep: \$200. [93120]

Twin Lakes Base Camp, Lake Clark Park and Preserve—August 9–20. A region of superlatives, the tundra slopes around

Twin Lakes are prime hiking terrain. Dayhiking from our two base camps or on an overnight backpack, we'll investigate our surroundings in comfort. We'll enjoy viewing the varied and plentiful wildlife; towering, glacier-covered volcanos; and foaming, wild rivers (famous for salmon- and trout-fishing). Late summer will bring the first touch of autumn color and blueberry madness. Leaders: *Carol and Howard Dienger*. Price: \$995; Dep: \$100. [93121]

South-Central Alaska Van Tour—August 15–September 2. Camping and traveling by van, ferry, train, and even hand-pulled cable tram, we'll discover the beauty of south-central Alaska. In our vans we'll cover most of the available roadways and see it all—from the towering mountains of Wrangell-St. Elias National Park, to the immense Harding icefield, to numerous glaciers, the abandoned mining town of Kennicott, as well as the modern city of Anchorage. Our pace will be slow to allow for plenty of photography opportunities and wildlife-viewing; dayhikes will be relatively easy. Leaders: *Ellie Ricker and Lisa Hill*. Price: \$1,895; Dep: \$200. [93123]

Denali Park and Preserve Service Trip—August 20–30. Mt. McKinley is the backdrop as we dismantle an old miner's cabin on this strenuous trip. On free days we'll backpack cross-country to explore the wonders of Denali's subarctic wilderness. Leader: *Anne Stork*. Price: \$425; Dep: \$50. [93124]

Outing Gift Certificate

PLEASE SEND A SIERRA CLUB OUTING GIFT CERTIFICATE IN

THIS GIFT IS FROM:

THE AMOUNT OF \$ _____ TO:

Your Name _____

Name _____

Address _____

Address _____

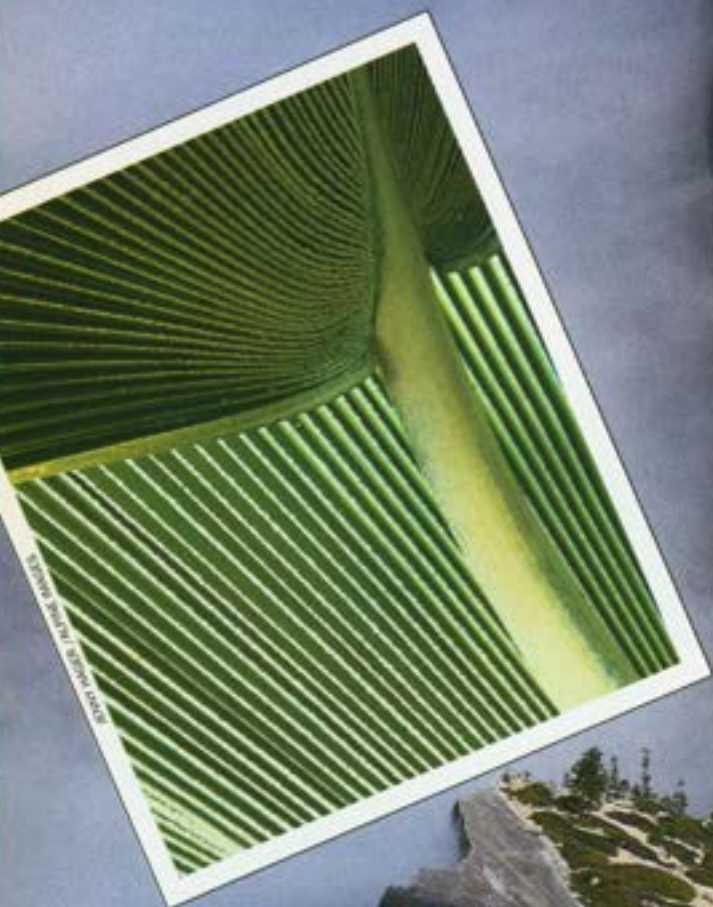
City _____ State _____ Zip _____

City _____ State _____ Zip _____

Amount of Outing Gift Certificate: \$ _____

Mail this form with your check to: **SIERRA CLUB OUTING DEPARTMENT, 730 Polk Street, San Francisco, California 94109.**

Terms and Conditions: Outing Gift Certificates are issued for dollar amounts only, not for specific trips. The minimum amount for a gift certificate is \$50. Persons applying for a trip with a certificate are subject to regular application and leader approval procedures. Once a gift certificate is applied to a trip, the reservation and cancellation policy will apply. Refunds to the recipient for the amount of a gift certificate will be issued on request. A handling charge of \$20 will be deducted from the refund amount.



Half Dome shrouded in mist, Yosemite; left, palmetto leaf (reprinted from *Mother Earth*); above, Saguaro National Monument, Arizona; right, relaxing in Zion National Park, Utah.

Backpack

Experience the wilderness on a rewarding and adventurous backpacking expedition. Carrying everything you need for the trip in a pack allows for a degree of mobility and freedom few other experiences can provide. * Each trip is individually planned by the leader, who seeks challenging routes and out-of-the-way places to camp. On all backpack trips participants share cooking and cleanup chores, and are expected to carry a fair share of food and commissary gear in addition to personal belongings. * Trips vary in length and difficulty. We have divided the trips into five categories. Light (L) trips cover up to 35 miles in four or five travel days, the remaining days being layovers. Moderate (M) trips may cover longer distances of up to 55 miles and involve more cross-country route-finding. Strenuous (S) trips cover as much as 60 to 70 miles with greater ups and downs and continuous high-elevation travel. Light-Moderate (L-M) and Moderate-Strenuous (M-S) are intermediate ratings. Individual trip brochures explain each trip's rating in more detail. * Leaders are required to approve each applicant before final acceptance, and will ask you to write responses to their questions. These responses help the leader judge your backpacking experience and physical condition.

Kofa Wildlife Refuge, Arizona—February 14–20. While most of the nation shivers, come bask in the warm desert sun of southwest Arizona. Our peregrination will take us past volcanic monoliths, over hills of brightly colored soils, and into lush canyons as we search for bighorn sheep and sources of water. For experienced off-trail backpackers only. (Rated M-S) Leader: Sid Hirsh. Price: \$330; Dep: \$50. [93031]

Florida Trail Odyssey, Ocala Forest—February 21–27. Warm your winter-weary bones and escape on a trip to Ocala, the southernmost national forest in the continental United States. We'll hike 38 miles of the Florida Trail in four days, enjoying a route that will take us to seldom-seen parts of the forest. Two layover days will be spent canoeing at Juniper and Alexander springs where alligators and wading birds abound. Two food caches will lighten our loads. (Rated L-M) Leader: Carolyn Williams. Price: \$385; Dep: \$50. [93426]

Superstition Wilderness, Arizona—February 21–27. Exploring Indian rock dwellings and aban-

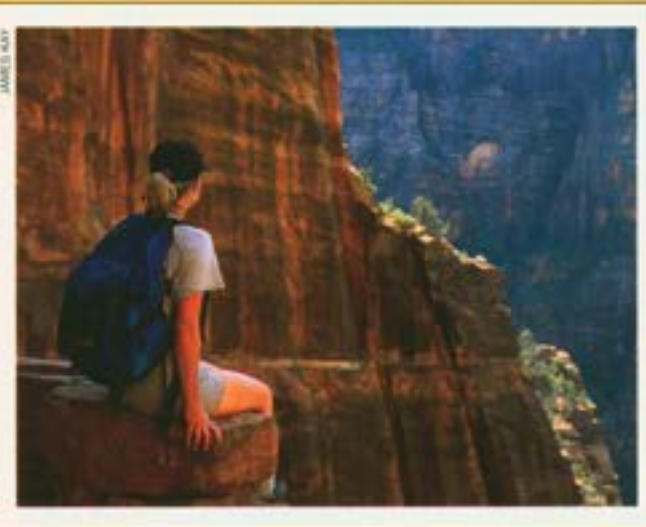
doned prospector digs will add a historical flavor to our trek through the saguaro-clad Superstition Mountains of central Arizona. We'll enjoy mild temperatures and elevated vistas of the Sonoran Desert. Daily elevation gains and losses will be modest, with hiking distances ranging between five and eight miles. One layover day is planned. (Rated M) Leader: Jack Thompson. Price: \$265; Dep: \$50. [93032]

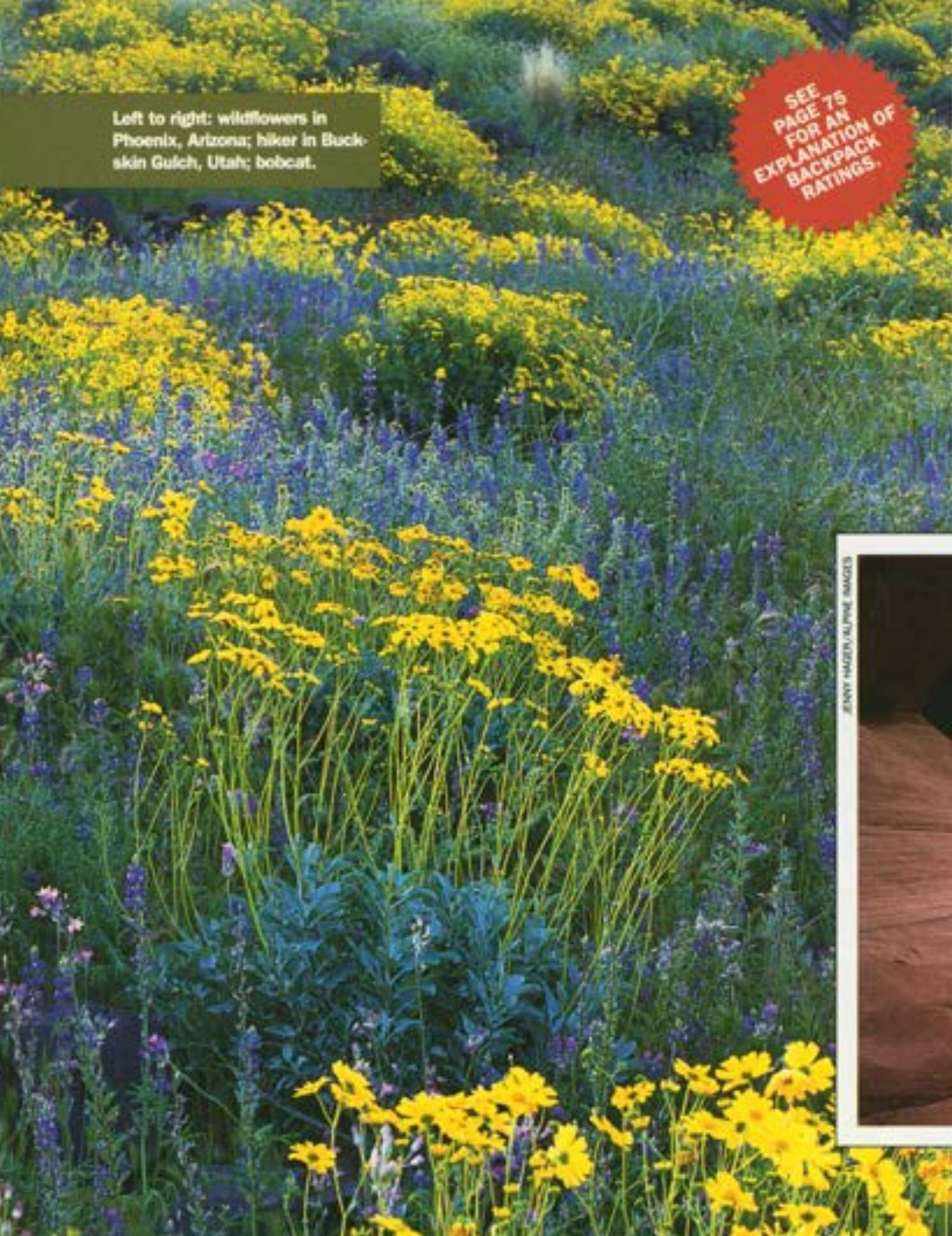
Sonoran Spring, Saguaro and Organ Pipe Monuments, Arizona—April 3–9. After exploring the giant saguaro "forests" and blooming desert of southern Arizona, we will visit nearby Organ Pipe with its unique landforms, sacred Baboquivari Peak, rare desert bighorn sheep, and the aptly named organ pipe cactus itself. Much of this semi-exploratory trip will be cross-country and we will have to carry water, but

solitude and discovery will be our rewards. (Rated M-S) Leader: Rob Jacobs. Price: \$455; Dep: \$50. [93033]

Dirty Devil Sojourn, Southern Utah—April 3–10. With acclaimed backcountry author Steve Allen, our small group of experienced canyoneers will visit many of the rarely explored side canyons off the Dirty Devil River. We will hike down at Burr Point and leave at the Angel Trail. Expect to wade across the Dirty Devil River twice. (Rated S) Leader: Bert Fingerhut. Price: \$545; Dep: \$100. [93034]

Arizona Trail, Superstition Wilderness and Four Peaks Wilderness, Arizona—April 4–10. Follow the trails of prehistoric Indians, Spanish explorers, and 19th-century miners and ranchers. Our route takes us 40 miles along the new Arizona Trail, which will eventually extend 750 miles from Mexico to Utah. Four- to nine-mile daily hikes and frequent altitude changes require good physical condition. Beginners in good shape welcome. (Rated M) Leader: Lee A. Kintzel. Price: \$445; Dep: \$50. [93035]





Left to right: wildflowers in Phoenix, Arizona; hiker in Buckskin Gulch, Utah; bobcat.

SEE
PAGE 75
FOR AN
EXPLANATION OF
BACKPACK
RATINGS.

BOB LUCIANO

Great West Canyon, Zion Park, Utah—April 4–10. Experience the rugged wilderness of Zion's sandstone high country on this trek over high domes, across potholed slickrock, and through narrow and magical canyons. This remote and seldom-visited backcountry of Zion has much to offer the seasoned backpacker. Weather conditions permitting, we'll traverse the spectacular "Subway" as the grand finale. (Rated 5) Leader: David Wilson. Price: \$385; Dep: \$50. [93036]

Sespe Secrets, Los Padres Forest, California—April 10–17. The newly established Sespe

JENNY HAZEN/ALPINE IMAGES



LEADER FAMILY PROFILE

THE DIENGERs

Carol and Howard Dienger joined the Sierra Club in 1958 and began going on chapter outings. They expanded their participation to national outings in 1962 and soon began leading backpack trips to the Sierra. After leading some Wilderness Threshold trips, they decided to begin leading family backpack trips with their two daughters, Christine and Jenny. As Christine and Jenny grew up, they, along with their brother Jordan, became leaders in the program as well. Individually and as a family, the Diengers have led trips in many formats, from family canoe trips to cross-country skiing in Austria to junior backpack trips. Carol serves as Outing Committee Secretary and Chair of the Alaska Subcommittee. She is also one of the driving forces behind the Club's most important leader training event, the Nature Knowledge Workshop. This year Carol and Howard are leading a base camp trip in Alaska (#93121).

Wilderness remains undiscovered despite its proximity to urban Southern California. Those who learn its secrets know of a lonely land of pine-covered mountains, deep canyons, singing streams, swimming holes, and a hot spring. Our moderately paced journey will give us time to fully discover Sespe's little-known treasures. (Rated M) Leader: Ricky Tate. Price: \$275; Dep: \$50. [93037]

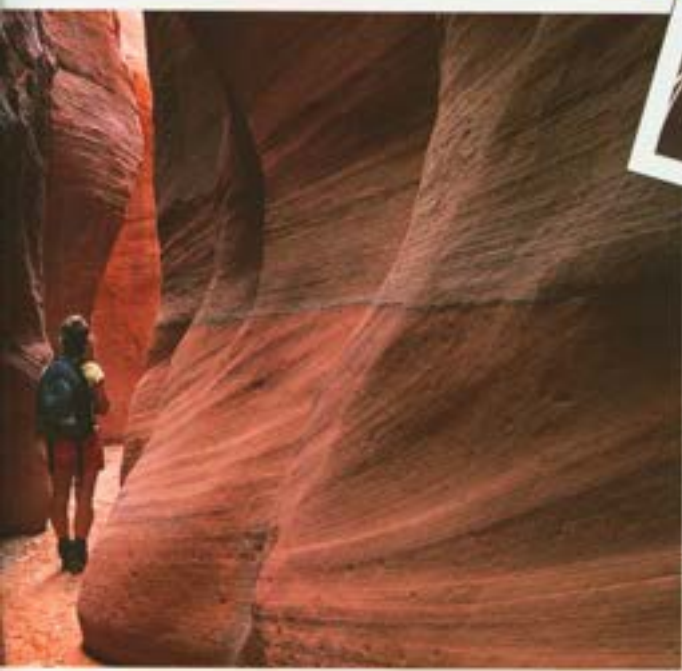
Escalante Canyon, Glen Canyon Recreation Area, Utah—April 11–17. We'll descend through beautiful Harris Wash to the Escalante, with plenty of time for photos and side-canyon exploration in this remote redrock wilderness. There will be frequent stream crossings, warm days,

cool nights. Our exit route via Twenty-Five Mile Canyon tops off an exciting week in the wilderness. (Rated M) Leader: Gary Millsap. Price: \$385; Dep: \$50. [93038]

Exploring the Waterpocket, Capitol Reef Park, Utah—April 11–17. Hoodoos, “goblins,” arches, and temples of stone amid redrock canyons and cascading streams await your exploration in this historical gem of the Southwest. Views of distant, snowcapped peaks, and the long, sunny days and crisp, starry nights of spring provide the ideal backpacking environment.

The Chute of Muddy Creek, San Rafael Swell, Utah—April 11–18. Join our group of seasoned canyoners as we explore remote areas of the San Rafael Swell. Our route will take us through the Chute of Muddy Creek and along the Southern Reef, where we will explore several seldom-trod slot canyons. The trip ends in Chimney Canyon, the most beautiful in the area. (Rated S) Leaders: Tina Welton and Steve Allen. Price: \$460; Dep: \$50. [93041]

Escalante Slots and Slickrock, Glen Canyon, Utah—April 17–25. If corkscrew canyons,



Join the leader in exploring this unique and seldom-visited wilderness area. (Rated M-S) Leader: Don McIver. Price: \$455; Dep: \$50. [93039]

Waterpocket Fold, Capitol Reef Park, Utah—April 10–17. Explore the remote wilderness of the Waterpocket Fold, where slickrock doubles back on itself to produce deep, clear pools and weeping rock walls, and where cracks in the fold become spectacular narrows. We'll explore remote canyons and venture up and along the crest of the Waterpocket, discovering some of its many secrets. This area is the leader's favorite in Utah. (Rated S) Leader: Alix Foster. Price: \$455; Dep: \$50. [93040]

sculpted slabs of sandstone, and photography are your thing, join us for an exciting exploration into the heart of the Colorado Plateau. Experienced cross-country adventurers will hike to and cross the Escalante River, then approach the Waterpocket Fold on a loop through some of southeastern Utah's most remote backcountry. (Rated S) Leader: Howard Newmark. Price: \$445; Dep: \$50. [93042]

Escalante Canyon, Glen Canyon Recreation Area, Utah—April 18–24. Recently called one of the BLM's forgotten places, the Escalante is known for its rugged and varied network of canyons, plateaus, waterpockets and meandering streams. We will take

our time wandering along early historical routes, searching for remnants of Anasazi culture and marveling at amazing geological features. Expect frequent stream crossings, warm days, and cool, crisp nights. (Rated M-S) Leader: Larry Odoski. Price: \$430; Dep: \$50. [93043]

Exploring the Kolob, Zion Park, Utah—April 18–24. In the remote northern section of Zion we hike through narrow canyons of Navajo sandstone and along inviting streams with sand beach campsites. Our week in this seldom-visited wilderness will include an opportunity to see gigantic Kolob Arch. Join us for a journey into challenging Bear Trap Canyon, one of the famous “narrows.” Our menu will be vegetarian. (Rated M) Leader: Mark Taylor. Price: \$360; Dep: \$50. [93045]

Rainbow Bridge and Navajo Mountain, Arizona—April 18–24. Overlooking the San Juan River, the dome of Navajo Mountain rises 10,388 feet on northern Arizona's Navajo Reservation. We travel around the base through a wonderland of winding sandstone canyons, sparkling streams and pools, natural bridges, arches, and spring wildflowers. There will be ample time for photography, enjoying deep

pools, and exploration. (Rated M) Leader: Nancy Wahl. Price: \$350; Dep: \$50. [93046]

Rustler Canyon, Canyonlands Basin, Utah—April 18–24. From the Needles Overlook near Moab, a maze of redrock pinnacles and twisting canyons stretches below. The area, recently proposed for Wilderness status, contains archaeological sites and supports a thriving wildlife habitat. We will explore dramatic canyons, some with walls up to 1,500 feet high. Several layover days provide opportunity to explore Anasazi ruins and search for rock art. (Rated M) Leader: Ted Doll. Price: \$385; Dep: \$50. [93047]

Thunder River and Deer Creek Falls, Grand Canyon Park, Arizona—April 18–24. The remote and less-traveled North Rim offers the adventure hiker the best of the Grand Canyon. After descending into the canyon at Indian Hollow, we cross the Esplanade to Deer Creek Falls. We'll also explore Surprise Valley and Thunder River. Two layover days are planned. For experienced hikers only. (Rated S) Leader: Bob Cole. Price: \$330; Dep: \$50. [93048]

Kanab Canyon and Thunder River, Grand Canyon Park, Arizona—May 1–8. This spring trip begins with a steep but rewarding nine-mile descent to Thunder River, followed by explorations of the canyon's treasures—120-foot Deer Creek Falls, hidden canyons with beckoning pools, the narrows of Jumpup, and a spectacular panorama as we ascend Kwagunt Hollow to Sowats Point. Experienced hikers only; no layover days. (Rated S) Leader: Gene Glenn. Price: \$355; Dep: \$50. [93049]

Anasazi Ruins and an Arch, Southeast Utah—May 2–8. Hiking less than six miles a day through juniper and along small streams and pools, we'll pass Neville's Arch, and camp in groves of whispering cottonwood. On our three layover days, we'll explore ancient Anasazi ruins perched high above Owl and Fish creeks. Steep canyon entry and exit make this trip suitable for experienced backpackers. (Rated LM) Leader: Neil Stufflebeam. Price: \$420; Dep: \$50. [93050]

The Needles, Canyonlands Park, Utah—May 2–8. Diversity and solitude characterize Canyonlands' Needles—naked rock pinnacles banded in orange and white that dominate the landscape. With rock spires, arches, fins, box canyons, grabens, and Anasazi artifacts, this spiderweb of canyons offers limitless shapes and colors. Join us as we discover

er the hidden scenic and archaeological treasures of the backcountry. (Rated M) Leader: Blaine LeCheminant. Price: \$465; Dep: \$50. [93051]

Flora, Fauna, and Rock Faces, Big South Fork River and Recreation Area, Kentucky and Tennessee—May 8–15. Springtime in this area of the Cumberland Plateau bursts with mountain laurel and rhododendron. Barred owls will sing you to sleep and pileated woodpeckers waken you! We will cover a distance of 45 miles against the backdrop of rare rock formations for which the area is noted. One layover day is scheduled. (Rated LM) Leaders: Peg and Lyle Back. Price: \$345; Dep: \$50. [93052]

Arch Canyon, Southeast Utah—May 9–15. Cliff dwellings in high alcoves, side canyons simply made for exploring, and magnifi-

Cactus flowers; left, Bryce Canyon, Utah; right, backpacker in Yosemite.

CONSERVATION CHALLENGE

Bulldozing the Gila Wilderness

Bulldozers are set to invade the Aldo Leopold Wilderness and the neighboring Gila Wilderness, the nation's first such protected area, to build 33 stock-watering tanks and 28 miles of new fencing. All this to accommodate 300 more cows on a wilderness grazing allotment which is grossly overgrazed. The Forest Service says these intrusions are for "resource protection" because they will encourage the livestock to leave streambottoms, which are severely degraded. In many areas, almost all vegetation has been eaten or trampled by cattle. Also in this area is the world's largest population of endangered Gila trout, which suffers from siltation and lack of streambank cover due to grazing. As a solution, in 1983, the Forest Service proposed to reduce the herd by 30 percent, but more recently the agency has responded to the rancher and a savings and loan bank in Texas which have insisted on developing the wilderness to increase the value of their holdings. The Sierra Club is continuing to press for cattle reductions. What you can do: To urge the Forest Service to save these wilderness areas from overgrazing, write to Supervisor, Gila National Forest, 2610 N. Silver St., Silver City, NM 88061. Also consider going on trips #93054, #93092, and #93131.

cent arches await us in this archaeologically significant area. We start up on a ridge overlooking an escarpment, then drop down into the canyon, hiking five to six miles a day. Three nights in one place will allow for leisurely exploration. (Rated L-M) Leader: Belva Christensen. Price: \$385; Dep: \$50. [93053]

Gila and Aldo Leopold Wilderness Areas, New Mexico—May 9–15. As we cross America's oldest wilderness areas, we travel from canyons with rattlesnakes and yucca to the high country of elk, aspen, and vistas of snowy peaks. Slip into steamy hot springs, roam expansive stands of ponderosa pine, discover Mogollon Indian ruins, or relax in a wildflower meadow. Our 50 miles include some river wading. (Rated M-S) Leader: David Morrison. Price: \$350; Dep: \$50. [93054]

Natural Splendor in Dark Canyon, Utah—May 9–15. Aquamarine plunge pools, waterfalls, ferns, moss, and lush green foliage are only some of the natural wonders to be found at the bottom of narrow, deep, colorful, and remote Dark Canyon. Two layover days are scheduled for photography, swimming, or relaxing among the splendors of this tranquil place. Backpacking experience required. (Rated M) Leader: Gary Millsap. Price: \$405; Dep: \$50. [93055]

North Rim Sampler, Grand Canyon Park, Arizona—May 16–23. A classic introduction to the Grand Canyon's remote North Rim. Backpacking, dayhiking, and car-camping, we'll sample the North Rim's treasures: magnificent views, lush forests, sculpted canyons, wildflowers, hanging fern gardens, wildlife,



and crystal desert springs. (Rated M) Leader: John Sherman. Price: \$425; Dep: \$50. [93056]

The Black Forest Trail, Tiadaghton Forest, Pennsylvania—May 23–29. Enjoy spring wildflowers, mountain laurel, a balsam fir meadow, and lush woodland settings on this 42-mile loop. We'll hike six to eight miles each day, and on several nights will camp by a trout stream. A food cache mid-point will lighten our load. Well-prepared beginners welcome, along with laid-back veterans. (Rated M) Leader: Gale Maleskey. Price: \$315; Dep: \$50. [93130]

Dark Canyon Wilderness, Utah—May 23–29. Remote and infrequently traveled, this splendid canyon starts with aspen and pine at 8,000 feet and descends into desert as it empties into Lake Powell (3,700 feet). As time

and weather allow, participants will be free to explore side canyons, enjoy the plentiful plunge pools and waterfalls, or ponder towering sandstone walls. This trip is a sure delight for wildflower and photography enthusiasts. (Rated M) Leader: Barry Morenz. Price: \$410; Dep: \$50. [93057]

Land of Enchantment, Gila Wilderness, New Mexico—May 29–June 6. Where can you find ponderosa pine, hot springs, bears, cliff dwellings, javelinas, and very few people? Right—the Gila Wilderness, the nation's first designated wilderness. On our 50-mile loop (two layover days) we explore the headwaters of the Gila River, appreciating sunshine, rivers meandering through deep canyons, and the legacy of Geronimo. (Rated M) Leader: Gary Swanson. Price: \$545; Dep: \$100. [93131]

Yosemite North Rim Sampler, Sierra—June 7–11. A late spring stroll from Yosemite Valley up to the north rim and back down are just what you need to get your hiking wind and legs in shape. Visit El Capitan, Eagle Peak, and the top of Yosemite Falls. Enjoy a unique glimpse of Bridalveil Fall. Late snow may make this trip more difficult than projected. (Rated L-M) Leader: Bob Berges. Price: \$185; Dep: \$50. [93132]

Waterfalls, Pools, and Wildflowers, Cherry Creek Canyon Sampler, Sierra—June 11–15. Granite ramps, glacial polish, and water that varies from soothingly calm to a crashing roar characterize the beauty of the Cherry Creek area. After a long first day, we go shorter distances off-trail, with opportunities for swimming, exploring the creek and lakes, rock scrambling, and relaxing.

Early wildflowers and hearty vegetarian-accommodating cuisine also reward experienced backpackers. (Rated L-M) Leader: Libby Dresel. Price: \$190; Dep: \$50. [93133]

Pacific Crest Trail, Lassen to McArthur-Burney Falls Park, California—June 12–19. We'll hike 63 miles of the Pacific Crest Trail in Northern California. The tread goes along the Hat Creek Rim escarpment, with views of cinder cones and other volcanic features. There will be an optional hike to the top of Mt. Lassen and a visit to Burney Falls, which Theodore Roosevelt called the eighth wonder of the world. (Rated M) Leader: Ben Fleming. Price: \$325; Dep: \$50. [93134]

Back Door to Humphreys Basin, Sierra Forest, Sierra—June 17–26. Follow the pine-scented

breezes to Humphreys Basin! After ferrying across Florence Lake, we'll follow the John Muir Trail north over Selden Pass, leaving the trail at Seven Gables Lakes. Spend your two layover days among the basin's many lakes before heading back via Piute Canyon. Our last afternoon's soak in a hot spring will cap off a perfect start to your summer. (Rated L-M) **Leader:** Diane Cook. **Price:** \$405; **Dep:** \$50. [93135]

Leadership Training, Zion Park, Utah—June 20–26. Utah's Zion National Park is the locale for our third annual training seminar sponsored by the Southwest Subcommittee. Applicants committed to leadership in the National Outing program are encouraged to participate. Comprehensive leadership skills required; see trip brochure for qualification criteria and trip fee reimbursement policy. (Rated M-S) **Leader:** Don McIver. **Price:** \$345; **Dep:** \$50. [93136]

Minaret Magic, Ansel Adams Wilderness, Sierra—June 20–27. The Minarets, along with fabled Mt. Ritter and Banner Peak, are perhaps the most impressive sights in the Sierra Nevada, and provide a spectacular backdrop for our 40-mile hike from Devils Postpile National Monument. Here in the watershed of the San Joaquin is a land of pure magic, and with substantial high-route cross-country travel, we'll experience the best of it. (Rated M-S) **Leader:** Scott Kingham. **Price:** \$320; **Dep:** \$50. [93137]

Eagle Peak, South Warner Wilderness, California—June 21–30. Take an early trip to this little-known and isolated area of northeast California. This will be a loop trip with little retracing of steps. Weather permitting, we'll attempt a couple of the higher summits on layover days. Its unique geology invites a visit to Lava Beds National Monument in conjunction with the trip. (Rated L) **Leader:** Bob Berges. **Price:** \$360; **Dep:** \$50. [93138]

Escape to the Escalante, Glen Canyon Recreation Area, Utah—June 21–30. Discover the ancient world of the Anasazi Indians in the hidden alcoves, sandstone arches, hanging gardens, slot canyons, cascading waterfalls, emerald pools, and petroglyphs

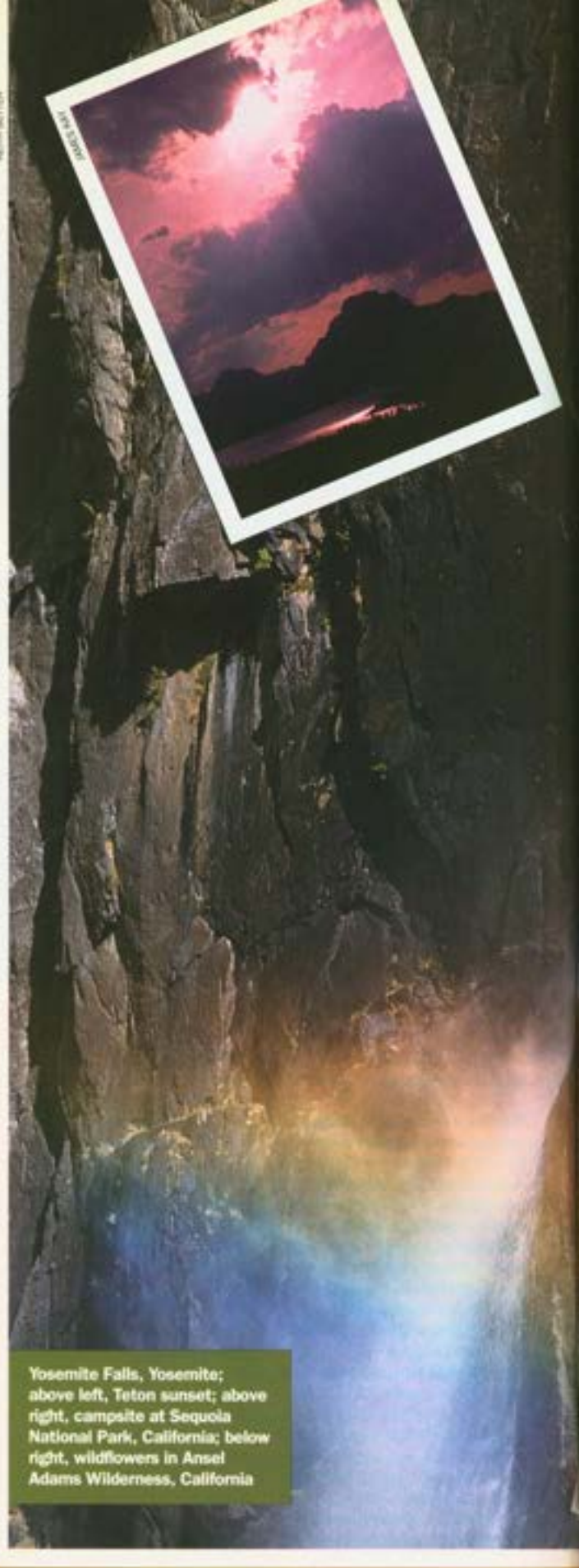
and ruins of Escalante Canyon. Beginning on the Aquarius Plateau, we'll descend rapidly down Sand Creek and continue down the Escalante. Layover days will allow us time for leisurely exploration, refreshing swims, and boulder-scrambling. A food cache will lighten our loads. (Rated S) **Leader:** Michelle Line. **Price:** \$495; **Dep:** \$50. [93139]

Grand Teton Trek, Grand Teton Park, Wyoming—June 26–July 4. From Jackson we easily access our circle route, which will take us to the west of the astounding Teton range. We'll travel dramatic Death Canyon and broad Cascade Canyon, and will have three layover days to explore or relax, two of them behind The Grand Teton. Our final route will be determined by snow conditions in the passes. (Rated M-S) **Leader:** Roger Grissette. **Price:** \$425; **Dep:** \$50. [93140]

The Round Valley All-Purpose Sampler, Tahoe Forest, Sierra—June 30–July 4. Imagine that you've just backpacked in four miles to a wondrous valley at the foot of a 9,100-foot peak near Donner Pass. Conjure a vision of leisurely dayhiking without backpacks, or watching birds in the wide-open meadow until it's time to pack out. Mmmm...Now say it out loud: "Round Valley, here I come!" (Rated L) **Leader:** Jim Maas. **Price:** \$170; **Dep:** \$50. [93141]

Great Western Divide South, Sequoia Park and Golden Trout Wilderness, Sierra—July 1–10. We'll stage our trip from Mineral King Valley, venturing east and south into magnificent timberline country beyond the Great Western Divide. Our route will take us to sun-dappled lakes, verdant meadows, inspiring vistas, and high forests of foxtail pines. Several short moving days and two layover days afford ample time for exploration or leisure. For experienced backpackers only. (Rated M-S) **Leader:** Matt Hahne. **Price:** \$360; **Dep:** \$50. [93142]

Lake-Hopping in the Sierra II, Emigrant Wilderness, Sierra—July 3–11. Picture yourself relaxing beside a mountain lake set against the beautiful scenery of the Emigrant Wilderness. Your only problem will be which of the numerous nearby lakes to explore. We'll have several long



Yosemite Falls, Yosemite; above left, Teton sunset; above right, campsite at Sequoia National Park, California; below right, wildflowers in Ansel Adams Wilderness, California

moving days, but a pack drop and one layover day will make this trip a real joy. So leave your worries behind and join us on this swimming, fishing, and lake-hopping extravaganza. (Rated L-M) Leaders: *Laura and Sy Gelman*. Price: \$400; Dep: \$50. [93143]

Circuit of Lakes Photography, Yosemite Park, Sierra—July 6–16. We will hike less-frequented trails and visit wilderness settings worthy of serious photography. Participants will have ample time to practice composition, scenics, and macro arts with help from our instructor. Campsites on layover days will be near photogenic lakes. There will also be time to pursue other activities. (Rated L-M) Leader: *Wes Reynolds*; Instructor: *Phil Binks*. Price: \$480; Dep: \$50. [93144]

Tahoe Crystal Range Loop, Desolation Wilderness, Sierra—July 10–18. High above the south-west shore of Lake Tahoe, 130 lakes crowd into 100 square miles of mountain scenery. This paradise is ours to explore as we hike across high passes, camp near beautiful lakes, and enjoy photography, fishing, swimming, and relaxing. Two layover days give us time to climb Mt. Tallac (9,983 feet). (Rated L-M) Leader: *Modesto Piazza*. Price: \$385; Dep: \$50. [93146]

Ha-de-ron-dah Wilderness, Adirondack Park, New York—July 11–16. Trails over rolling hills and through boulder-filled valleys connect a dozen ponds, with beavers, raccoons, otters, loons, and water lilies. Along the way are glacial eskers, the edge of an outwash plain, several types of forest, places to observe wetland life, and a mica mine. One layover day is planned during our 30-mile loop. (Rated L-M) Leader: *Sally Daly*. Price: \$285; Dep: \$50. [93147]

Crest Byways, Glacier Peak Wilderness, Washington—July 11–17. You won't need pickax, crampons, or binoculars to experience this wilderness area with its mining relics, glacial peaks, and high country views. We'll start on the Pacific Crest Trail, then branch off to enjoy Image Lake (which mirrors Glacier Peak) and glacier-fed Lyman Lake, and to explore Miners Ridge. Our finish at Holden Village promises several soothing surprises. (Rated M) Leader: *Nadine Sanders*. Price: \$440; Dep: \$50. [93148]

Clarks Fork of Yellowstone Canyon Adult-Teen Adventure, Wyoming—July 11–18. A trip exclusively for teenager-adult (parent, grandparent, friend) teams or two teens and one adult. The wildest river in the Lower 48 (designated Wild and Scenic in 1991) has carved a canyon with 1,200-foot walls. We'll photograph wildflowers and waterfalls as we hike the rim for 32 miles with four descents to explore, swim, fish, and enjoy good friends. (Rated L) Father-Son Leaders: *Dale and Craig Kemmerer*. Price: \$325; Dep: \$50. [93149]

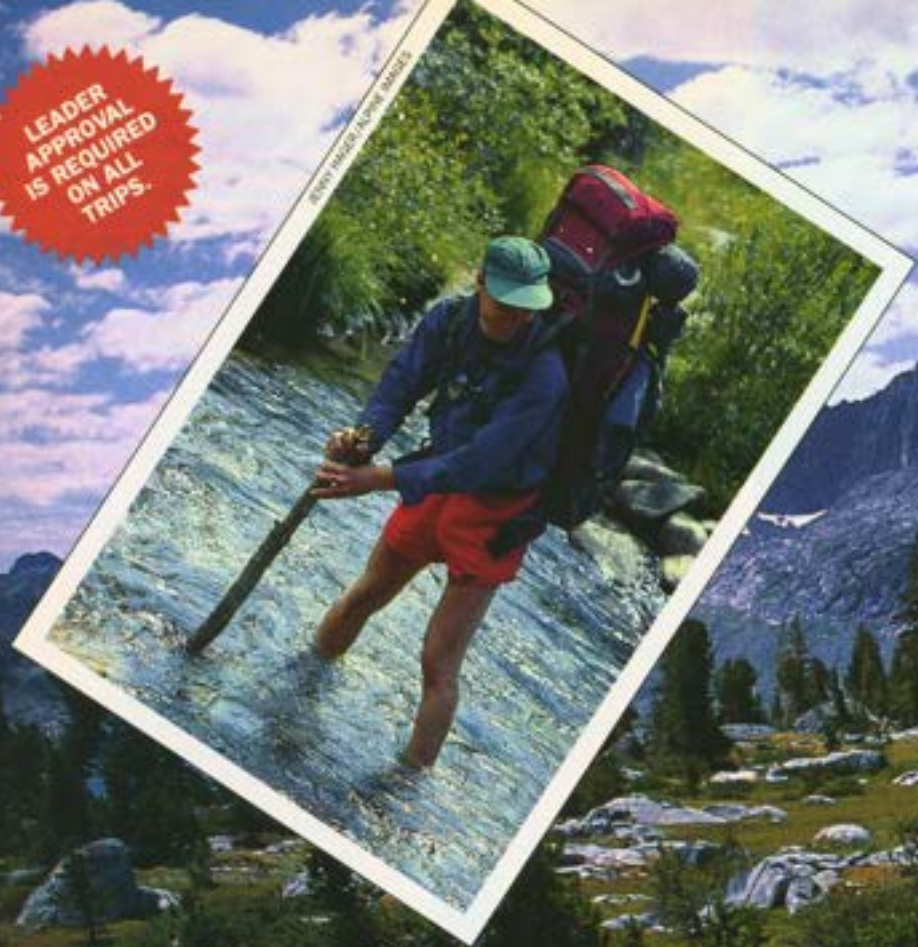
Silver Lake Beginner's Trip, Devils Postpile Monument, Sierra—July 11–18. Our 21-mile hike is designed for the wilderness

Birthplace of the Merced, Yosemite Park and Ansel Adams Wilderness, Sierra—July 8–17. A river as magical as Yosemite's Merced could only be born in a sacred land of snowy sky-piercing peaks, iridescent lakes, and shining granite. We will explore the headwater basins of the Merced's Main and South forks, rambling from Isberg to Chiquito passes, and climb into the towering Clark Range, where views across all of Yosemite await us. (Rated M) Leader: *Ricky Tate*. Price: \$340; Dep: \$50. [93145]



LEADER
APPROVAL
IS REQUIRED
ON ALL
TRIPS.

RENEE HARRIS/NOVUS IMAGES



novice. Short hiking days and beautiful scenery will be our goals. Bring your fishing pole and plenty of film for your layover days at Davis and Thousand Island lakes. This will be a great first-time trip, so come along and learn the "secrets" of backpacking the Sierra. (Rated L). Leader: *Monava Tagashira*. Price: \$315; Dep: \$50. [93150]

High Uintas Wilderness, Utah—July 13–21. Come explore the only major east-west mountain chain in the United States. Our 62-mile loop takes us past streams, lakes, cirques, alpine tundra, and plentiful and varied wildlife. One of our two layover days offers an optional climb of Utah's highest point, Kings Peak (13,528 feet). Campsites will be between 10,000 and 11,000 feet. Recommended for experienced backpackers only. (Rated M-S). Leader: *Gene Goldberg*. Price: \$460; Dep: \$50. [93153]

High Sierra Panorama, Ansel Adams and John Muir Wildernesses, Sierra—July 13–22. The majesty of Sierra high country surrounds us for ten days on our serpentine course along 50 miles of the crest. Our route combines the Mammoth Crest, the Silver and Mono divides, and a sampling of the Bear Lakes. Finally, we'll draw from the spirit of Granite Park before leaving via Pine Creek. The rating reflects elevation; pace will be moderate. (Rated M-S). Leader: *Jim Watters*. Price: \$345; Dep: \$50. [93154]

Hot Springs, Waterfalls, and Wildflowers, Yellowstone Park, Wyoming—July 15–21. The Bechler area of southwest Yellowstone is called "waterfalls country." The Pitchstone Plateau soaks up precipitation, releasing it as gushing waterfalls, some 200 feet high. Wildflowers will abound in the marshy meadows. A naturalist will guide us on this

50-mile loop at 6,000- to 9,000-foot elevations. Well-conditioned beginners, adventurous veterans, teenagers 16 and older are welcome. (Rated M). Leader: *Melinda Goodwater*. Price: \$495; Dep: \$50. [93155]

The High, Lonesome Wind River Range, Wyoming—July 17–25. Still in the Ice Age, the northern Wind Rivers are home to the largest river glaciers in the Rockies. At elevations over 10,000 feet, our off-trail route will be along ice-carved granite walls and the spires of Gannett Peak. Our leave-no-trace techniques will preserve this sensitive alpine terrain. Our assistant's culinary skills will provide the fuel for this strenuous adventure. (Rated S). Leader: *Marie Cecchini*. Price: \$640; Dep: \$100. [93156]

Lakes and Peaks Pilgrimage, Silver Divide, John Muir Wilderness, Sierra—July 17–25. Mar-

vel at giant junipers, fields of colorful wildflowers, and moon-scape terrain. We will cover 47 miles (some cross-country) past a multitude of High Sierra lakes and under the towering peaks of the Silver Divide. A combination of short and long hiking days and two layover days will give us time to enjoy the Sierra solitude and give adventurous souls time to explore. (Rated M). Leader: *Sarah Bolles*. Price: \$335; Dep: \$50. [93157]

Along the Emigrant Trail, Emigrant Wilderness, Sierra—July 18–25. Follow in the footsteps of the California emigrants on this 38-mile trek through some of the Sierra's most dramatic scenery. From the trailhead near Pinecrest, we will amble through lake-dotted granite bowls and fragrant high country forests, enjoying two layover days to appreciate the area's charms. Great food is another plus. Well-conditioned

RENEE HARRIS/NOVUS IMAGES



Banner Peak above Thousand Islands Lake, Sierra; left, crossing stream in Collegiate Mountains, Colorado; right, morning glories.



BOB LUDWIG

High Granite Ramble II, John Muir Wilderness, Sierra—July 23–31. The adventure continues! Join this year's cross-country exploration of the John Muir Wilderness high country. We will visit Humphreys Basin, Bear Lakes, and Granite Park, arriving early enough at most campsites to please fishermen, botanists, and readers. Layover days will allow for peak-bagging and dayhikes. Ideal for experienced alpine backpackers who enjoy gourmet meals. (Rated M). Leader: *Stuart Simon*. Price: \$365; Dep: \$50. [93161]

San Juan Mountains, Weminuche Wilderness, Colorado—July 24–31. The San Juan Mountains of southwestern Colorado offer the well-conditioned hiker the very best in alpine hiking. Whether exploring abandoned mines, scaling 14,000-foot Mt. Windom, fishing for supper in trout-filled lakes, or flagging the historic Durango–Silverton narrow-gauge train for our descent into Durango, our 45-mile route will let us experience it all. (Rated M-S). Leader: *Gene Glenn*. Price: \$360; Dep: \$50. [93162]

Sonora Pass to Tuolumne Meadows, Yosemite Park and Tol-yabe Forest, Sierra—July 24–31. Follow the Tahoe–Yosemite Trail from the stark volcanic landscape of the Sonora Crest to the granite kingdom of Yosemite's

north country. Admire glacial lakes, granite-walled canyons, and flower-strewn meadows. Photographic opportunities abound on this 76-mile trip. Enjoy a layover day on the sandy beach of the "Benson Riviera." A packer assist will lighten our load the first day. (Rated M-S). Leader: *Carol McVeigh*. Price: \$330; Dep: \$50. [93163]

Women's Beginner Backpack, Ansel Adams Wilderness, Sierra—July 24–31. Beginners and experienced backpackers alike will find magnificent views within easy reach in this lake-studded wilderness just south of Yosemite National Park. Elevations range from 7,000 to 10,500 feet over our 25-mile ramble. We'll hike short distances on- and off-trail, leaving most afternoons free to relax, explore, and perfect wilderness skills. Good physical preparation is required. (Rated L). Leader: *Carol Hake*. Price: \$290; Dep: \$50. [93164]

Wind River Loop/Cirque of the Towers, Bridger and Popo Agie Wildernesses, Wyoming—July 24–August 1. Anyone who's been to the Wind Rivers raves about the huge granite walls and glacial valleys of an area that's made for photography. Our 40-mile backpack will take us to Cirque of the Towers in the heart of the Bridger and Popo Agie wildernesses. Three layover days

water. Swim and fish daily in sparkling lakes. This trip is suitable for beginners or veteran hikers. (Rated L). Leader: *Bob Ruff*. Price: \$285; Dep: \$50. [93159]

Maroon Bells-Snowmass Wilderness, Colorado—July 19–23. Traveling among the much-photographed Maroon Bells and through high-altitude valleys carpeted with wildflowers, our route will cross five passes over 12,000 feet. On our layover day, hike 14,092-foot Snowmass Mountain or simply relax by the lake. Hearty vegetarian cuisine will complement our trek. Come enjoy the best the Rockies have to offer! (Rated M-S). Leader: *Kim Lardizabal*. Price: \$305; Dep: \$50. [93160]

beginners and easy-going veterans are welcome. (Rated L-M). Leader: *Carolyn Kinet*. Price: \$290; Dep: \$50. [93158]

Desolation Wilderness Wonderland, Sierra—July 18–25. Spend ten days in the northern Sierra Nevada lakes, mountains, and forests, enjoying panoramic views of Lake Tahoe. See where the first forty-niners appeared, and cross the route of the pony express. Visit Rubicon Springs, a resort famous for its bottled

CONSERVATION CHALLENGE

Protecting John Muir's "Range of Light"

The Sierra Nevada, the longest unbroken chain of mountains in the U.S., is one of the world's great natural wonders. It extends 400 miles north to south and encompasses a remarkable spectrum of watersheds, wildlife habitats, and unique geologic formations, including the Lower 48's highest mountain and deepest canyon. The range possesses not only one of the most varied coniferous forests in the world, but also many other biological communities, from high alpine terrain to oak woodlands, grasslands, and chaparral. Unfortunately, the range's panoramic views are being clouded by air pollution, and its other resources are increasingly impacted by extractive industries and overuse. Once free-flowing rivers are now dammed, mining and grazing are irreparably damaging the landscape, and once seemingly endless ancient forests have been reduced to a tiny fraction of their former splendor. What you can do: Federal legislation to protect the remaining ancient forests and watersheds in the Sierra is our best chance to turn around these devastating trends. To find out more about this legislation and other threats to the Sierra, contact Sierra Club's Northern California Field Office at 4171 Piedmont Ave, #204, Oakland, CA 94611, 510-654-7847. Also consider going on one of our many outings in the Sierra. See the Geographic Index on pages 132–135.

will give us plenty of time to fish and explore. (Rated M-S). Leader: Steve Kelton. Price: \$470; Dep: \$50. [93165]

The Other Side of the Bells: Maroon Bells-Snowmass Wilderness, Colorado—July 25–31. On this loop trip near Aspen, experience Colorado's spectacular high country without the crowds. Terrain will range from aspen and pine forests to flower-filled alpine meadows and high passes. Though daily mileages are moderate, elevation—and elevation gains—make this trip a challenge. Be prepared for countless camera opportunities and lasting memories. (Rated M-S). Leader: Jim Urban. Price: \$270; Dep: \$50. [93166]

Mineral King Cross-Country Ramble, Sequoia and Kings Canyon Parks, Sierra—July 25–August 1. Exciting cross-country travel in the Great Western Divide is the prominent feature of this eight-day, 25-mile trip. Short moving days allow us time to explore the many lakes and peaks. You'll find dramatic hiking, serene contentment, and outstanding meals. Two layover days at timberline lakes are planned. This trip is best suited for hikers with previous cross-country experience. (Rated M). Leader: Andy Johnson. Price: \$290; Dep: \$50. [93167]

High Sierra Photography, John Muir Wilderness, Sierra—July 22–29. The eastern Sierra abounds with lakes, streams, meadows, flowers, and dramatic summits, and photographer Jim Clark will show you how to turn them into marvelous pictures. Basic and advanced wilderness photography will be integrated into all activities, with some

cross-country travel and three layover days for camera work, rambling, peak-climbing, or loafing. Mules will carry our food to the first camp. (Rated L-M). Leader: Jim Gilbreath. Price: \$410; Dep: \$50. [93168]

Seven Gables and Thirteen Bear Lakes, John Muir Wilderness, Sierra—July 26–August 4. Hiking along scenic Bear Creek up into the spectacular Bear Lakes Basin is only one highlight of this trip. 13,000-foot peaks abound, and cross-country Gabbit Pass (12,250 feet) will be a literal and figurative high point. Some short moving days and two layover days allow for fun without our packs. Food drop included. (Rated L-M). Leader: Patty Biasca. Price: \$395; Dep: \$50. [93169]

Silver Divide Loop, John Muir Wilderness, Sierra—July 30–August 7. The Silver Divide has glacial valleys, lakes, tarn-dotted meadowlands, spectacular views, and some of the best fish-

ing in the Sierra. Our 37-mile loop samples all of these, and two layover days give us extra time to enjoy them. Great food is an added enticement. A packer assist lightens the first day. Motivated, prepared beginners are welcome. (Rated L-M). Leader: Tom Hilton-Gray. Price: \$380; Dep: \$50. [93170]

Lost Trail to the Tablelands, Kings Canyon and Sequoia Parks, Sierra—July 31–August 7. A seldom-used "lost trail" route through Ferguson Meadow leads to the dramatic Tablelands straddling Kings Canyon and Sequoia parks. A veritable photographer's paradise in the heart of the Sierra offers views in all directions. There will be at least two layover days for exploring, climbing, swimming, or fishing. A packer drop will lighten loads on our moderate cross-country route (elevation approximately 10,000 feet). (Rated L-M). Leader: Phil Gowing. Price: \$350; Dep: \$50. [93171]



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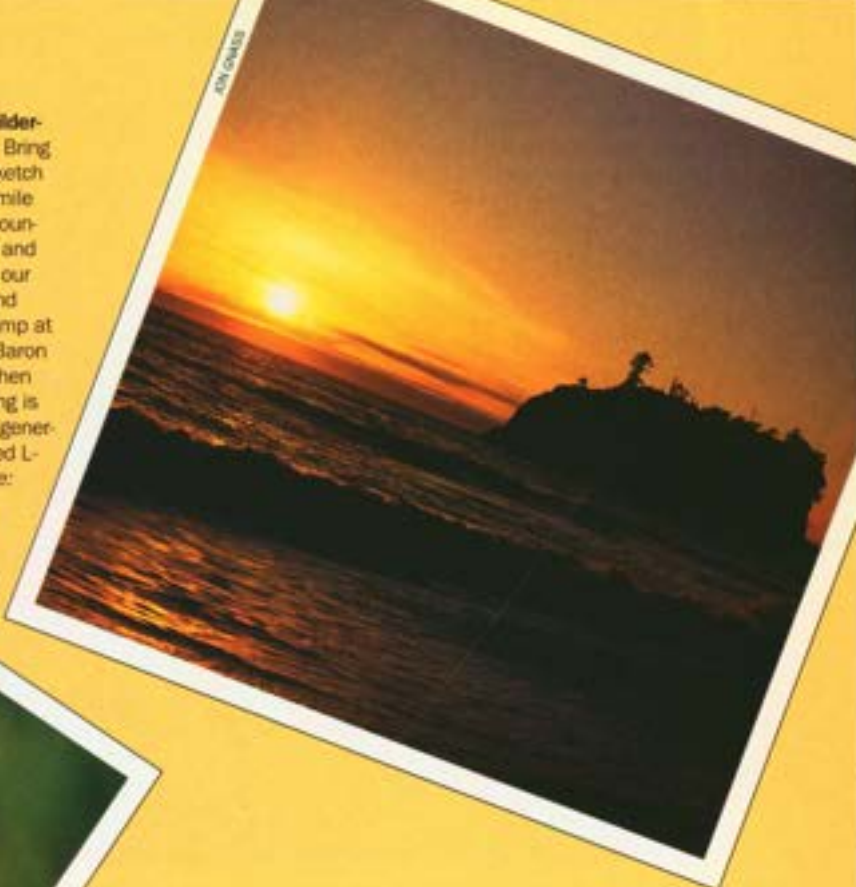
BOB ANDERSON

Man crossing bridge in Olympic Park, WA; left, hikers resting by Blue Lake, Colorado; right, Gulf Fritillary; far right, Ruby Beach, Olympic National Park, Washington.

Women's Beginner Backpack, Ansel Adams Wilderness, Sierra—July 31–August 7. See description for trip #93164 above. Leader: *Alice Kulka*. Price: \$290; Dep: \$50. [93172]

Wildflowers of the San Juans, Weminuche Wilderness, Colorado—August 1–7. We'll pass the headwaters of the Rio Grande and enjoy a dazzling wildflower display on our 36-mile backpack (with 9,000-foot elevation gain) over the Continental Divide (12,460 feet). We'll ride the famous Durango-Silverton narrow-gauge railroad to and from our two trailheads. Our layover day in the Chicago Basin is for fishing, loafing, or peak-bagging. (Rated M) Leader: *Gerry Dunie*. Price: \$495; Dep: \$50. [93173]

Artist's Loop, Sawtooth Wilderness, Idaho—August 1–8. Bring your paints and brushes, sketch pad, or camera on this 35-mile loop through pristine lake country. We'll spend afternoons and two layover days practicing our crafts among high peaks and sparkling streams. We'll camp at Sawtooth Lake, layover at Baron Lake and Tenlakes Basin, then circle home. The trout-fishing is excellent too. Altitudes are generally below 9,000 feet. (Rated L-M) Leader: *J. B. Zirker*. Price: \$435; Dep: \$50. [93176]



Hopkins Basin Traverse, Inyo Forest, Sierra—August 1–8. On this 32-mile trip (11 cross-country miles) we explore several beautiful high country lakes. A packer assist the first day sees us up to Big McGee Lake (10,800 feet), then cross-country to Hopkins Basin and Grinnell Lake.

Two layover days give us time to fish, dayhike, or peak-bag. Bring plenty of film and a hearty appetite. (Rated M) Leaders: *Monava and Bruce Tagashira*. Price: \$340; Dep: \$50. [93179]

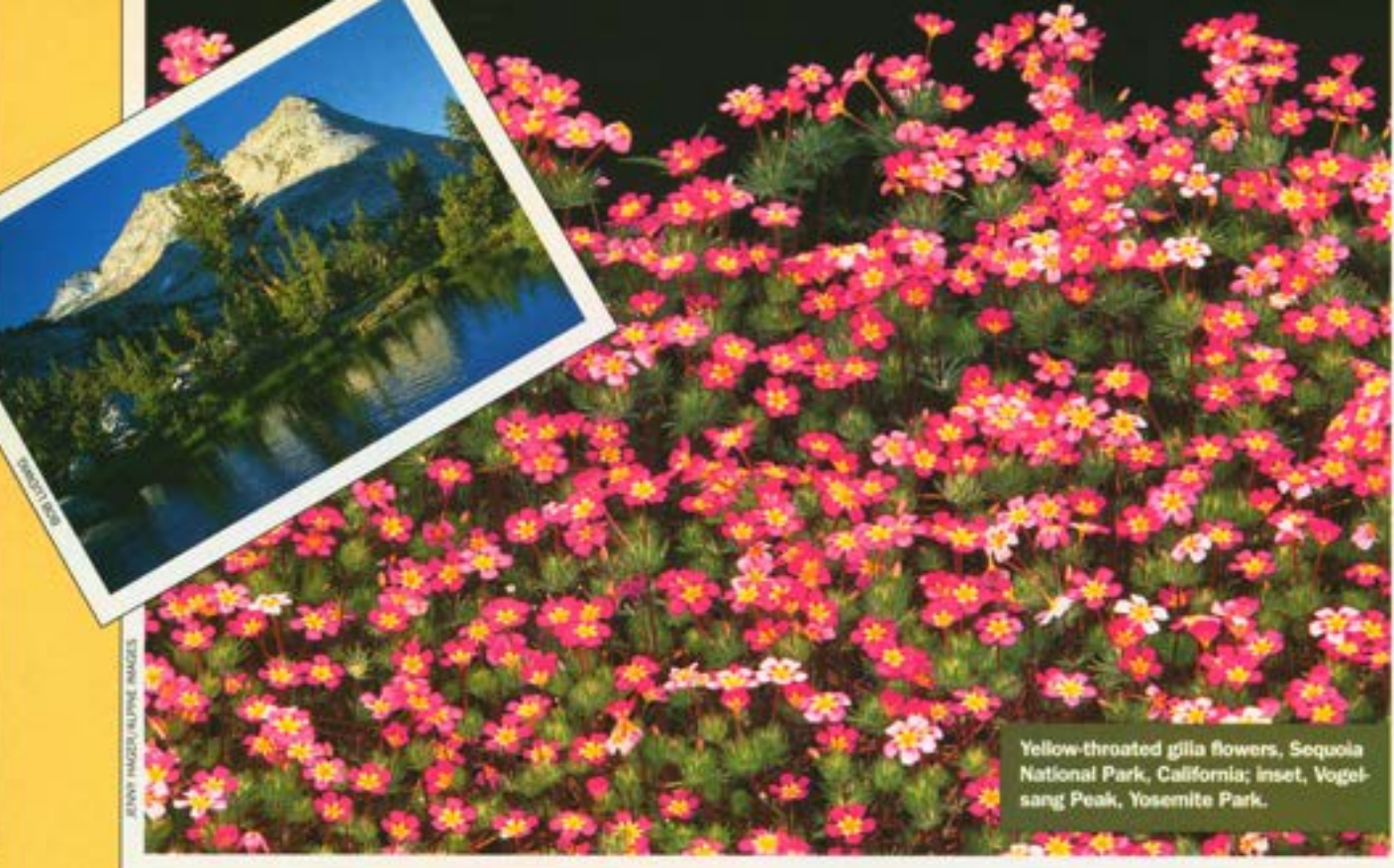
Koip Crest Loop, Yosemite Park and Ansel Adams Wilderness, Sierra—August 1–8. Golden meadows, glacial tarns, and glorious vistas surround us as we circle Koip and Kuna peaks on the Sierra's eastern crest. Our 40-mile route from Dana Meadows to Tuolumne Meadows via 12,300-foot Koip Pass, Thousand Island Lake, and Lyell Canyon includes two layover days. A packer drop allows for lighter loads and some deluxe cuisine. (Rated L-M) Leader: *Jack Wickel*. Price: \$330; Dep: \$50. [93180]

Lakes, Rainforest, and Seacoast, Olympic Park, Washington—August 1–8. All this and two layover days? Where else but Olympic National Park? Sample this incredible variety on our trip through the Seven Lakes Basin

high country and the Hoh rainforest, followed by a relaxing bath at Sol Duc Hot Springs, and finishing on the rugged north end of the park's coastal strip. (Rated M) Leaders: *Alice and Dunbar Susong*. Price: \$400; Dep: \$50. [93181]

Matterhorn and Sawtooth: The Yosemite North Country, Sierra—August 1–8. Northern Yosemite provides mountain grandeur with its cascading rivers, ice-blue lakes, and abundant trout. Two layover days and a packer assist give us leisure and energy to explore. From our entrance at Virginia Lakes to our exit at Twin Lakes, we will experience all the beauty this area has to offer, and eat well besides. (Rated L-M) Leader: *Linda Jordan*. Price: \$360; Dep: \$50. [93182]

Squaretop Mountain Loop, Bridger Wilderness, Wyoming—August 7–14. The wildflowers are spectacular and the fishing fantastic in this section of the Bridger Wilderness. Starting at the Green River Lakes Campground, we will make a 45-mile loop, camping at several lovely alpine lakes, and fishing, climbing Squaretop Mountain, or just relaxing and smelling the flowers on layover days. (Rated M) Leader: *Barbara Beaumont*. Price: \$385; Dep: \$50. [93183]



Yellow-throated gilia flowers, Sequoia National Park, California; inset, Vogel-sang Peak, Yosemite Park.

Ionian Basin Peakbag Odyssey, Kings Canyon Park, Sierra—August 7–15. Enjoy an adventurous trek between the Goddard and Black divides on this scenic foray into a basin made for experienced peak enthusiasts. Guarded by the jet-black sentinels of Scylla and Charybdis, we will camp above 11,000 feet and spend three layover days as “acrophiles” in pursuit of peaks and high alpine lakes. (Rated M-S) *Leader: Terry Flood. Price: \$370; Dep: \$50. [93184]*

Yosemite’s Glacial Glory, Yosemite Park, Sierra—August 8–14. John Muir considered Yosemite’s glaciated Merced and Red peaks among the most glorious areas he ever explored. From Tuolumne Meadows, a long first day takes us over Vogelsang Pass. We continue over Red Peak Pass, down Illilouette Creek, and end in Yosemite Valley. The granite basin south of Mt. Lyell is a layover destination. (Rated M) *Leader: Charles W. Hardy. Price: \$260; Dep: \$50. [93185]*

Cirque Crest Circle, Kings Canyon Park, Sierra—August 8–15. This trip is for those who like to hike and want to experience a variety of High Sierra terrain. We’ll follow the South Fork of the Kings

River, cross to the Middle Fork over Mather Pass, and return over Granite Pass. Hiking every day, we’ll cover 75 miles on trail. (Rated S) *Leader: Chuck Schmidt. Price: \$290; Dep: \$50. [93186]*

Heart of the Bob Marshall, Bob Marshall Wilderness, Montana—August 8–16. Explore this 1-million-acre mountain wilderness straddling the Continental Divide. We’ll ascend the North Fork of the Sun River to Larch Hill Pass, walk along the base of the Chinese Wall, and return via the West and South forks of the Sun River. Three layover days are reserved for peak-bagging, fishing, and wildlife-viewing. (Rated S) *Leader: Dave Derrick. Price: \$410; Dep: \$50. [93187]*

Northern Yosemite, Hoover Wilderness, Sierra—August 8–17. The sweeping country encompassing this wildest and least-visited part of Yosemite showcases the spectacular High Sierra: granite crests, glacier-carved canyons, alpine lakes, forests, and flowers. Our grand adventure crosses three 10,000-foot passes and four drainage systems. A mid-trip layover day and a packer assist will ease our 57-mile journey, all on-trail. (Rated L-M) *Leader: Bill Clark. Price: \$405; Dep: \$50. [93188]*

Land of Seven Gables, John Muir Wilderness, Sierra—August 10–17. We will walk the high country, where magical lakes meet soaring spires. Low daily mileages and remote alpine campsites characterize our 38-mile circuit of Gemini and the Pinnacles from Florence Lake. Three or four days involve cross-country travel, and one or two layovers allow for swimming, exploring, peak-climbing, or relaxation. (Rated M-S) *Leaders: Frances and David Reneau. Price: \$325; Dep: \$50. [93189]*

Wild Yosemite Northwest, Yosemite Park and Emigrant Wilderness, Sierra—August 11–21. Take a walk on the wild side on this exploration of two stupendous canyons in Yosemite and nearby Cherry Creek. Bird-watching, trout-fishing, glacier-carved landscapes, virgin conifer forests, and superb swimming holes await us on our mainly cross-country ramble at medium elevations. Three layover days and several short moving days provide ample leisure time. Experienced backpackers only. (Rated M) *Leader: Mari Calhoun. Price: \$465; Dep: \$50. [93190]*

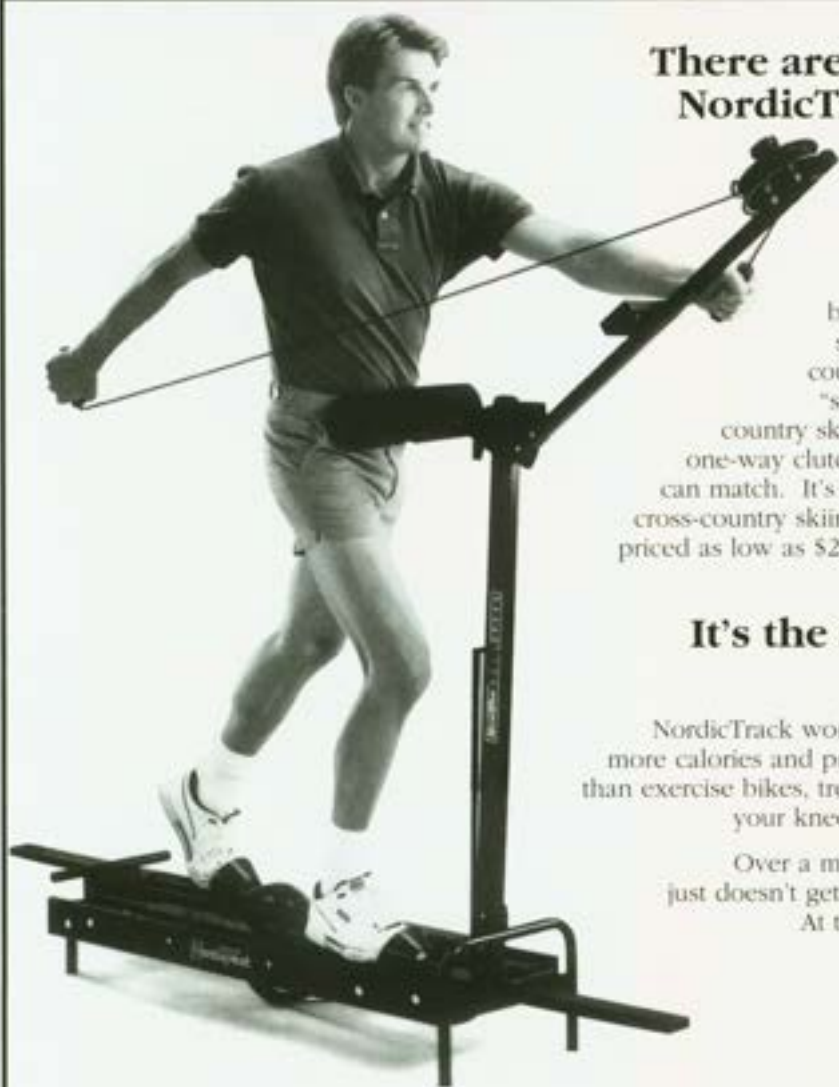
In Search of the Sky Pilot, Kings Canyon and Sequoia Parks, Sierra—August 13–20. High on the

Sierra crest near Mt. Whitney, we’ll explore a land of azure lakes and towering peaks. On cross-country excursions into isolated Center and Wrights Lakes basins we’ll discover the beautiful sky pilot blooming above 13,000 feet, and camp in the shadows of 14,000-foot peaks. An average six miles a day allows ample time for afternoon leisure. (Rated M) *Leader: Paul McKown. Price: \$315; Dep: \$50. [93191]*

Palisades Peaks and Lakes, Kings Canyon Park, Sierra—August 15–21. Southeast of Yosemite, the 14,000-foot Palisade Crest protects two high-country basins. Dusy and Palisades. We’ll explore this area’s glaciers, alpine lakes, arctic-like tundra, and sweeping granite plains on this seven-day, 37-mile traverse. A layover day allows time to relax or climb a 14,000-foot peak. We’ll exit via Taboose Pass into the desert below. (Rated M) *Leader: Roxann Hanning. Price: \$345; Dep: \$50. [93192]*

Big Bird Lake, Kings Canyon and Sequoia Parks, Sierra—August 15–22. Explore the peaks and plateaus of the divide between Kings Canyon and Sequoia parks—a wide-open granite region, perfect for cross-country

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wandering, that epitomizes the Sierra Nevada. Thrilling views of crest peaks accompany us as we roam over ridges and unnamed peaks from Sequoia's tablelands, by Big Bird Lake, and into canyons of the upper Kings River. (Rated M) Leader: Vicky Hoover. Price: \$285; Dep: \$50. [93193]

Mammoth Crest Promenade, John Muir Wilderness, Sierra—August 15–22. This 36-mile trek will give us grand views of the Ritter Range, Cascade Valley, and Silver Divide. A packer assist will lighten our load the first day. We'll have two layover days to explore high meadows, lonely lakes, and cirques; and enjoy creative camp cuisine. Well-prepared beginners and laid-back veterans who appreciate granite are welcome. (Rated L-M) Leader: Kate Froman. Price: \$360; Dep: \$50. [93194]

Yosemite and Sawtooth Ridge, Hoover Wilderness, Sierra—August 15–22. Join us in the north-eastern Yosemite high country and enjoy Twin Lakes, Mule Pass, Slide Canyon, Burro Pass, and the spectacular Matterhorn Canyon. We start at Twin Lakes Campground out of Bridgeport and finish at Virginia Lakes. Matterhorn Peak (12,264 feet) is an optional climb on our layover day. Average daily distance is seven miles. (Rated M) Leader: John Bird. Price: \$285; Dep: \$50. [93195]

Beartooth Sojourn, Absaroka-Beartooth Wilderness, Montana—August 20–28. Just northeast of Yellowstone we'll delight in a high granite plateau with peaks to bag and timbered valleys with lakes to fish. We'll travel mostly on trail through a fragile wilderness area, and have three layover days for exploration or relaxation. The roaring waterfalls of the East Rosebud River await us too. (Rated M-S) Leader: Roger Grissette. Price: \$470; Dep: \$50. [93196]

Trans-Sierra Juniors, John Muir Wilderness, Sierra—August 20–28. A perfect end to your summer vacation this year is this moderately paced, mostly cross-country Sierra traverse for well-prepared teenagers ages 13 to 16. We start at Lake Thomas Edison and finish at Rock Creek in the eastern Sierra. Two layover days for snoozing, swim-

ming, peak-climbing, or lolly-gagging complement several strenuous moving days. Older teens and adults also welcome. (Rated M-S) Leader: Patrick Colgan. Price: \$310; Dep: \$50. [93197]

Lake Chelan, Glacier Peak Wilderness, North Cascades Park, Washington—August 21–29. This loop trip begins on the spectacular North Cascades Highway, then follows the Pacific Crest Trail toward Glacier Peak's high passes. We will stay at the historic mining village of Holden, then ride the ferry up Lake Chelan to Stehekin, perhaps the most remote town in the U.S. Finally we hike up over McAlester Pass back to our cars. (Rated S) Leader: Craig Miller. Price: \$505; Dep: \$100. [93198]

Mt. Whitney by Moonlight, Kings Canyon and Sequoia Parks, Sierra—August 25–September 1. Entering the High Sierra from Onion Valley, we traverse 56 miles across plateaus and meadows on the John Muir Trail. The climax is climbing Mt. Whitney (14,494 feet) and camping there under the full moon. We'll have a naturalist interpret flora and geology, and a layover day for relaxation or exploration. Elevations above 10,000 feet require good physical condition. (Rated M-S) Leader: Meinda Goodwater. Price: \$325; Dep: \$50. [93199]

Scenic Meadow, Kings Canyon and Sequoia Parks, Sierra—August 26–September 4. Scenic Meadow—high on the divide between Ferguson Creek and Deadman Canyon—will be one attraction of our cross-country exploration along the high Tableland boundary of Kings Canyon and Sequoia parks. Early trappers, shepherds, and prospectors roamed the area, but today it is visited only by backpackers who desire solitude and enjoy cross-country travel. (Rated M-S) Leader: Gordon Peterson. Price: \$330; Dep: \$50. [93202]

Cirque Crest and the Muro Blanco, Kings Canyon Park, Sierra—August 27–September 4. Our hike follows the mostly cross-country Sierra high route along the Cirque Crest. We'll go to Marion Lake before descending Cartridge Pass and the trackless Muro Blanco via the path of the



PLEASE READ THE RESERVATION AND CANCELLATION POLICY ON PAGES 136 AND 137 BEFORE SENDING IN YOUR APPLICATION.

Autumn colors in New Hampshire; left, hiker picking huckleberries, Timberline Trail, Mt. Hood Wilderness, Oregon; right, Yosemite sunset.



King's South Fork. Two layover days allow us to relax, climb, and fish at seldom-visited lakes. A food drop lightens the first day's load. (Rated M-S) Leader: *Louis Argres*. Price: \$340; Dep: \$50. [93203]

Kern Hot Springs, Sequoia Park, Sierra—August 28–September 6. A comprehensive tour of western Sequoia Park backcountry includes visits to alpine lake basins and meadows, deep canyons and rivers, the Great Western Divide, the Kaweah Peaks, and the refreshing Kern Hot Springs deep in remote and spectacular Kern Canyon. Expect unsurpassed scenery, comfortable campsites, excellent photography and fishing, and two layover days for your own activities. (Rated M) Leader: *Donald H. Lackowski*. Price: \$340; Dep: \$50. [93204]

LeConte Divide, John Muir Wilderness, Sierra—August 28–September 6. The imposing 12,000-foot peaks of the LeConte Divide separate the Muir Wilderness from Kings Canyon Park to the east. We will enjoy impressive vistas as our 55-mile route (including 12 adventurous cross-country miles) traverses high ridges, alpine valleys, and lake-strewn basins in the western shadow of the Divide. Layover days will allow time for fishing, exploring, peak-bagging, or meditating. (Rated M) Leader: *Bill Flower*. Price: \$405; Dep: \$50. [93205]

Ritter Range Leisure, Ansel Adams Wilderness, Sierra—August 29–September 5. Below Banner Peak and the Minarets lies a multitude of lakes, large and small. We will travel short distances between them with most afternoons and several layover days free for photography, fishing, or relaxation. With less than 30 miles total, and only four to six and a-half miles on

moving days, this will be a nature lover's delight. (Rated L) Leader: *Hal Fisher*. Price: \$290; Dep: \$50. [93206]

Pacific Crest Trail from Manning Park, British Columbia to Rainy Pass, Washington—September 2–11. Come explore with us a rugged and remote portion of the Pacific Crest Trail, a 1,500-mile trail running from Canada to Mexico. At its northernmost end, this famous trail offers high alpine wandering amid glacier-covered peaks and crystalline lakes. Huckleberries and wildlife should be plentiful. (Rated S) Leader: *Alix Foster*. Price: \$570; Dep: \$100. [93207]

Tehipte Valley, Kings Canyon Park, Sierra—September 2–11. Tehipte rivals the beauty of Yosemite, yet its inaccessibility to cars makes it one of the wildest and least-visited canyons in the Sierra. After passing through Blue Canyon and crossing the White Divide, we'll drop to the Middle Fork of the Kings River, using an off-trail route along Goddard Creek. Best suited for avid backpackers. (Rated M-S) Leader: *Joe Uzarski*. Price: \$545; Dep: \$100. [93208]

Pacific Crest Trail, Stevens Pass to Snoqualmie Pass, Washington—September 4–12. This classic traverse begins at Stevens Pass, a place intimately connected with railroad history. We hike through the Alpine Lakes Wilderness, identify wildflowers,

see old-growth forests, and possibly hear the hooting of a spotted owl. We make our way to Snoqualmie Pass along ridges with spectacular views and the Kendall Katwalk, a portion of the trail blasted out of a granite cliff. (Rated S) Leader: *Craig Miller*. Price: \$365; Dep: \$50. [93209]

Red, White, and Blew Ramble, John Muir Wilderness, Sierra—September 5–14. Experienced backpackers who enjoy lakes and granite will love rambling over four windy, 12,000-foot passes in the shadow of towering 12,850-foot Red and White Mountain in the Mono Recesses. Eighteen miles off-trail and three layover days will provide ample fishing and photo opportunities on this 30-miler. A food drop lightens our first day. (Rated L-M) Leader: *Barry Bolden*. Price: \$410; Dep: \$50. [93210]

Sunset Meadow Sampler, Jennie Lakes Wilderness and Kings Canyon Park, Sierra—September 7–10. Our 28-mile, on-trail adventure begins at Sunset Meadow deep in the heart of the Jennie Lakes Wilderness, and takes us past Twin Peaks, the massive granite boulders that grace Silliman Pass (10,165 feet). Anglers will enjoy Ranger and Seville lakes, while others can explore alpine meadows and enjoy grand vistas. Well-conditioned novices and experienced backpackers are welcome. (Rated M) Leader: *Susan Lassiter*. Price: \$170; Dep: \$50. [93211]

CONSERVATION CHALLENGE

North Cascades Need Your Help

On the dry eastern side of the Cascade Range just south of the Canadian border is an untouched wilderness of craggy peaks; roaring, salmon-filled rivers; pristine air; and breathtaking vistas of untouched forests. While the highest alpine terrain is protected in a national park and wilderness areas, most of the virgin forests are not protected from logging. The U.S. Forest Service is now preparing gigantic timber sales across 100,000 acres of roadless land to supply a few weeks of timber for the region's sawmills. Over 100 miles of logging roads will penetrate some of the best remaining grizzly bear, wolf, and lynx habitats. The sales also target the last intact old-growth ponderosa pine ecosystems in the region. What you can do: The three largest proposals are the Granite Mountain, Ridge, and Jackson Creek timber sales. Write the Forest Service and ask that they cancel plans for these huge timber sales and instead protect the roadless areas of the Okanogan. Write to Sam Gehr, Forest Supervisor, Okanogan National Forest, 1240 South Second, Okanogan, WA 98840. Also consider taking your family on trip #93274 to the Okanogan Forest, or on one of our other trips in the North Cascades.



Autumn colors in Falling Water, Pennsylvania; insets left to right: zebra longwing; saguaro at sunset; "homemade" pie on outing in Mt. Hood Wilderness, Oregon.

Fall Color, Lake Superior Pictured Rocks, Michigan—September 12–18. This outing to one of the Midwest's premier outdoor settings features fall colors, the Pictured Rocks cliffs, soft and hardwood forests, Twelvemile Beach, and an abandoned lighthouse. Mild temperatures, the absence of insects, and daily mileages of five to six miles over relatively flat terrain add to the water wonderland appeal of Michigan's Upper Peninsula at this time of year. (Rated L-M) Leader: Jack Thompson. Price: \$385; Dep: \$50. [93212]

Fall Natural History, Continental Divide, Weminuche Wilderness, Colorado—September 12–18. Learn about the Rocky Mountains' plants, animals, and geology as our trail soars over 12,000 feet, dips into brilliant fall aspen groves, and pauses at dozens of alpine lakes. We'll look for elk

and other wildlife on our layover day. The route is only 35 miles long, but good physical condition is necessary for hiking at these elevations. (Rated L-M) Leader: Suzanne Swedo. Price: \$385; Dep: \$50. [93213]

Presidential Range, White Mountain Forest, New Hampshire—September 12–18. The White Mountains are home to the highest alpine peaks east of the Mississippi. Rock formations, open vistas, alpine flora, and bountiful wildlife comprise this national treasure. We will hike an average of eight miles a day, but elevation changes of 4,000 feet make the trip strenuous. Two layover days provide opportunity to climb peaks. (Rated S) Leader: Jeffrey Knopp. Price: \$435; Dep: \$50. [93214]

High Lakes, John Muir Wilderness, Sierra—September 13–24. This 12-day trip visits high

open country near the Sierra crest and Mono Divide. We go in through densely forested valleys to reach glaciated alpine terrain with chains of lakes. Enjoy our four layover days near Sandpiper, Vee, and Italy lakes by strolling, fishing, loafing, or climbing peaks. A packer drop eases our loads. (Rated L-M) Leader: Mac Downing. Price: \$550; Dep: \$100. [93215]

Rio Grande Pyramid, Weminuche Wilderness, Colorado—September 18–26. The Rio Grande Pyramid (13,821 feet) is our goal on this outing. Using Los Pinos River as our lifeline, we will seek out the high country along the Continental Divide. The Window, Granite Lake, Divide Lakes, and Popes Nose will also be within reach. If for nothing else, come to see the kaleidoscope of fall color. (Rated M-S) Leader: Brian K. Johnson. Price: \$390; Dep: \$50. [93216]

West Virginia Wilderness Walk, Monongahela Forest—September 19–25. Celebrate the passing of summer as we hike 30 miles through two wilderness areas—Otter Creek and the famous Dolly Sods. We'll have two layover days and plenty of time to enjoy the vistas, waterfalls, and swimming opportunities along and above Red and Otter creeks. Hikes range up to 10 miles a day; there will be modest elevation changes. (Rated L-M) Leader: Kenneth S. Limmer. Price: \$395; Dep: \$50. [93217]

Kanab Canyon and Thunder River, Grand Canyon Park, Arizona—September 25–October 2. See description for trip #93049 above. (Rated S) Leader: Gene Glenn. Price: \$355; Dep: \$50. [93218]

Summer's End in the Adirondacks, Adirondack Park, New York—September 26–October 2.



Adirondack State Park is beautiful in any season, but autumn colors provide the most magnificent backdrop for our seven-day adventure. Our 50-mile backpack will cover the highlights of the High Peaks region—imposing Mt. Marcy (5,344 feet), inspiring Avalanche Pass, and irresistible Lake Colden. (Rated M-S) **Leader:** Jim Lynch. **Price:** \$455; **Dep:** \$50. [93219]

In Search of the Anasazi, Southeast Utah—October 3–9. With our expert archaeologist guide, we'll explore southeastern Utah's Road and Fish canyons in search of ancient cities. Hike in shrub pine and juniper, visit Neville's Arch, and camp in stands of cottonwood at 5,500 feet. Water determines distance, but an average of five to six miles a day leaves time for exploring. Canyon terrain raises the rating. (Rated M) **Leader:** Neil Stufflebeam. **Price:** \$380; **Dep:** \$50. [93220]

Kwagunt and Malgosa Canyons, Grand Canyon Park, Arizona—October 3–9. Is there a lost Anasazi city in Kwagunt? Is there a route to the Colorado River in Malgosa? Is the Horsethief Trail really a trail? Can a backpacker go up the entire Nankoweap Trail in one day? Come join us as we search for truth in Paradise. Not for the inexperienced. (Rated S) **Leader:** Sid Hirsh. **Price:** \$375; **Dep:** \$50. [93221]

Rainbow Bridge and Navajo Mountain, Arizona and Utah—October 9–16. On this rugged, high-desert backpack, we'll circle 10,388-foot Navajo Mountain, one of five mountains sacred to the Navajo people. We'll skirt the flanks of the mountain on unmaintained trails through isolated, wild terrain to Rainbow Bridge. Camp at 6,000 feet and enjoy warm days and cool nights. Explore side canyons on our two layover days. For experienced

backpackers only. (Rated S) **Leader:** Judith Harper. **Price:** \$390; **Dep:** \$50. [93222]

Canyons of the Maze, Canyonlands Park, Utah—October 9–17. The legendary canyons of the Maze offer endless rewards. Visit Horse, Shot, and Jasper canyons, Pete's Mesa, and other places. Our difficult entry is more than offset by the area's intricate, colorful geology, and extensive evidence of ancient habitation. Several two-night campsites are planned, allowing time for wide-ranging exploration without heavy packs. (Rated S) **Leader:** Mike Eaton. **Price:** \$475; **Dep:** \$50. [93223]

Bears and Wildcats, Zion Park, Utah—October 10–16. Fall colors will be at their best on this canyons-and-slickrock hike from Zion's Kolob region to the spectacular descent down the West Rim Trail. We'll visit Kolob Arch,

Beartrap Canyon, and Hop Valley; hike the Wildcat Canyon Trail, and enjoy dramatic views of Zion and Great West canyons. No bears, but we may see mountain lion tracks. (Rated M-S) **Leader:** Bob Cole. **Price:** \$375; **Dep:** \$50. [93224]

Canyons, Caves, and Cabins, Buffalo River, Arkansas—October 10–16. Geology, botany, history, and scenery come in generous portions along our 44-mile hike amid autumn colors. We'll travel upriver from the hills and hollows of the Springfield Plateau into the Ozarks' deepest canyon where the Buffalo emerges from the Boston Mountains. Expect fine river views, pioneer relics, and other surprises. (Rated M) **Leaders:** Joan and John Molenaar. **Price:** \$415; **Dep:** \$50. [93225]

Note: See Alaska, Family, Hawaii, International, and Service for other backpack outings.



GARY UNDERWOOD

LEWIS & CLARK

Monkeyflowers; above, Canyonlands National Park, Utah; left, Bryce Canyon with snow; far right, camp cooking in John Muir Wilderness, Sierra.

Base Camp

Base camp trips offer access to the backcountry, plenty of free time, and excellent food—all without the exertion of backpacking. * On some trips, pack animals carry most gear, food, and equipment to camp, then return to civilization for a week while you enjoy the peace and serenity of the wilderness. On other trips lodges, cabins, or other accommodations serve as headquarters from which daily explorations can be made. As a base camp participant, you will hike with only a daypack. * You assist with meal preparation but are otherwise free to dayhike or, on some trips, join the leader on a short overnight backpack. * Base camp trips are ideal for families and for people who want time to explore the wilderness at a leisurely pace.

America's Tropical Paradise, Virgin Islands Park, U.S. Virgin Islands—February 28–March 6. Virgin Islands National Park occupies most of the island of St. John, where we'll stay in rustic, beachfront cottages. On morning hikes we'll explore the island's forest and remote places. In the afternoons we'll drive to beautiful white sand beaches to swim or snorkel among tropical fish, sea turtles, and coral reefs. Meals are not included in the trip price. Leader: Gary Skomro. Price: \$720; Dep: \$100. [93062]

California's Coast: City Sights and Country Nights for Artists and Amblers—April 4–9. Our spring fling is based at the Golden Gate Hostel, with its San Francisco skyline views and scenic Muir Woods and Marin Headlands trails close at hand. The nearby artists' colony of Sausalito offers waterfront subject matter. We will share the preparation of low-fat feasts after days spent painting and hiking. Leader: Barbara Poole. Price: \$355; Dep: \$50. [93228]

Oak Creek Canyon and Sedona, Arizona—April 18–24. Designed for those with limited physical ability who desire leisurely dayhikes from a base setting. We will hike along beautiful canyon floors and stroll along creek banks, admiring desert wildflowers, towering redrock formations, and an Indian cliff dwelling. We will also visit two national monuments that feature the remains

of ancient Indian villages. Lodgings will be in shared condominiums. Leader: Joel Landis. Price: \$495; Dep: \$50. [93063]

Havasupai Indian Reservation, Grand Canyon, Arizona—April 19–25. Visit this remote, beautiful reservation on the western end of the Grand Canyon. Horses will carry our duffel bags, food, and commissary equipment to a base camp located between two grand waterfalls—Havasu and Mooney. We'll spend our days swimming in the pools below the falls, or hiking. Our last night will be at the Indian Lodge in Supai Village. Leader: John Malarkey. Price: \$680; Dep: \$100. [93064]

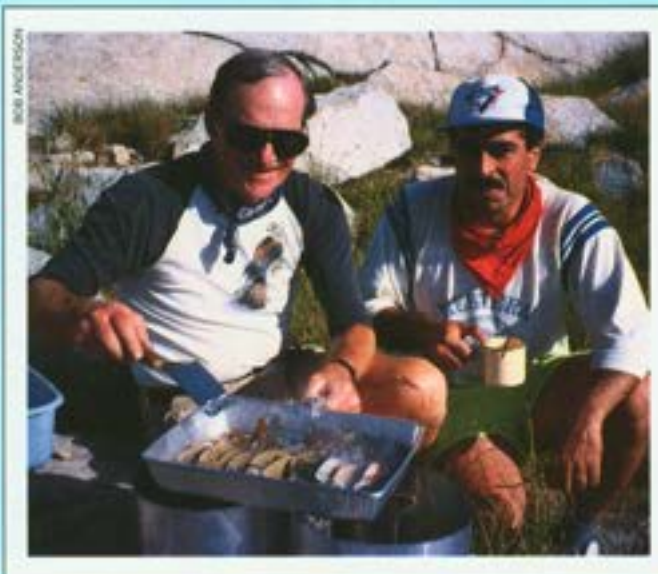
Naturalist's Puerto Rico—April 19–25. Explore the unspoiled island of Culebra, snorkeling and swimming its pristine beaches and assisting with Fish and Wildlife Service surveys of nesting sea turtles. Hike the trails of El Yunque, the Forest Service's only tropical rainforest. Accommodations include a villa in Culebra and a historic hotel near El Yunque. Please note that meals are not included in the trip price. Leader: Marjorie Richman. Price: \$880; Dep: \$100. [93065]

Dolly Sods Wilderness, West Virginia—May 16–22. Don't miss spring in Dolly Sods. Part of the Monongahela National Forest,

Dolly Sods offers a mind-boggling variety of wildflowers and burgeoning vegetation every spring. We'll sample 42 miles of hiking trails, and undertake several daylong trips—one to Seneca Rock and another along Canaan Valley/Blackwater State Park trail. Leader: Gina Flannery. Price: \$450; Dep: \$50. [93066]

Hiking Virginia's Shenandoah Valley—May 16–22. Come and enjoy the Shenandoah region of the Appalachian Mountains. Daily hikes, planned for varying levels of difficulty, will include the Appalachian Trail and many of the 4,000-foot summits in Shenandoah National Park. We will see fantastic views of the Blue Ridge, cascading waterfalls, historic sites, and spring wildflowers, and may encounter deer and black bears. Leader: Mark Lidd. Price: \$330; Dep: \$50. [93067]

Bison, Coyotes, and Eagles, Badlands Park, South Dakota—May 23–28. Serenaded by coyotes, the moon light will illuminate colorful spires, pinnacles, and sawtoothed ridges in the "mako sica" (badlands). This is an ideal setting to learn about the history and culture of the Sioux people. Skeletons and fossils of ancient camels, three-toed horses, and saber-toothed tigers are common. Daily hikes provide observation of natural phenomena, prairie dog towns, and grasslands. Leader: John Mahoney. Price: \$395; Dep: \$50. [93229]



Virginia's Rooftop, Mt. Rogers Recreation Area—May 23–29. Where Virginia meets North Carolina and Tennessee, the Blue Ridge Mountains reach their highest crests at over 5,500 feet. Staying at Beartree Campground and using car shuttles, we will hike the Appalachian Trail and other wilderness trails. Highlights of the week include wildflowers, azaleas, wild ponies, panoramic vistas from mountain balds, and hikes over Whitetop Mountain and Mt. Rogers. *Leader: Bill DeLoache. Price: \$340; Dep: \$50. [93068]*

Bryce Canyon Park, Utah—June 5–12. Explore the dramatic pink cliffs and forested valleys of Bryce Canyon. From our drive-in base camp we will carpool to trailheads for six- to eight-mile dayhikes. There will be one overnight backpack as well. Backpacking experience and gear required. *Leader: Duane Ottens. Price: \$505; Dep: \$100. [93231]*

Leadership Training, Mt. Rogers Recreation Area, Virginia—June 6–12. The scenic wooded hills and valleys of southwest Virginia will be the backdrop for an outing designed to train new leaders for the National Outing Program. Instruction will combine with on-trail practice and simulated emergencies. The trip fee may be reimbursed. See trip brochure for qualification criteria. *Leaders: Helene Baumann and Marjorie Richman. Price: \$345; Dep: \$50. [93232]*

Wildflower Promenade: Great Smoky Mountains Park, Tennessee and North Carolina—June 6–12. This park is distinguished by its richness of flora, boasting approximately 1,500 species of native flowering herbs, shrubs, and trees. Expect to see an array of wildflowers as we explore the area on dayhikes of varying difficulty. Our camps at Cades Cove and Cosby, Tennessee, will allow us access to a variety of trails. Beginners welcome! *Leader: Carolyn Williams. Price: \$380; Dep: \$50. [93233]*

Great Basin Park, Nevada—July 11–17. A national park since 1986, Great Basin offers dayhiking, backpacking, peak-bagging, spelunking, or just relaxing at our 10,000-foot base camp. The optional two-day wilderness backpack combines a trek up se-

cluded Hendrys Creek with an ascent of Mt. Moriah, promising ancient bristlecone pines and possibly bighorn sheep en route. Nightly campfire entertainment and easy ranger-conducted walks available; modified vegetarian diets accommodated. *Leader: Carol Tresner. Price: \$355; Dep: \$50. [93236]*

Rambling through the High Peaks, Adirondack Park, New York—July 17–24. Enjoy exhilarating backcountry dayhiking in the Northeast's premier forest preserve while based at two lodges providing comfortable bunkrooms and delicious, family-style meals. Climb peaks over 4,000 feet (including Mt. Marcy, New York's highest), and take in panoramic views galore. Ideal for the enthusiastic, experienced, and fit mountain hiker eager to avoid tenting and a heavy backpack. *Leader: Dick Terwilliger. Price: \$960; Dep: \$100. [93237]*

Summer in Canada's Coast Mountains, Tweedsmuir Park, British Columbia—August 2–8. British Columbia's biggest and wildest park, Tweedsmuir is also the setting for the bicentennial celebration of Alexander Mackenzie's unprecedented crossing of North America in 1793. Based at historic Tweedsmuir Lodge, we will explore old-growth forest, alpine meadows, Pacific estuary, and Mackenzie's route, returning for fine meals and conversation before the fireplace each evening. A perennial favorite. *Leader: Dennis Kuch. Price: \$1,360; Dep: \$200. [93240]*

Hidden Valley Retreat, Sierra Forest, Sierra—August 21–28. Come to the 100-year-old Muir Trail Ranch (7,665 feet) just north of Kings Canyon, where the Evolution Valley beckons in our backyard. Contemplate the rushing San Joaquin River by day, and soak in your choice of two hot springs by night. We sleep in log or tent cabins, and breakfast at the rustic dining hall. *Leader: Bill Davies. Price: \$1,140; Dep: \$200. [93243]*

Stehakin Valley, North Cascades, Washington—September 19–25. Take an autumn break this year and admire the fall foliage of the enchanted valley. Our rustic cabins, reached by a 50-mile boat ride on Lake Chelan, are nestled in a glacial valley ringed

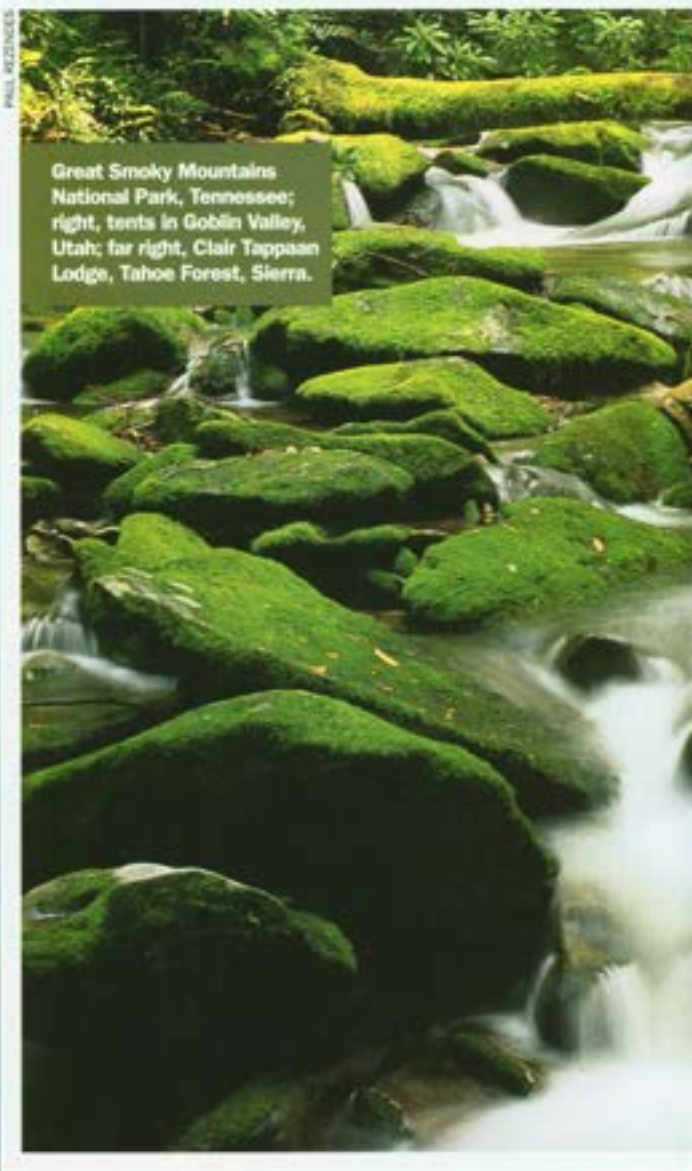
by the lofty North Cascades. This "soft" adventure emphasizes photography, natural history, relaxation, and renewal via hiking, trout-fishing, and optional horseback riding. Non-hikers are welcome. *Leader: Carolyn Castleman. Price: \$850; Dep: \$100. [93245]*

Slickrock Autumn, Zion Park, Utah—October 10–16. Sculptured sandstone canyons, brilliant yellow cottonwoods, and flaming red western maples are a feast for the spirit as autumn comes to Zion. Join us for a week of mostly off-trail dayhiking in the scenic wilderness backcountry. Evening social hour, fine dining, and a campfire will top off each day's exhilarating experience. *Leader: Don McIver. Price: \$470; Dep: \$50. [93246]*

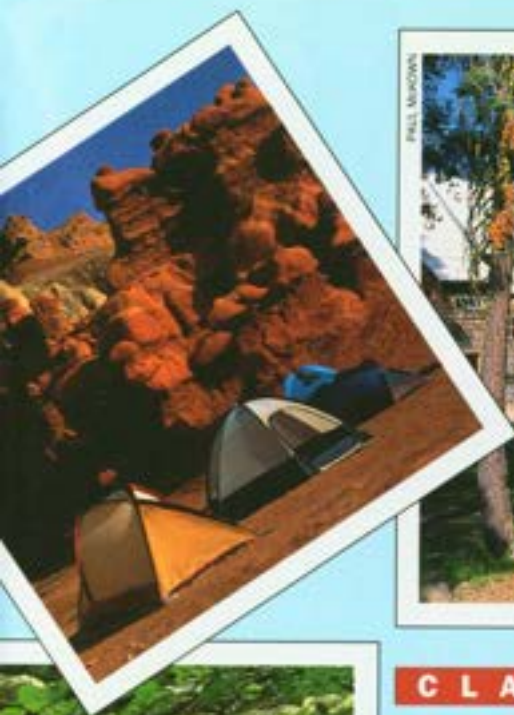
Great Smoky Mountains Park, Tennessee and North Carolina—October 10–17. Enjoy autumn in Great Smoky Mountains National Park, where the forests will be ablaze with fall color. We will explore the history, flora, and fauna of this southern mountain range on dayhikes of varying difficulty. Highlights will include Mt. LeConte, Ramsey Cascades, Gregory Bald, Abrams Falls, Mt. Sterling, and the Appalachian Trail. Our camps will be at Cades Cove, Tennessee, and Cataloochee, North Carolina. *Leader: Bob Goldberg. Price: \$400; Dep: \$50. [93247]*

Note: See Alaska, Family, Highlight, International, Service, and Water for other base camp outings.

PAUL REZINCES



Great Smoky Mountains National Park, Tennessee; right, tents in Goblin Valley, Utah; far right, Clair Tappaan Lodge, Tahoe Forest, Sierra.



CLAIR TAPPAAN LODGE TRIPS

The Sierra Club's own mountain lodge is situated on a forested hillside two miles west of historic Donner Pass at 7,000-foot elevation. It is within minutes of swimmable lakes, easily climbed peaks, and an elegant, gentle trail system. The lodge is rustic but comfortable; it boasts healthy meals, indoor plumbing, and even a hot tub. It's an ideal base for expanding your knowledge or exploring trails. Choose from our wide array of special-interest programs. Best of all, there are no compulsory activities on any of these outings. After all, it's your vacation.

Donner Pass Spring into Nature—June 13–19. Spring is wonderful in the Sierra, and with our own master naturalist, Tim Messick, in tow, you will gain a greater understanding of the natural world. We'll study the flora, fauna, and geology of the area and even visit some fascinating historic spots. Fun-filled evening activities are also planned. Join us on this special nature study program. *Leader: Sy Geiman. Price: \$390; Dep: \$50. [93234]*

High Sierra Serenity, Six Hikes and Twelve Steps—June 20–26. Hike, fish, explore, and appreciate the natural and historical richness of the Donner Pass area. Our rustic hideaway is perfect for fellowship and serenity. Provisions for optional 12-step program meetings will be a special addition to this unique outing. *Leaders: Barbara and Tim Poole. Price: \$350; Dep: \$50. [93235]*

Light and Landscape Photography Workshop—July 18–24. Nature will be our laboratory as we meander along easy trails and enjoy meadows, lakes, and forests. With the guidance of an experienced photographer, we'll capture the landscape of this

beautiful area on film. Designed for photographers wishing to improve their skills, instruction will emphasize techniques to enhance creativity. Critiques and discussions are planned for the evenings. *Leader: Harriet Hyams. Price: \$390; Dep: \$50. [93238]*

Mountain Music and Meandering—July 25–31. The hills are alive with the sound of music—English ballads, Swiss yodels, country western, gospel, and rounds, with harmonicas, guitars, and recorders—as music-lovers gather to share their favorites. With peaks and dales, meadows, lakes, and streams for inspiration, and the lodge's hot meals, hot tub, and bunk beds at the end of the day, music and spirits will soar. *Leaders: Emily and Gus Benner. Price: \$370; Dep: \$50. [93239]*

History and Hiking—August 8–14. If you like your history in short, interesting doses, come learn how the emigrants conquered the imposing Sierra Nevada at Donner Pass. Dayhike to historic and scenic sites, fish, or loaf while staying at charming Clair Tappaan and enjoying tasty prepared meals. This trip is suit-

able for anyone in good health who's able to hike up fairly steep trails. *Leader: Ernie Jackson. Price: \$345; Dep: \$50. [93241]*

Art, Hiking, and the Good Life—August 15–21. Picture this: daily hikes on historic trails near Donner Pass, time to capture the natural landscape on paper or canvas, an art instructor to help you, and the friendly ambience of a rustic yet comfortable mountain lodge. Join us for our fourth successive year. You can count on this not being a paint-by-the-numbers outing. *Leaders: Helen and Jim Maas. Price: \$390; Dep: \$50. [93242]*

Nature Writing Workshop—September 12–18. Whether you're a nature writer, general nonfiction writer, or aspiring writer, you'll enjoy this opportunity to improve your writing skills with noted nature author David Rains Wallace. We will supplement our workshop sessions with easy mountain hikes near Donner and Emigrant passes and on the Pacific Crest Trail. *Leader: Susan Heitman. Price: \$440; Dep: \$50. [93244]*

Note: See Family and Ski for other Lodge outings.



Cyclists in Moab, Utah; above left, bike trip group resting, Eel River, California; above right, wildflowers in Colorado; far right Moab, Utah.

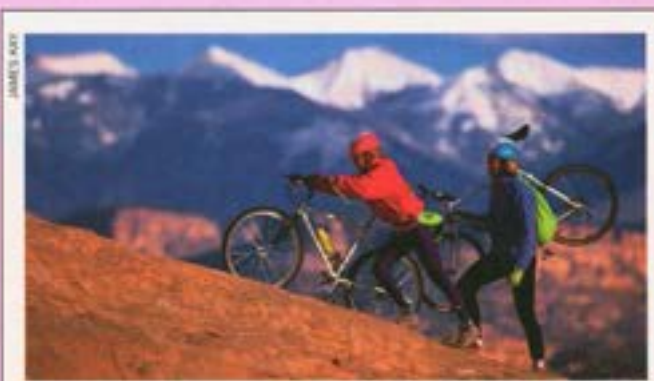
Bicycle

On a bicycle trip, you can enjoy great scenic beauty and cover a lot of ground without getting into a car. The Sierra Club offers trips throughout the year in many different North American locations. There is always time for swimming, hiking, sightseeing, or relaxing after a day of vigorous riding. * Most trips are sag wagon-supported so participants carry only day gear with them, but on others you will need to ride with all your gear. Participants share in camp chores and sag wagon driving. Accommodations range from campgrounds to lodges. * Consult the trip descriptions and brochures carefully before choosing a trip. Terrain and distance variations require different levels of skill and physical conditioning.

Southern Utah Backroad Tour—May 30–June 5. This moderately strenuous tour through the temples of Zion, the redrock canyons of Bryce, and the slot washes of the Paria Wilderness is for the adventurous cyclist. We are supported by a sag wagon on primitive roads and jeep trails. A lay-over day mid-tour is planned to allow us to explore Buckskin Gulch, the ultimate "slot" of the Colorado Plateau. Leader: Bob Hartman. Price: \$450; Dep: \$50. [93070]

Touring the Finger Lakes, New York—June 27–July 4. Ride with us through the western Finger Lakes region of central New York, and sample its gorges, glens, waterfalls, and wineries. Daily rides average 45 miles through rolling hills and valleys, ending each night at scenic campgrounds. You must be in good physical condition and have reliable equipment. Leader: Michele Paradiso. Price: \$495; Dep: \$50. [93250]

Canadian Rockies, Jasper and Banff Parks, Alberta—July 11–17. The Icefields Parkway is one of the finest bicycling roads in the world. We cycle from Banff to Jasper past the Columbia Icefield, over two major passes, and against a stunning backdrop of glaciated peaks. We'll take turns driving the sag wagon that carries our gear between campgrounds. Experienced cyclists only. Leader: Peter Bengtson. Price: \$645; Dep: \$100. [93251]



Mountain Biking in New York's Adirondacks—August 1–6. Enjoy a sag wagon-supported exploration of the central Adirondacks. The 6-million acre Adirondack Mountain Park has a nearly unlimited network of logging roads, jeep trails, and snowmobile trails. We average 15 to 25 miles a day, with nights at a remote log cabin, a bed-and-breakfast, and brookside campsites. There is time for hikes, swimming, and photography. All levels welcome. Leader: John Borel. Price: \$630; Dep: \$100. [93252]

Mt. Desert Island and Acadia Park Adventure, Maine—August 8–14. Daily rides from our base campground take us to picturesque villages and snug harbors, carriage roads in spruce forests, granite mountains with panoramic views, clear, cold lakes, tidepools on pebble beaches, and lighthouses. Riding 20 to 35 miles a day allows time for individuals

and families to relax and appreciate the island world. Leaders: Beth Barrow-Titus and Phil Titus. Price: \$475; Dep: \$50. [93253]

The Grand Tour of Down East, Maine—August 16–22. Sample Maine's rocky coast and picturesque countryside on this circular route. We'll explore the peninsulas from Acadia National Park to Eastport, including Great Wass Island, Quoddy Head Lighthouse, and Campobello. We return via rural roads through quaint inland villages. Our menu will include a generous sample of the local catch. A sag wagon will transport our gear to each night's campsite. Leader: Frank J. Trafficante. Price: \$440; Dep: \$50. [93254]

Touring Vermont—August 29–September 4. Starting at Lake Champlain, we'll spend six leisurely days bicycling the back roads of central and southern Vermont. We'll travel through quiet

villages and countryside dotted with farms and woodlands. Moderate daily mileages allow for swimming, shopping, or relaxing. A sag wagon transports gear and we'll stay each night in campgrounds. Leader: Margaret O'Neil. Price: \$365; Dep: \$50. [93255]

San Juan Islands, Washington—September 5–11. The San Juan Islands between Seattle and Vancouver seem made for bicyclists. We'll explore countryside, parks, and small towns, enjoying dramatic coastal scenery as well as art galleries and bakeries. A sag wagon will carry gear, we'll stay in campgrounds and travel by ferry from island to island. Participants must be capable of cycling 30 to 40 miles a day on hilly terrain. Leader: Lyne Brown. Price: \$530; Dep: \$100. [93256]

Echo Park by Mountain Bike, Dinosaur Monument, Colorado—September 8–12. Mountain-bike Dinosaur National Monument on the historic Bench Road above the Yampa River and below the dry desert mesa. A layover in Echo Park, at the confluence of the Green and Yampa rivers, offers great hiking. A sag wagon will carry food and water between our primitive campsites. Expect hot days and cool nights; mountain bikes required and experience necessary. Leaders: Joanie and Mike Hoffmann. Price: \$305; Dep: \$50. [93257]

Note: See Alaska and International for other bicycle outings.

Burro

Take part in one of the great traditions of High Sierra travel. On burro trips participants enjoy the wilderness, accompanied and assisted by these strong, friendly, and gentle animals.

- * Burros are led by participants and carry most of the load. Everyone takes part in the trip activities, including burro care and wrangling, as well as cooking and cleanup.
- * Trips are suitable for the novice camper or seasoned outdoorsperson of any age. Children love burros, and are welcome on most trips if they are over the age of seven.
- * Most routes are at high elevations (8,000 to 12,000 feet), and cover distances between five and ten miles a day. All trips should be considered moderately strenuous, and participants must be in good physical condition.

Vogelsang Pass Loop, Yosemite Park, Sierra—July 11–18. Our 30-mile trip starts at Tuolumne Meadows Campground (8,800 feet) in the Yosemite high country and takes us over 10,700-foot Vogelsang Pass, past alpine meadows, granite lake basins, and deep glacial valleys before reaching Lake Tenaya. We will have three layover days for dayhikes, fishing, loafing, and the opportunity to climb a peak or two. *Leader: Don White. Price: \$550; Dep: \$100. [93260]*

The Cathedral Range of Yosemite Park, Sierra—July 18–25. This moderate trip takes a route of vistas and peaks into the Cathedral Range, following the Merced River and Lewis Creek. We will see the glacial landscape that made Yosemite famous—subalpine forest, alpine ridges, and paternoster lakes. Burros carry the loads as we move from camp to camp; on layover days we are free to explore. *Leader: Rich Hamstra. Price: \$550; Dep: \$100. [93261]*

Art in the Park, Yosemite Park and Inyo Forest, Sierra—July 25–August 1. Led by two landscape artists, this moderate trip emphasizes sketching, painting, and photography. Burros help carry gear as we head north from Tuolumne Meadows through Glen Aulin, up to McCabe Lakes, and into the beautifully glaciated Virginia and Spiller canyons, eventually reaching the alpine region of Summit Lake. Non-artists are

welcome to come and enjoy the fishing, hiking, and scenery. *Leader: Marshall Hasbrouck. Price: \$550; Dep: \$100. [93262]*

Heart of the Yosemite Wilderness Family Trip, Sierra—August 1–15. You and your family

are invited to an adventure across the heart of northern Yosemite. Take extra time exploring the remotest parts of the park on this moderate, two-week trip. Starting from Virginia Lakes in the Hoover Wilderness, we enter Yosemite the first day and work our way north via Smedberg and Benson

lakes, savoring the backcountry wildlife and scenery. Good fitness is essential. *Leader: Anne Parker. Price: adult \$825, child \$550; Dep: \$100. [93263]*

I Don't Think We're in Kansas Anymore Family Trip, Toiyabe Forest and Yosemite Park, Sierra—August 15–22. Toto won't be with us, but our burro companions will help us on our adventure to Dorothy Lake Pass and beyond. We'll follow parts of the Emigrant Trail as moderate moving days take us to Dorothy Lake, Grizzly Peak, and Cinko Lake. Don't forget your ruby slippers for lounging on layover days or for exploring peaks, streams, and scenic canyons! *Leader: Anneke Vonk. Price: adult \$555, Dep: \$100; child \$370; Dep: \$50. [93264]*

Tower Peak and the Sierra Crest, Toiyabe Forest and Yosemite Park, Sierra—August 22–29. Beginning at Leavitt Meadows, we head south to the boundary of Yosemite. From our camp in Tower Canyon, we can explore the peaks and lakes of the Sierra Crest. These include Mary Lake, Tower Peak, the Saurian Crest, and Tilden Lake. This is a moderate trip with no high passes, but there will be challenging dayhike opportunities. *Leader: Ted Bradfield. Price: \$550; Dep: \$100. [93265]*



Man standing with burro, Sierra, California.

Family

FAMILY
TRIP DEPOSITS
ARE PER
PARTICIPANT,
NOT PER
FAMILY.

Go on a Sierra Club family trip, and let us introduce your family to the joys of the outdoors. We create a cooperative atmosphere that allows children to experience the fun of outdoor living with others their age. The surrounding wilderness offers many enjoyable opportunities—nature study, hiking, swimming, fishing. * Everyone shares camp chores, outdoor skills, and knowledge about the area's plants, animals, and ecology. Guidance is provided in camping techniques that ensure safety and lessen wilderness impact. * We welcome single parents, grandparents, or aunts and uncles, in addition to two-parent families. * On some trips we drive to our campsite and take daily hikes; on others pack animals transport food, dunnage, and equipment from roadhead to camp. Sometimes we stay in lodges or cabins. * Before you choose a trip, read the trip description and brochure carefully. Difficulty levels and age restrictions vary. General good health is necessary, and some physical conditioning is advisable. * Please note that child prices apply to participants age 16 and under.

Arches Adventure for Preschoolers, Arches and Canyonlands Parks, Utah—May 16–22.

Short, easy hikes make this park ideal for families with budding hikers and parents with child-carry packs. Dayhikes allow us to explore The Windows, Fery Furnace, Devil's and Delicate Arch in Arches Park, plus the Needles District of Canyonlands Park. Other highlights include evening ranger presentations and a lay-over day to explore on your own. *Leaders: Frances and David Reneau. Price: adult \$390, child \$260; Dep: \$50. [93071]*

Havasu Canyon Adventure, Gem of the Grand Canyon, Arizona—June 6–12.

Hidden on the Havasupai Reservation in the Grand Canyon is a desert paradise. From Hualapai Hilltop to our base camp on the banks of Havasu Creek we pass through four geological formations. We'll enjoy swimming in turquoise-blue pools beneath spectacular waterfalls, hiking, horseback-riding, exploring the canyon, photography, family adventure, and relaxation. Minimum age eight. *Leaders:*

Beth and Bob Flores. Price: adult \$570, Dep: \$100; child, \$380 Dep: \$50. [93268]

Clair Tappaan Teen Week, Tahoe Forest, Sierra—June 27–July 3.

The Sierra Club's own Clair Tappaan Lodge near Lake Tahoe will host this event. The outing is designed for families with at least one teenager. Plan on lots of out-

door action, helping out with the chores, good food, relaxation, and family fun. *Leaders: Beth and Bob Flores. Price: adult \$440, child \$295; Dep: \$50. [93269]*

Donner Pass Discovery, Tahoe Forest, Sierra—July 11–17.

Come by plane, train, or automobile to Donner Summit and join us in exploring the lakes, peaks,

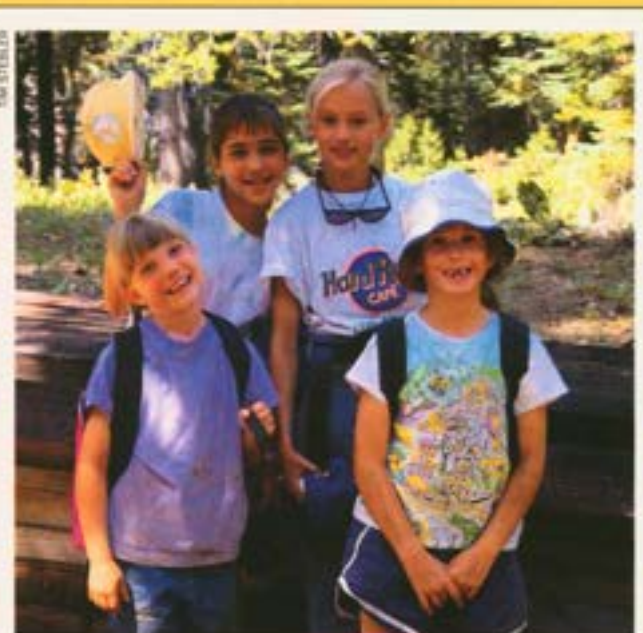
streams, and historic areas of this region of the Sierra Nevada. Clair Tappaan Lodge in Norden is rustic and relaxing, providing hot meals, hot showers, and a hot tub in an alpine setting. Suitable for children five years and older. *Leader: Jennifer Taddel. Price: adult \$305, child \$195; Dep: \$50. [93270]*

Lamarck and Wonder Lakes, John Muir Wilderness, Sierra—July 17–24.

This Sierra camping trip for adults and children (six and up) offers fishing, hiking, peakbagging, local flora and fauna, or just resting. While mules carry our gear, we will walk the four miles from North Lake (9,200 feet) out of Bishop to the Lamarck/Wonder Lakes area (11,200 feet) for an invigorating week in a beautiful place. *Leader: Carol and Tom Baker. Price: adult \$555, Dep: \$100; child \$370; Dep: \$50. [93271]*

Ice Lakes Backpack, Popo Agie Wilderness, Wyoming—July 24–31.

Explore this remote wilderness of glaciers, peaks, and lakes in the eastern Wind Rivers area with teens and their families. Long hiking days (six to eight miles) alternate with layover days for fishing, glissading, or climbing Wind River Peak (13,192 feet).



TAM STEINBERG

Children at Donner Summit, California.

Anasazi ruins, Canyonlands National Park, Utah; right, cedar waxwing chick; far right, fixing dinner in Olympic National Park, Washington.

CHILD
PRICES
APPLY TO
PARTICIPANTS
AGE 18 AND
UNDER.

Nights will be cool and days warm at high-altitude camps. Learn to travel light and leave no trace! Backpacking experience necessary. (Rated M-S) *Leaders: Joanie and Mike Hoffmann.* Price: adult \$370, child \$245; Dep: \$50. [93272]

Acadia Toddler Tromp I, Acadia Park, Maine—July 25–31. From our base camp we'll explore tide-pools, rocky shores, sandy beaches, and climb Cadillac Mountain on trails suitable for children. We'll pick blueberries, watch a sunset, swim, see birds, seals, and possibly whales. Evenings include campfires, marsh-mallow roasts, singing, and a "Down East" lobster dinner. Families new to camping and veteran families alike find this outing a fun and memorable experience. *Leader: Ginny Coombs.* Price: adult \$570, Dep: \$100; child \$380; Dep: \$50. [93273]

Golden Lakes Loop Backpack, Okanogan Forest, Washington—July 25–31. This 23-mile loop on the rainshadow side of the North Cascades takes us past five lakes, over three passes, and through a beautiful landscape of larches and wildflowers. Three

layover days will give us time to explore, relax, admire waterfalls, and enjoy the views. This trip is designed for families with children ten and older, with beginners welcome. (Rated L) *Leaders: Marilyn and Bill Gifford.* Price: adult \$380, child \$255; Dep: \$50. [93274]

Clark Lakes, Ansel Adams Wilderness, Sierra—July 31–August 7. This trip, offering vigorous hikes and breathtaking views, is for families with children eight and older. Beginning at June Lakes (7,700 feet), we climb eight miles (including some strenuous stretches) to Clark Lakes (9,900 feet). We'll enjoy fishing, swimming, and relaxing, along with hikes to Thousand Island Lake, Gem Lake, or to some of the many peaks in this lovely area. *Leaders: Donna Wells and Becky Lynch.* Price: adult \$480, child \$320, Dep: \$50. [93275]

Agnew Meadows, Ansel Adams Wilderness, Sierra—August 1–5. Our base in a red fir forest at Agnew Meadows Campground is ideal for families with children four and older. There will be opportunities for easy dayhikes into nearby Ansel Adams Wilderness

and the Middle Fork of the San Joaquin River, with its lofty peaks, varied geology, and abundant wildflowers. Other activities include fishing, sightseeing, naturalist/ranger programs, and evening campfires. *Leaders: Margaret and Vern Clevenger.* Price: adult, \$210, child \$145, Dep: \$50. [93276]

Acadia Toddler Tromp II, Maine—August 1–7. See description for trip #93273 above. *Leader: Ginny Coombs.* Price: adult \$570, Dep: \$100; child \$380, Dep: \$50. [93277]

Clair Tappaan Lodge Service Trip, Tahoe Forest, Sierra—August 1–7. We'll stay at the rustic Lodge near historic Donner Summit and do trail work. Spend free days hiking, swimming, fishing, relaxing, or visiting nearby Lake Tahoe. Suitable for children four years and older. *Leaders: Elaine and Timothy Stebler.* Price: adult \$230, child \$160, Dep: \$50. [93278]

Stehekin Valley, North Cascades, Washington—August 1–7. Families will enjoy the seclusion and grandeur of Stehekin Valley. This historically rich alpine

area is reached by traveling the 50-mile length of Lake Chelan by ferry. Dayhikes on scenic trails of varying difficulty are suitable for children six and older. The Courtney Ranch provides rustic lodging and delicious family-style meals. *Leaders: Jennifer and Ron Taddei.* Price: adult \$695, Dep: \$100; child \$465, Dep: \$50. [93279]

Skyline to the Sea Adventure, Santa Cruz Mountains and Coast, California—August 2–8. Pack your hiking boots and swimsuit for this moderate, nature-oriented trip, appropriate for kids six and older. We'll start by exploring the redwood-filled gorges of Big Basin State Park, where we'll camp on an idyllic meadow, visit waterfalls, and ride a narrow-gauge train. Moving to the coast, we'll visit a mammal reserve and stay at a lighthouse. *Leader: Paris Lemos.* Price: adult \$335, child \$225; Dep: \$50. [93280]

Snowbird Wilderness Backpack, Nantahala Forest, North Carolina—August 8–14. Enjoy Snowbird with your family on this 16-mile hike through the former hunting grounds of the Cherokee.



Sierra Club 1993 Summer Environmental Workshop

8th Annual Program for Educators
Monday July 5–Monday July 12

Clair Tappaan Lodge in the Sierra
at Norden, California

- Activities to explore diverse habitats.
- Special electives to enjoy the Sierra ecosystem.
- Focus on current environmental issues.
- Strategies for educating for global change.

COST

Adults \$285 Teens \$230

Children (7–12) \$200

Cost includes room, board, tuition, insurance, trips, snacks, and special materials and resources.

This workshop is designed for environmental education professionals, teachers, and their families.

For information, contact Michele Perrault, Workshop Director, 510-283-6683.

We'll see several large waterfalls, many streams, and snuggle down each night in the southern Appalachian forest. Our pace and one layover day allow opportunities for photography, field work, swimming, fishing, or being lazy. For novice backpackers and kids eight and older. (Rated L) Leader: Marty Joyce. Price: adult \$300, child \$200; Dep: \$50. [93281]

Family Backpack, Stehekin Valley, North Cascades, Washington—August 8–16. Enjoy a relaxing backpack trip with your children (minimum age five). Horses carry community food and gear while we enjoy high mountain meadows and streams, and a menu including cinnamon rolls, pizza, and burritos. A dayhike on a snowfield to view the Goode Glacier will be a highlight. The last two days will be spent relaxing at the Courtney Ranch. Leader: Roger L. Faulkner. Price: adult \$850, child \$570; Dep: \$100. [93282]

Stehekin Valley, North Cascades, Washington—August 16–22. Enjoy the camaraderie of hiking and exploring this isolated valley with other families. Day-

hikes from our comfortable base camp take us along the river, up into the mountains, to waterfalls, and more. We'll observe wildflowers and wild creatures, ending each day with the hearty, scrumptious fare for which the Courtney Ranch is famous. Suitable for children five and older. Leader: Libby Dresel. Price: adult \$695, Dep: \$100; child \$465, Dep: \$50. [93283]

Skyline to the Sea Backpack, Santa Cruz Mountains and Coast, California—August 22–28. Families with budding or experienced backpackers will find this leisurely, nature-oriented outing the perfect getaway. Our 32-mile descent takes us through old-growth redwoods in Big Basin and ends at Pigeon Point Lighthouse on the coast. Enjoy wind-swept panoramas, waterfalls, and possibly a side trip to Monterey Bay. We spend each night at a comfortable trail camp. Minimum age ten. Leader: Susanne George. Price: adult \$295, child \$195; Dep: \$50. [93285]

Note: See Alaska, Base Camp, Burro, Hawaii, Highlight, and Water for other trips appropriate for families.

1993 SUMMER ENVIRONMENTAL WORKSHOP REGISTRATION FORM

Name _____

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City _____

State _____ Zip _____

Do you wish teaching credits? _____

Please send an informational brochure.

DEPOSIT for registration (non-refundable) \$50
\$10 late fee after May 15.

To register or receive additional information, send to:
SIERRA CLUB EDUCATORS' WORKSHOP
c/o VOLUNTEER DEVELOPMENT OFFICE
Sierra Club, 730 Polk St., San Francisco, CA 94109

or call:
Michele Perrault, Workshop Director, 510-283-6683



DAVID J. PHILLIPS



JAMES W. WATSON

Heliconia flowers; above, Haleakala, Maui; right, waterfall on Kauai; far right, Kauai beach at sunset.

Hawaii

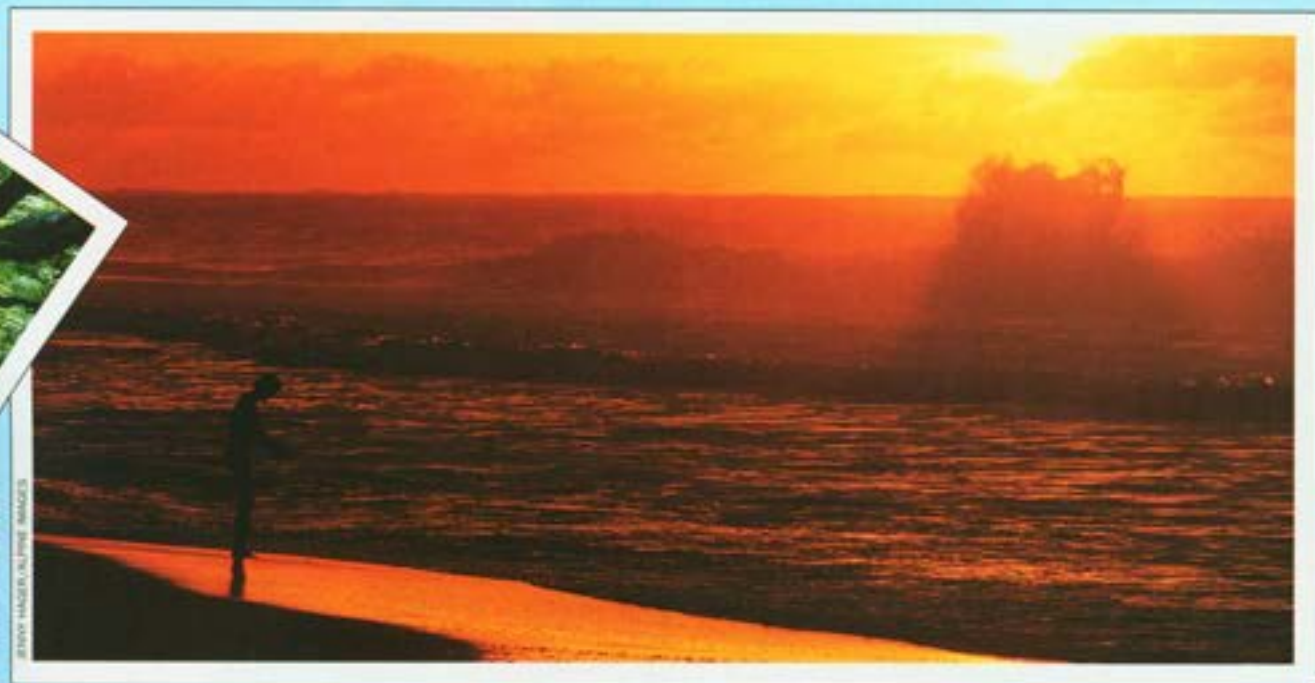
The Hawaiian Islands offer unsurpassed beaches, rainforest as well as desert, delicious and exotic food, and natural splendor at every turn. Get off the beaten path—join a Sierra Club Hawaii trip, and experience the islands as few tourists do. This year we have trips to entice everyone—backpackers, car-campers, families, and willing volunteers. * Accommodations vary from oceanfront lodges to campgrounds. Camping is in public or private parks, often within sight and sound of the Pacific Ocean, and usually with amenities like hot showers. * On most trips, travel from camp to camp is by car. All outings include dayhikes, and optional overnight hikes are available on some.

Humpback Whales in Hawaii Nature Survey, Maui—March 13–27. Each winter, the ocean off the island of Maui shelters humpback whales and their calves. We will be studying the impact of boat traffic on the whales, working to help these magnificent creatures survive and thrive. Our pace will be comfortable and there will be plenty of time to hike and explore the wonderful mountains and beaches of the island. Leaders: *Kent Erskine and Ray Simpson.* Price: \$1,145; Dep \$200. [93072]

Kauai Family Adventure—April 3–10. Our destination in Kauai was relatively unscathed by last September's Hurricane Iniki, and the island will be back on its feet and ready to welcome us in April. Enjoy the beautiful Na Pali coast, rugged Waimea Canyon, mystical Alakai Swamp, lush Hanalei Valley, and picturesque beaches. Hiking, snorkeling, and sightseeing will be available. We will stay in rustic lodging on the beach. Children of all ages are welcome. Leaders: *Ima and Wayne Martin.* Price: adult \$785, child \$525; Dep: \$100. [93073]

Exploring Maui Family Trip—June 20–28. Enjoy Hawaii's "Valley Isle" on this car-camping trip. We begin by exploring the flora, fauna, and terrain of dormant Haleakala. Moving to cabins near Hana, we'll visit red sand beaches, bamboo forests, waterfalls, and the Seven Pools. From our final campsite near Fleming Beach Park we will be able to snorkel among coral reefs in a marine sanctuary. Minimum age six. Leaders: *Karen and Stan Johnsen.* Price: adult \$705, Dep: \$100; child \$470, Dep: \$50. [93287]

From the Mountaintop to the Sea, Haleakala Park, Maui—October 16–24. We'll explore an extraordinary variety of environments as we make our way from the top of the dormant volcano Haleakala (10,023 feet) to the coastline near Hana. After hiking in Haleakala's moonlike crater for two days, we'll walk through a gap in the crater's rim down to the sea, where we will have time for swimming, sunbathing, snorkeling, and picture-taking. Discover why "Maui is the best!" Leader: *Lou Wilkinson.* Price: \$1,065; Dep: \$200. [93288]



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San Juan Mountains, Colorado (reprinted from *Mother Earth*); above, columbine; right, Teton sunset; far right, hikers in side canyon of Green River, Canyonlands, Utah.

Highlight

Highlight trips are designed for people who like to hike or walk and cover a lot of territory with only a daypack. * For luxurious mountain travel, try one of our wilderness highlight trips. On moving days pack animals carry 22 pounds per person plus all food and equipment from camp to camp. You are free to hike to the next camp at your own pace, enjoying unencumbered opportunities to fish, climb, or hike to isolated viewpoints. * Other highlight trips go to less remote areas and use vans to go from place to place, enabling you to visit a wider area. Accommodations range from campgrounds to bed-and-breakfasts. * Families with children nine or older are welcome. Routes and mileages are within the ability of anyone who has done a reasonable amount of conditioning beforehand.

Historic Landmarks in the Old South, Louisiana and Mississippi—March 7–13. Lovers of history can step into the past on this bed-and-breakfast tour of plantations and gardens. Your southern experience begins in the French Quarter of New Orleans, takes you across Louisiana to Natchez, Mississippi, then north to the Civil War battleground of Vicksburg. Accommodations include antebellum mansions styled in the romantic tradition of the Deep South. Leader: Bill Carroll. Price: \$1,095; Dep: \$200. [93075]

Van and Hiking Tour, Canyons of Southeast Utah—April 11–17. Dayhike in out-of-the-way canyons near Canyonlands and Lake Powell. We will enjoy sunny days, creeks and waterfalls that run only in spring, blooming desert flowers, and remote Anasazi ruins. The canyons are all rugged and scenic, but each is unique. Our moderately paced hikes will be long but not difficult. Leader: Rose Certini. Price: \$645; Dep: \$100. [93076]

California's Napa, Sonoma, and Mendocino Counties—June 9–19. Come visit this famous region of Northern California on a leisurely van tour. Hiking and driving on alternate days, we will explore the coast, mountains, forests, and valleys of this scenic area, visiting places most tourists never see. We will study local history and visit two unique

technological sites. We will camp mostly in state parks and eat fresh gourmet food. Leader: Emily Strauss. Price: \$685; Dep: \$100. [93290]

Fly-Fishing the Blue Ribbon Trout Waters, Greater Yellowstone, Wyoming, Montana and Idaho—July 4–10. Try your luck on the Henry's Fork, Madison, Yellowstone, Snake, Slough, Firehole, Gibbon, and Gallatin rivers. On this trip, timed for the major insect hatches, five-pound trout could be yours on these catch-and-release-only-quality waters. We'll car-camp, hike some, and

enjoy nightly lectures on entomology, fly-casting and tying, river ecology and conservation. Leader: David Morrison. Price: \$470; Dep: \$50. [93291]

Hiking the Grand Tetons, Targhee Forest, Wyoming—July 17–24. The majestic panorama of the Tetons is the backdrop for our leisurely paced hike through the southern portion of the western slope in the Targhee Forest. We will camp in glaciated valleys and high granite basins amid lakes and streams. Our three lay-over days will offer fishing, peak-climbing, dayhikes, and more.

Come enjoy a wonderful Grand Teton experience. Leader: Bert E. Gibbs. Price: \$975; Dep: \$100. [93292]

Evolution Valley, Sierra—August 8–20. Our hike will be from North Lake to South Lake, crossing Piute, Muir, and Bishop passes. This world-class high route traverses some of the most scenic and varied terrain in the Sierra Nevada. Two layover days will be spent at Evolution Lake. Other days will find us in Humphreys Basin, LeConte Canyon, and Dusky Basin. All who appreciate mountain walking are welcome. Leader: Jerry Clegg. Price: \$1,220. Dep: \$200. [93293]

Lake Michigan Odyssey, South Manitou Island, Sleeping Bear Dunes Park, Michigan—August 15–21. Operating from a base camp, we'll undertake leisurely dayhiking on unpeopled South Manitou Island and along the Sleeping Bear Dunes Lakeshore. Enjoy magnificent Lake Michigan vistas, relax on secluded beaches, and explore the island for relics of a once-thriving rural community. A lighthouse, abandoned homesteads, and dune life will be intriguing for photographers. Leader: Jack Thompson. Price: \$395; Dep: \$50. [93294]

Grand Tetons Leisure Ramble, West Slope North, Targhee Forest, Wyoming—August 15–22.



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Cabernet sauvignon vines and mustard weed, Alexander Valley, California (reprinted from *Mother Earth*); inset, hikers resting in Wyoming.



Called a massive work of art, the rugged peaks of the Grand Teton form the backdrop for our ramble through the Targhee Forest just west of Grand Teton National Park. Wildlife and wildflowers should be in abundance, and three layover days will give us plenty of time to explore, swim, fish, or just plain relax. Don't forget your camera! **Leaders:** Laura and Sy Gelman. **Price:** \$975; **Dep:** \$100. [93295]

Sawtooth Wilderness, Idaho—August 22–29. With its high granite peaks set against azure skies or reflected in deep blue lakes, this is one of the most beautiful spots in the West. Wildlife includes mountain goats, elk, deer, and black bear. We will hike along the Payette and Salmon rivers, crossing high passes. On layover days we can relax, swim, fish, or climb peaks in this photographer's paradise. **Leaders:** Diana Bunting and Modesto Plaza. **Price:** \$985; **Dep:** \$100. [93296]

Crest of the San Juans, Weminuche Wilderness, Colorado—September 5–12. September's

crisp, clear days are best for viewing the southern Rockies from the Continental Divide Trail. Our packer-supported trek in the San Juan Range north of Durango will mostly be near timberline (11,000 to 12,400 feet). Hiking six to nine miles a day without heavy packs allows for scenic side trips or just enjoying that top-of-the-world feeling. **Leaders:** Marlen Mertz and Eric Sieke. **Price:** \$1,055; **Dep:** \$200. [93297]

Sixty Lake Basin, Kings Canyon Park, Sierra—September 11–19. September is a wonderful month in the High Sierra. The after-summer-season quiet will have returned to this popular lake basin off the John Muir Trail under Mt. Clarence King. We'll go in over Kearsarge Pass, and move north, coming out over Sawmill Pass. We have three layover days to explore the high country, camping at near 10,500 feet. **Leaders:** Emily and Gus Benner. **Price:** \$855; **Dep:** \$100. [93298]

Note: See Alaska, Base Camp, Burro, Hawaii, and International for other similar outings.

CONSERVATION CHALLENGE

Ursus Arctos Horribilus and Canis Lupis— Two Endangered Species

When European exploration began 500 years ago, 100,000 grizzly bears roamed all over North America. Today, it is estimated that fewer than 800 grizzlies live in the West. Historically, wolves also occupied most of North America, but when 19th-century hunters and settlers replaced the West's herds of bison and elk with domestic cattle and sheep, wolves became a nuisance. In Montana alone, 80,730 wolves were killed from 1883 to 1918, and another 24,000 were exterminated under a federal bounty program from 1915 to 1942. In 1975 the U.S. Fish and Wildlife Service began programs for the recovery of both the grizzly bear and the gray wolf. The reintroduction and recovery of these predators to the West is an extremely emotional and controversial issue. Attacks on the Endangered Species Act, which should provide protection to these animals and their habitats, have been well-organized and relentless. To preserve the grizzly and the wolf we must conserve its wilderness ecosystem. That is both the mandate and the wisdom of the Endangered Species Act. The recovery plan for the grizzly bear is in process but sadly lacking in adequate protection of bear habitat. The Draft Environmental Impact Statement for Wolf Reintroduction will be in full swing next spring.

What you can do: Become a wolf or grizzly bear activist by writing to: Sierra Club, Northern Plains Office, 23 N. Scott, Room 25, Sheridan, Wyoming 82801.

Also consider going on trips #93149 and #93291 to the Yellowstone ecosystem area, or trips #93346 and #93361 in Glacier National Park.

Join Now And See What You Can Save.



Photo © P. Morgan/Newsweek/Photo Bank & Artists



As you read this, you could help save a rainforest. Prevent a wetland from being drained. Or protect an endangered species. You can do all this, and more, by joining the Sierra Club today.

There have never been more reasons to save.

MEMBERSHIP FORM

Yes, I want to help save the earth!

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CONTRIBUTING	<input type="checkbox"/> \$100	<input type="checkbox"/> \$108
STUDENT	<input type="checkbox"/> \$15	<input type="checkbox"/> \$25
SENIOR	<input type="checkbox"/> \$15	<input type="checkbox"/> \$25
LIMITED INCOME	<input type="checkbox"/> \$15	<input type="checkbox"/> \$25
LIFE	<input type="checkbox"/> \$750	<input type="checkbox"/> \$1000

Annual dues include subscription to *Sierra* magazine (\$7.50) and chapter publications (\$1). Dues are not tax-deductible.

Enclose check or money order and mail to:

Sierra Club

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Worldwide Outings Program

Let us guide you, teach you, astound you. Sierra Club trips can take you to the far corners of the earth — paddling or peddling, ski touring or trekking. We offer hundreds of exciting outings, from the tundra to the tropics. You can also participate in our Service Trips, during which, in addition to having fun, you'll perform such valuable functions as trail building, environmental clean-up, and archeological site preservation.

Local Chapter Membership

As a member of your local chapter, you'll receive up-to-date news on conservation issues plus invitations to chapter events. You can also volunteer for local or national conservation campaigns.



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1. Do you hope more young people take up smoking?

If so, a suitable investment for you might be RJR Nabisco. Their pitchman, Joe Camel, is recognized by 91% of 6 year olds, according to a study published in the *Journal of the American Medical Association*.

If you prefer a smoke free environment, Calgon Carbon may be a better choice, they make air filters.

2. Do you think we should continue to stockpile more and more nuclear weapons?

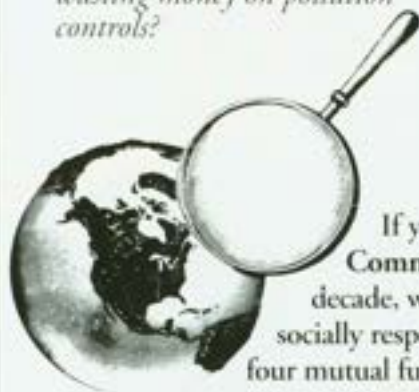
Then consider General Dynamics, they make the Cruise Missile.

If you would prefer to make an impact in a more peaceful manner, may we suggest Sallie Mae which finances higher education.

3. Do you think companies are wasting money on pollution controls?

An attractive investment for you might be American Cyanamid. According to the EPA they released and transferred 202 million pounds of toxic waste in 1989.

For a healthier alternative, consider General Mills, the only thing they released was the best selling new cereal, Multigrain Cheerios.



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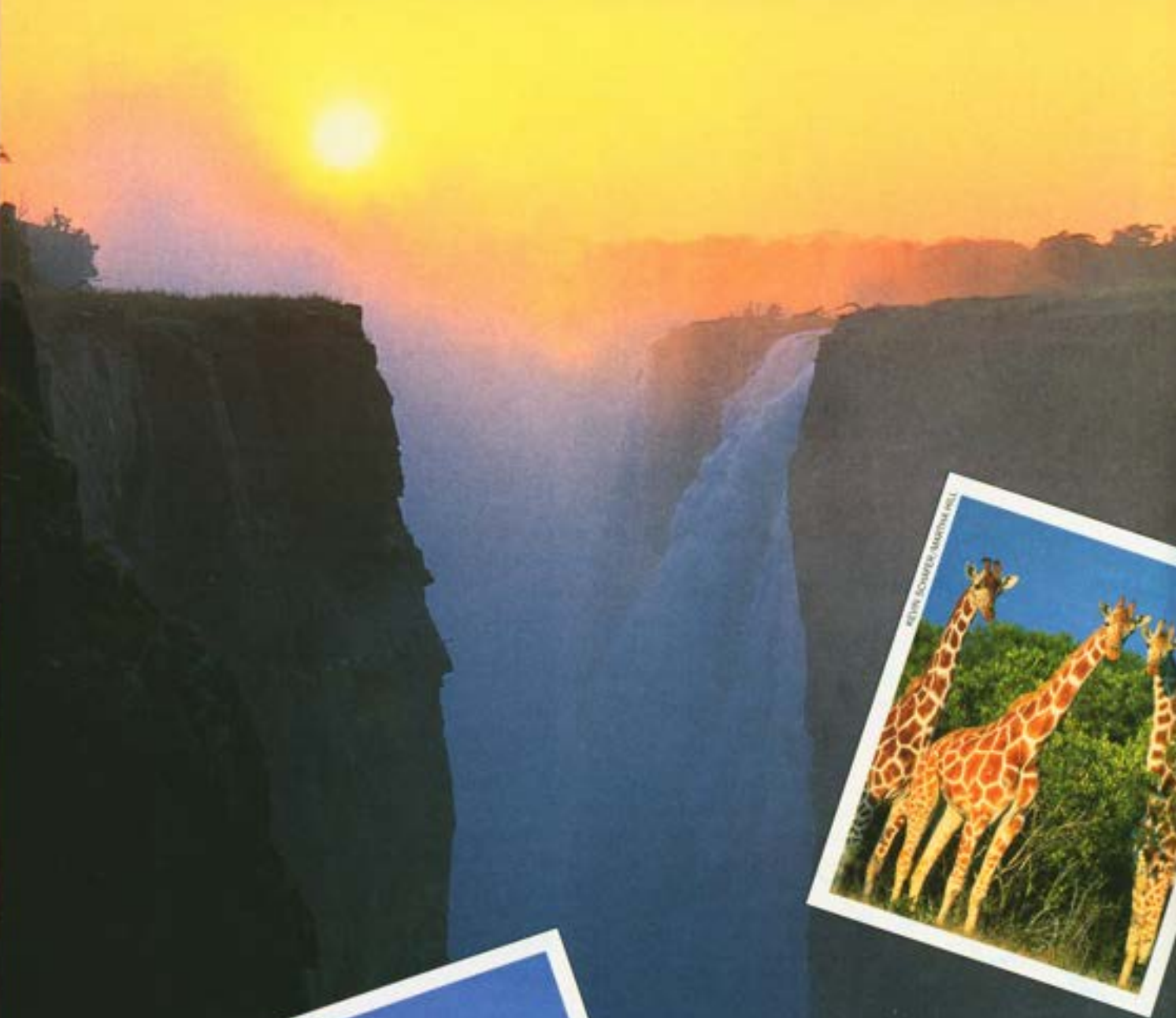
Our minimum investment is \$250. Please call us for a prospectus with full details of fees and expenses. Read it carefully before you invest. Ask for our free booklet: *Wealth of Values: The Citizen's Guide to Socially Responsible Investing*. IRAs and Automatic Investment Programs are also available.



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Sunset over Victoria Falls, Zimbabwe; left, photographers on safari, Serengeti; above, giraffes; right, young girl with small child, Nepal.

International

Enjoy wilderness adventure travel in some of the most exotic locations on Earth. On our international trips, participants meet local people, enjoy their cuisine, and learn to appreciate their customs and traditions. * Trips range from physically demanding to quite leisurely. On some trips participants camp in remote areas; on others you stay in guesthouses, alpine huts, homes of friendly hosts, or comfortable and quality-conscious hotels. Read the trip description and brochure to determine which outing is for you. * Our experienced leaders will introduce you to the conservation issues of the host country; you may even meet with local environmentalists. This environmental component sets Sierra Club trips apart from those run by ordinary tour companies. * Please note that international trips are tier-priced; for an explanation of tier-pricing, see page 137. Trip prices do not include airfare.

AFRICA

Tanzania Wildlife Safari—June 19–July 3. A variety of experiences and encounters awaits the photographer and wildlife enthusiast on this comprehensive safari. We'll visit the prime wildlife-viewing areas of Ngorongoro Crater, Lake Manyara, Tarangire, and the Serengeti as well as lesser-known Lake Natron, Mt. Meru, and Lolisikwan, where we will explore by vehicle and on foot. Our accommodations will be in comfortable tent camps and lodges. For two days we will enjoy the sights of Nairobi, Kenya. *Leader: Ruth Dyche.* Price: \$3,880 (12–15) / \$4,155 (11 or fewer); Dep: \$200. [93770]

Victoria Falls, Okavango Delta, and Wildlife Parks of Zimbabwe and Botswana—July 24–August 7. We'll marvel at thundering Victoria Falls and at seldom-visited wilderness areas unchanged through the ages. Hwange and Chobe National Parks boast Africa's largest undiminished elephant herds as well as many other mammals. Our days will be filled with game-viewing from Land Rovers and blinds, and with optional walks. We'll experience the pristine wetlands of the Okavango Delta by dugout canoe and on foot. Here bird life is abundant and colorful, and photo-

graphic opportunities abound. Our comfortable camps will be located in remote areas away from other park visitors. Several airflights (not included in the trip price) will eliminate long drives. *Leader: Mary O'Connor.* Price: \$4,550 (12–15) / \$4,825 (11 or fewer); Dep: \$200. [93805]

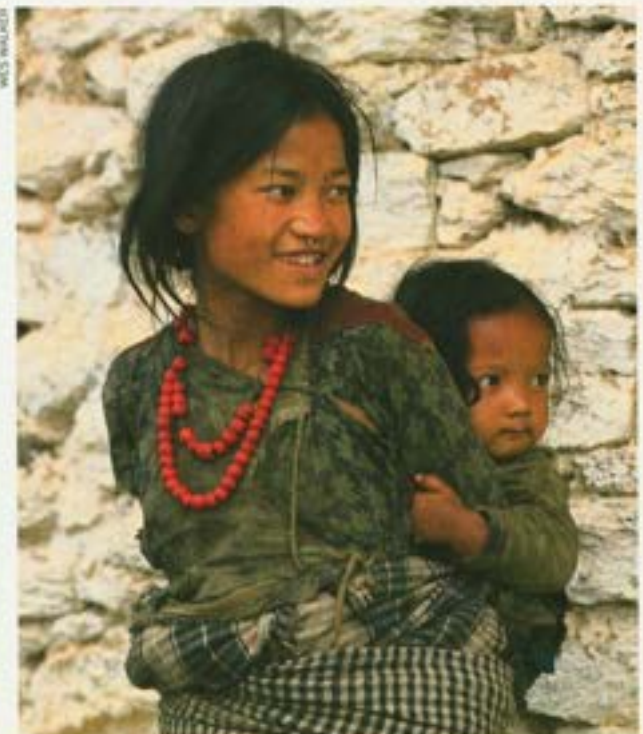
ASIA

Tilicho Lake-Annapurna Circuit Trek, Nepal—May 3–30. With its breath-taking view of the 26,000-foot peaks of the Annapurna massif and the treacherous Dhaulagiris, Tilicho Lake is one of the most spectacular and

highest lakes in the world. Our trek will take us gradually from the subtropical villages thronging with diverse Nepali and Tibetan peoples to Tilicho Lake just below 17,771-foot Thorong La pass. On our return we'll descend through one of the deepest gorges in the Himalayas, back to the welcome sight and bustle of Nepali towns. *Leader: Frances Colgan.* Price: \$2,430 (12–15) / \$2,675 (11 or fewer); Dep: \$200. [93740]

A Hiking and Bus Tour of Central Asia, China, and Russia—June 18–July 7. For those interested in current events and the history of Central Asia—as well as its monuments, astonishing scenery, and mosaic of peoples—this trip offers much that should satisfy. Enjoying the freedom of bus travel, we'll journey from Samarkand in Uzbekistan to Kashi, China, then north to the Fergana Valley in Kirgizstan and Alma Ata in Kazakhstan, collecting memories of dayhikes, tent camping, traditional inns, extraordinary markets, inland seas, and mountain passes. *Leader: Jerry Clegg.* Price: \$2,235 (12–15) / \$2,480 (11 or fewer); Dep: \$200. [93765]

Mustang: The Forbidden Kingdom, Nepal—June 20–July 16. Not open to trekkers until this year, the Tibetan kingdom of





Mustang stands alone: a unique, socioeconomic system of unparalleled contrasts—desolate landscapes, Buddhist monasteries, and a proud Tibetan people. The Nepalese government has given the Sierra Club special permission to visit this unearthly land located high on the Tibetan plateau, just to the north of the awe-inspiring Annapurna and Dhaulagiri massifs. From Kathmandu we'll fly to Pokhara and then to Jomosom (airfare not included in trip price). Four days of hardy trekking will take us to the entrance of Mustang, where we will spend seven days exploring. We'll return to Pokhara via the Kali Gandaki River gorge. *Leader: David Horsley. Price: \$3,075 (12-15) / \$3,350 (11 or fewer); Dep: \$200. [93780]*

Throne Room of the Thunder Dragon, Bhutan—October 3-26. We will trek near the Lunana area, the highest and wildest in Bhutan. Following the routes of an early explorer, Augusto Gansser, we'll enjoy its high mountain views without traversing the logistically difficult Lunana Valley. During our exhilarating 17 trekking days we will also visit the Chomolhari region. Our trip samples Bhutanese culture, and our hiking days vary from about 8 to 15 miles at altitudes from 8,000 to 16,000 feet. With its abundant flora and fauna, Bhutan's unspoiled landscape is unparalleled among Himalayan countries. *Leaders: Jane and John Edginton. Price: \$5,090 (12-15) / \$5,370 (11 or fewer); Dep: \$200. [93830]*

Roilwaling Himal, Nepal—November 8-30. Join our 20-day trek into the remote Roilwaling Himal west of Mt. Everest and a few miles south of the Tibetan border. Known as the "Furrow" in the Sherpa language, the Roilwaling has always held a mysterious fascination. Tales of the yeti, the elusive abominable snowman, have poured from the handful of Sherpas who live there. The lower Roilwaling is dominated by Gauri Shankar peak, while our highest camp at almost 15,000 feet is at the base of the great ice-wall of Chobotse. *Leader: John DeCock. Price: \$2,110 (12-15) / \$2,335 (11 or fewer); Dep: \$200. [93845]*

Gorkha-Trisuli Holiday Trek, Nepal—December 18-31. Leave the holiday madness behind and enjoy Himalayan wilderness solitude on this little-known route in the shadows of Manaslu and Ganesh massifs. This moderate trek (maximum elevation 12,500 feet) starts in Gorkha, then continues along ridges and river valleys, until reaching our destination at Trisuli Bazaar. Contact with villagers, the warmth of our Sherpa and Tamang staff, and the watchful presence of the great Himalayan peaks make for a rewarding pilgrimage to the "Roof of World." *Leader: David Horsley. Price: \$1,690 (10-12) / \$1,880 (9 or fewer); Dep: \$200. [93860]*

The Hidden Kingdom on the Roof of the World, Kathmandu-Lhasa Overland, Nepal and Tibet—April 17-30, 1994. Few places have captured men's

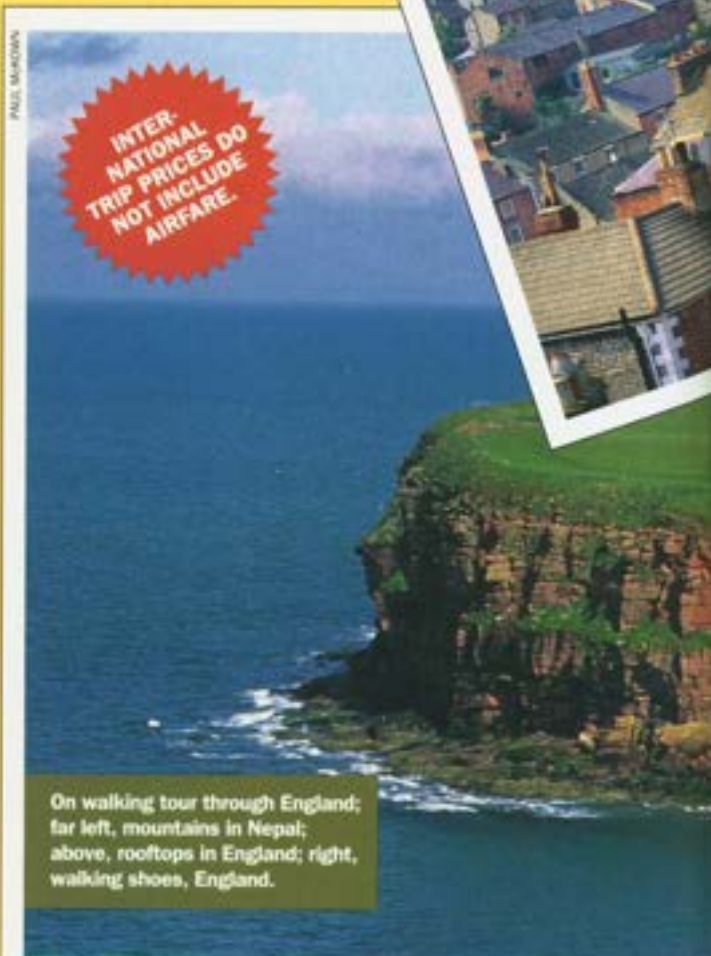
imaginings like the isolated, windblown mountain fastness of Tibet. Protected for centuries by natural barriers, this high, semi-arid plateau with its ancient cities and Buddhist monasteries is now partially open to foreign travel. On this high-elevation trip, we explore and enjoy this mysterious land by bus and by foot. We'll visit cultural and historic sites, including Sakiya Monastery in Xiagaze, Tashi Lumpo, and the Potala in fabled Lhasa. *Leader: Patrick Colgan. Price: \$2,530 (12-15) / \$2,805 (11 or fewer); Dep: \$200. [94510]*

EUROPE

A Leisurely Tour of Picturesque Portugal—May 9-23. Departing Lisbon by van, we will explore scenic northern Portugal, a region not yet spoiled by tourism. Wending our way along the eastern border with Spain, we'll stop to walk and browse in the ancient walled cities of Montsarras and Guarda, built by the Moors and Romans. Then, turn-

ing west toward the Atlantic Ocean, we'll spend several days in forested national parks and in valleys with exquisitely terraced vineyards—the source of famous Port wines. Along the coast we'll visit small fishing villages and tramp pristine beaches and dunes. Our return to Lisbon is via the beautiful Estoril coastline. *Leader: Ray Simpson. Price: \$2,795 (12-15) / \$3,075 (11 or fewer); Dep: \$200. [93745]*

Hiking and Island-Hopping in Greece—May 15-30. Zorba's free spirit will inspire us as we experience the many gifts of Greece. From comfortable hotels, family pensions, and a mountain refuge, we will day-



INTER-NATIONAL TRIP PRICES DO NOT INCLUDE AIRFARE.

On walking tour through England; far left, mountains in Nepal; above, rooftops in England; right, walking shoes, England.

hike, visit ancient ruins (including the Acropolis, Delphi, Corinth, and the cliff-top monasteries of Meteora), and explore picturesque islands in the Aegean Sea. We'll travel by van, train, hydrofoil, ferry, and on foot. **Leader:** Carolyn Castleman. **Price:** \$3,070 (12-15) / \$3,345 (11 or fewer); **Dep:** \$200. [93750]

England's Coast to Coast Walk: From the Irish Sea to the North Sea—May 23–June 5. Join us on a walk across the breadth of England through three of the country's most scenic national parks—the Lake District, the Yorkshire Dales, and the North York Moors. Our moderate daily hikes will take us to the towns of Grasmere, Keld, and Robin Hood's Bay! Our luggage will be transported each day by mini-bus to our overnight accommodations in comfortable lodges and bed-and-breakfasts, where we'll meet fellow hikers from around the world. **Leader:** Lou Wilkinson. **Price:** \$2,605 (11-14) / \$2,910 (10 or fewer); **Dep:** \$200. [93755]

Walking the Dingle Peninsula, Ireland—June 13-19. Starting in Tralee, County Kerry, we will walk the gentle trails of the Dingle Peninsula past fascinating archaeological sites. We'll hear lilted Irish folk music at a unique musical theater and stay in quaint bed-and-breakfasts along the way. Our luggage will be transported for us so we need carry only daypacks. On the last leg of our walk, looking out over the Atlantic Ocean, we'll be in "the nearest parish to America." This trip can be taken as an extension of trip #93785. **Leader:** Lou Wilkinson. **Price:** \$1,465 (11-14) / \$1,685 (10 or fewer); **Dep:** \$200. [93760]

Bike and Hike in Ireland—June 21–July 4. Ours will be a vehicle-supported, leisurely paced bicycle tour of the west of Ireland suitable for all ages and skills. We'll explore ancient ruins, prehistoric ringforts, peat bogs, the Aran Islands, and enjoy optional mountain hikes. Our accommodations will be in cozy bed-

and-breakfasts. At night, we'll enjoy music and dancing in traditional Irish pubs. Only lively, life-loving souls need apply. This trip can be taken as an extension of trip #93760. **Leader:** Patrick Colgan. **Price:** \$2,600 (12-15) / \$2,875 (11 or fewer); **Dep:** \$200. [93785]

Wilderness Adventuring in Historic Poland—June 28–July 17. Capture an exciting combination of splendid scenery, moderate to challenging dayhikes, whitewater rafting, and visits to historical sites on this first ever Sierra Club journey to Poland. From the high Tatra Mountains (maximum ele-

LEADER FAMILY PROFILE

THE BENNERS

Emily Hatfield went on her first High Trip with her family in 1946. Five years later the Benner family took young Gus on his first High Trip. Emily and Gus worked together in the commissary, holding such jobs as Milk Maid and Lunch Girl, Pot Boy and Digger. One day Gus was slowed down from his usual quick pace by a sprained ankle and ended up walking with Emily. This led to friendship, marriage, and a life of volunteer work in the Outing Program. They've led dozens of trips in Africa, Nepal, and the United States. Gus, a highly respected authority on Mountain Medicine, is the Outing Committee Medical Officer. Emily, who holds a Ph.D. in Clinical Psychology, has served the Committee in many ways, including consultation on the social and psychological aspects of outings. The autumn Outing Committee meeting at the Benner's beautiful home in Berkeley is a long-standing tradition. This year, they will co-lead two trips: Clair Tappaan Lodge trip #93239 and highlight trip #93298.



vation 7,600 feet) to Kampinowski National Park in the lowlands, our wilderness odyssey for experienced hikers includes six national parks. We'll also enjoy visits to Warsaw, Krakow and Kasimierz, and the delightful village of Zakopae. Accommodations include mountain huts, country hostels, and city hotels. **Leader:** Bud Bollock. **Price:** \$2,660 (12-15) / \$2,935 (11 or fewer); **Dep:** \$200. [93795]

Hungary: A New Experience—August 3-14. Try something new and different this summer—join the Sierra Club's first outing to Hungary. On our ten-day hike, we will explore national parks in the Mára and Bükk mountain ranges. Hiking moderately difficult trails between picturesque villages, we'll meet friendly and hospitable people.

of six miles and elevation changes of 3,000 feet. On short hiking days, side trips and peak climbing are possible. **Leader:** Wayne R. Woodruff. **Price:** \$2,355 (12-15) / \$2,625 (11 or fewer); **Dep:** \$200. [93815]

Hiking in the Land of the Midnight Sun: Finland and Russia—August 22-September 4.

Guided by a Finnish Laplander, we'll backpack for five days into endless forests, giant fells, and great silence broken only by our footsteps on the tundra. We'll see the sights of Helsinki and boat to interlocking islands to visit Finland's Castle, outdoor museums, and ancient forts. A train will take us to St. Petersburg for a two-day visit to the "Venice of the North." **Leader:** Jim Halverson. **Price:** \$2,630 (11-14) / \$2,935 (10 or fewer); **Dep:** \$200. [93820]



PAUL MCKOWN

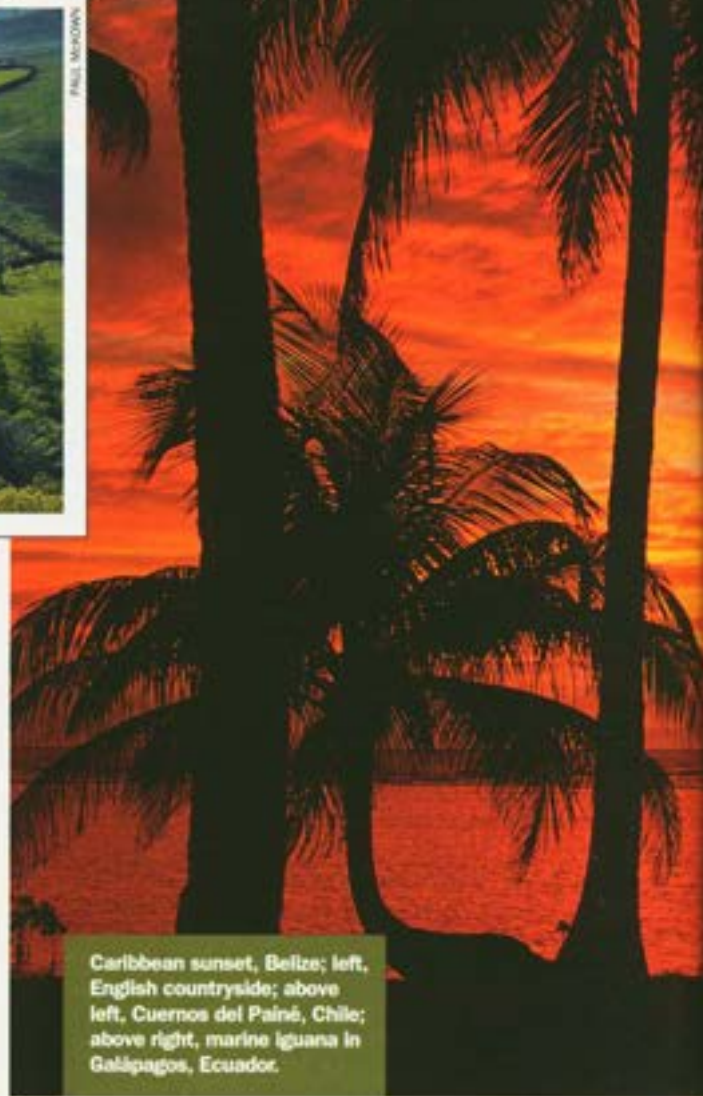
and enjoy rustic hotels, Turkish hot baths, and Hungarian cuisine. A visit to the pearl of the Danube, Budapest and its environs, concludes our venture. **Leader:** Bert E. Gibbs. **Price:** \$2,375 (12-15) / \$2,650 (11 or fewer); **Dep:** \$200. [93810]

Hut Hopping in Austria's Alps and Italy's Dolomites—August 7-22. A week of leisurely hiking begins our outing in the Italian Dolomites east of Bolzano. We'll graduate to moderate hiking our second week in the Niedere Tauern Alps in Austria. Accommodations include rifugios and huts with great food and gregarious local hikers. We need carry only our personal gear and our lunches. Expect hiking distances

Paris, France: A Non-Tourist View—September 20-29. From our small but modern hotel on the Left Bank, we'll walk and use public transit to visit ethnic neighborhoods, parks, outdoor markets, and sidewalk cafes—getting a feeling for how Parisians live. We'll take our meals in a variety of restaurants, meet with environmentalists to learn about local problems and solutions, tour the control center of the Paris Metro, and visit the produce markets at Rungis just outside the city. We'll also hike the Forest of Fontainebleau south of Paris—a favorite Parisian Sunday excursion. **Leaders:** Sandy Topfer and Lynne Simpson. **Price:** \$2,490 (12-15) / \$2,765 (11 or fewer); **Dep:** \$200. [93825]



KEVIN SCHAEFER/AMAZONIA FELL



Caribbean sunset, Belize; left, English countryside; above left, Cuernos del Paine, Chile; above right, marine iguana in Galápagos, Ecuador.

ANTHONY BONNER



LATIN AMERICA

Mexico's Copper Canyon Challenge—February 12–21. Travel to the heart of Mexico's canyon country, a rugged area several times the size of the Grand Canyon. We'll enjoy subtropical vegetation, pass by the homes of Tarahumara Indians, and visit remote mining villages. Along the way, we'll ride on the celebrated Chihuahua-Pacific Railroad that winds through the canyon country. Join us for this combination of backpacking and cross-cultural exchange. Previous backpacking experience is required. Leaders: Roger Grissette and David Derrick. Price: \$1,225 (8–10) / \$1,415 (7 or fewer); Dep: \$200. [93711]

Paine Towers Trek, Patagonia, Chile—February 18–March 4. Imagine yourself amid grandeur the equal of Glacier, Yellowstone, and Yosemite. Forming the southernmost spine of the Andes, the snowcapped Paine Towers preside over calving glaciers, iceberg studded lakes, grand cascades, and diverse landforms and wildlife. Join us on this moderate, packer-supported trek through wilderness solitude. Capping our low-elevation journey, we'll enjoy the straits of Magellan, Punta Arenas, and the capital city of Santiago. Leader: Bud Bollock. Price: \$2,480 (12–15) / \$2,755 (11 or fewer); Dep: \$200. [93715]

Belize: Reef and Ruins, Central America—March 5–16. Using a working ranch as our base, we'll explore Belize's lush interior. Then we'll travel to neighboring Guate-

mala, where we'll visit the island city of Flores and have two full days to experience the magnificent Mayan ruins at Tikal. Returning to Belize's Caribbean coast, we'll spend the remainder of our trip on a palm-fringed island next to a barrier reef. Here we'll snorkel in crystal-clear water, learn about local conservation issues, and feast on fresh seafood. Leader: Lola Nelson-Mills. Price: \$2,315 (10–12) / \$2,570 (9 or fewer); Dep: \$200. [93725]

River Rafting and Rainforest Adventure, Costa Rica—April 12–21. A natural history paradise, Costa Rica boasts unmatched biodiversity. We'll view an active volcano at Poas National Park, then spend three days exploring Corcovado National Park. We'll also visit an archaeological site in the premontane forest of the Guayabo River Canyon. The highlight of our trip will be three days of rafting on two beautiful tropical rivers—the Pacuare and Reventazon, where we'll relish waterfalls, rapids, and inviting pools. Leader: R. Kurt Menning. Price: \$2,150 (12–15) / \$2,415 (11 or fewer); Dep: \$200. [93730]

Sailing Sojourn to the British Virgin Islands—April 20–27. Come sail among the mountainous British Virgin Islands aboard a 50-foot yacht. We will hike through tropical forests, snorkel over coral reefs, and relax on white sand beaches. Our trip starts on the main island of Tortola. We will explore a different island each day and anchor in coves at night. No sailing experience is necessary. Leader: Chuck Blouin. Price: \$2,375 (6–8) / \$2,830 (5 or fewer); Dep: \$200. [93735]

Ecuador: Galápagos Islands and the Amazon Rainforest—June 20–July 3. Experience many different worlds by traveling from Darwin's "Showcase of Evolution" to the extraordinary Amazon rainforests. See exotic and rare birds, giant tortoises, and unusual wildlife—and swim with penguins and sea lions. Visit the Indian market at Otavalo and snowcapped Cotopaxi National Park. Accommodations include hotels, jungle lodges, and our own private boat as we sail among the Galápagos. Leader: Carolyn Castleman. Price: \$3,550 (7–9) / \$3,930 (6 or fewer); Dep: \$200. [93775]

CONSERVATION CHALLENGE

Mexico's Copper Canyon Threatened

The Mexican government and the World Bank are undertaking a 91 million dollar development project that will, in the words of the World Bank fact sheet, "affect a small but significant part of the temperate forests." What it does not say is that this "small" area—the Copper Canyon—is three times the size of the Grand Canyon and home to an estimated 40,000 Tarahumara Indians. The Canyon's rugged landscape has protected the nomadic lifestyle of the Tarahumara people, as well as thousands of acres of old-growth forests. The architects of this logging plan have not taken into account the area's rich biodiversity, thin soil, steep terrain, and heavy rains. There has been little or no input from the indigenous people, many of whom use native plants for medicinal purposes. What you can do: Write to the President of Mexico, Carlos Salinas de Gortari, Palacio Nacional, Los Pinos, Mexico, D.F. Urge him to put the project on hold until environmental and cultural concerns have been adequately addressed. Also, consider going on trip #93711.



LEADER FAMILY PROFILE

THE HILDEBRANDS

Kern Hildebrand's family has a long, distinguished history with the Sierra Club and the Outing Program. In 1938 his father Milton led the first Sierra Club Burro Trip—a loop starting and ending in Big Meadow in the Sierra. He led those trips for many years and also led raft trips in the late 1960s. He learned his love of nature from his father Joel, who was the Sierra Club's president from 1937–1940, leading the way in the campaign for Kings Canyon National Park. Kern's leadership began in 1981 with a backpack trip in Alaska. He has continued to lead in Alaska, as well as in the Lower 48, Asia, Europe, Africa, and Latin America. He has found himself leading backpack, river-raft, kayak and, highlight trips, and a variety of formats on international outings. Kern says his father taught him well and provided an excellent leadership example. He is passing on the tradition to his son Derek, age 20. With luck, we'll see a fourth generation of Hildebrands contributing leadership skills to the Sierra Club. Join Kern this year on Alaska trip #93105.

KEVIN SCHIFFER, SMITHA HILL

Canoeing and Hiking in Brazil's Rainforests—June 22–28. From Manaus, we'll travel southwest by boat, Land Rover, and canoe to Careiro, then canoe quietly across Lake Jamu to a base camp deep in a verdant rainforest. We'll take special excursions into the forest at night to observe the flora and fauna, visit an Indian village, and enjoy treks with our Indian guides. This trip to the Amazon is a unique opportunity to learn about a rainforest ecosystem and the people who make it their home. *Leader: J. Victor Monke.* Price: \$1,715 (12–15) / \$1,945 (11 or fewer); Dep: \$200. [93790]

River Rafting and Rainforest Adventure, Costa Rica—October 19–28. See description for trip #93730 above. *Leader: Blaine LeCheminant.* Price:

\$2,150 (12–15) / \$2,415 (11 or fewer); Dep: \$200. [93835]

Picturing Costa Rica—November 7–16. Costa Rica's rich biological diversity, environmental awareness, and vibrant culture make it a photographer's dream. We'll enjoy a lowland tropical forest in Corcovado Park; Poas Park with its active volcano; archaeological sites in Guayabo National Monument; and over 500 species of birds in Braulio Carrillo National Park. With our experienced guides, we'll work to improve our photographic skills and expression. Non-photographers are also welcome. *Leader: Dolph Amster.* Price: \$2,140 (12–15) / \$2,405 (11 or fewer); Dep: \$200. [93840]

Ecuador: Galápagos Islands and the Amazon Rainforest—Decem-

ber 19, 1993–January 1, 1994.

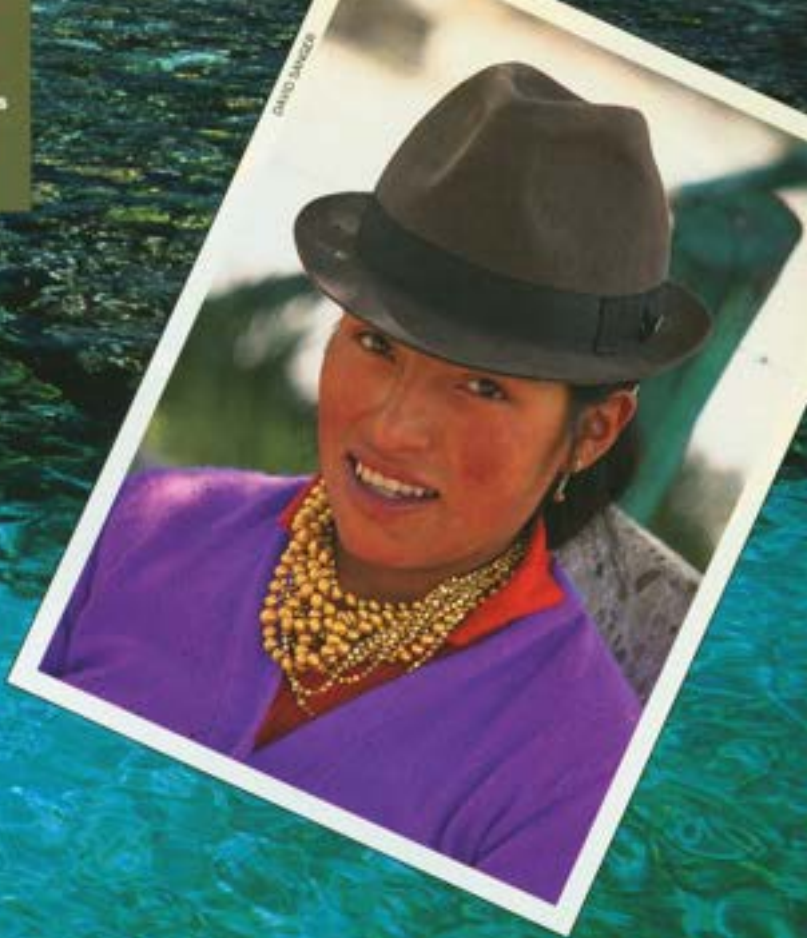
See description for trip #93775 above. *Leader: Mary O'Connor.* Price: \$3,550 (7–9) / \$3,930 (6 or fewer); Dep: \$200. [94500]

Holidays in Belize, Central America—December 20–28. Using a rustic lodge as our base, we'll explore Belize's lush interior, touring limestone caves and Mayan ruins, and rafting a gentle jungle river. A short plane flight to Flores, Guatemala, enables us to spend a full day at the magnificent Mayan ruins of Tikal. Then we'll move to the Caribbean coast and a palm-fringed island adjacent to a barrier reef. We'll stay at a simple guesthouse on the beach, snorkel in crystal-clear water, and feast on fresh seafood. *Leader: Sailee Lotz.* Price: \$2,055 (12–15) / \$2,320 (11 or fewer); Dep: \$200. [93850]

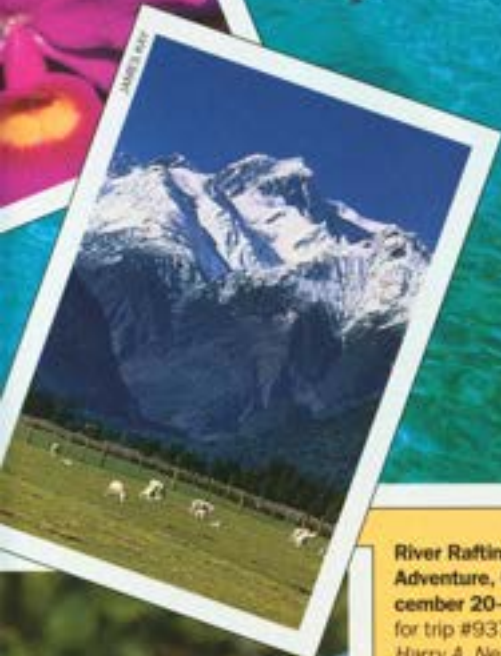
KEVIN SCHIFFER, SMITHA HILL



Snorkeling in Belize; clockwise from far right: Quechua-speaking woman in Ecuador; mountains and sheep in New Zealand; swallow-tailed gulls preening, Galápagos, Ecuador; python (reprinted from *Mother Earth*); cattleya skinneri orchid.



FOR AN
EXPLANATION
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SEE PAGE
137.



River Rafting and Rainforest Adventure, Costa Rica—December 20–29. See description for trip #93730 above. *Leader:* Harry A. Neal III. *Price:* \$2,150 (12–15) / \$2,415 (11 or fewer); *Dep:* \$200. [93855]

Patagonia Trek, Chile—February 19–March 5, 1994. Experience the magnificence of Patagonia on this easy-to-moderate trek in Torres del Paine National Park. Condors will glide effortlessly above us as we hike at elevations between 3,000 and 4,000 feet and see the dramatic silhouette of the Torres (towers) and Cuernos (horns) del Paine against the open sky. The area is home to over 100 species of birds, 25 mammals, and more than 200 different plants. Cultural exchange will be a highlight in Puerto Natales, where we'll stay

in private homes. *Leader:* John Garcia. *Price:* \$2,585 (12–15) / \$2,865 (11 or fewer); *Dep:* \$200. [94515].

PACIFIC BASIN

Exploring New Zealand—February 6–26, 1994. New Zealand offers the visitor many outdoor activities. Beginning in Auckland, we will explore the country's attractions by dayhiking and sightseeing our way to Christchurch. We will see steaming volcanoes, erupting geysers, bubbling hot mud pools, a Maori village, glow-worm grottoes, the Kauri forest, alpine valleys, Milford Sound, snowcapped mountains, and glistening glaciers that extend down into subtropical rainforest. *Leader:* Ray Simpson. *Price:* \$3,015 (9–11) / \$3,300 (8 or fewer); *Dep:* \$200. [94520]

RUSSIA

Lake Baikal Service Trip, Southern Siberia—July 6–25. Lake Baikal, the world's deepest and most biologically significant freshwater lake, enjoys some protection from its national parks. But these beautiful parks need trail and campsite restoration. We'll work ten days and on alternate days hike, sightsee, visit archaeological sites, and boat on the lake. Russian environmentalists and guides will be working with us to protect this jewel they regard as both sacred and threatened. *Leader:* Cal French. *Price:* \$1,705 (12–15) / \$1,845 (11 or fewer); *Dep:* \$200. [93800]

Note: For more trips to Russia, see Asia #93765 and Europe #93820.



Doorways in Chaco Canyon ruins, New Mexico; above left, Mt. Hood, Oregon; above right, Yosemite sunset; left, woman on service trip in Arizona; right, working in Washakie Wilderness, Wyoming.

Service

Energetic and enthusiastic participants can do something positive for the environment while enjoying a backcountry outing. We build and maintain trails, repair meadows, clean up debris, and help archaeologists, among other worthwhile activities. * On most service trips, half the days are left free to enjoy the wilderness. Work experience is not necessary on any of the trips; we will train you. * Service trips are noted for their delicious and filling meals. Most trip staffs include a cook. * Trip fees are low because the program is subsidized by the National Outing Committee and tax-deductible donations. For information on how you can make a donation to the program, see page 124. * All service trips should be considered moderately strenuous unless indicated otherwise.

Empire Ranch Archaeology, Cienega Resource Conservation Area, Arizona—February 14–20. Come to this 52,000-acre, 19th-century ranch in the Sonoran Desert. We'll do restoration work, search for evidence of Paleo-Indian occupants, and still have time for side trips. Leader: Jerry Meyer. Price: \$250; Dep: \$50. [93077]

Alder Creek Trail Maintenance, Four Peaks Wilderness, Arizona—March 7–14. A neglected trail providing access to a beautiful and diverse desert setting needs our attention. You'll have every other day off to explore, relax, and enjoy the Arizona spring. Leader: Vance Green. Price: \$160; Dep: \$50. [93078]

Trail Construction, Buffalo River, Arkansas—March 21–27. From our base camp we will continue work on a new trail on the Upper Buffalo River. Expect spring flowers, fine scenery, cool nights, and mild days. No experience necessary. Leader: Max Bonecutter. Price: \$215; Dep: \$50. [93079]

Secret Canyon Trail, Sedona, Arizona—March 27–April 4. Work amid redrock canyons, forested mountains, desert bloom. We will help maintain, align, and construct a historic creek canyon trail, bringing it into environmental compliance. Leaders: Jack Hershey and Judith Harper. Price: \$220; Dep: \$50. [93080]



BOB THORNE

Trail Construction, Buffalo River, Arkansas—March 28–April 3. See description for trip #93079 above. Leader: W. E. "Bill" Riecken, Jr. Price: \$215; Dep: \$50. [93081]

Big Sur, Ventana Wilderness, California—April 2–10. We will work to clear dense chaparral from the Black Cone Trail. Our camp high above the Big Sur coast offers spectacular ridge-line views and many dayhike destinations. Leader: Maura Eagan. Price: \$245; Dep: \$50. [93082]

Arizona Trail, Saguaro Monument, Arizona—April 3–10. Join us for rewarding trail work and

challenging hikes in the high desert mountains east of Tucson. You can expect warm days and cool starry nights. Enjoy sleeping to the howling of coyote. Leader: Wil Passow. Price: \$175; Dep: \$50. [93083]

Escalante Endeavor, Glen Canyon Recreation Area, Utah—April 4–10. Experience southern Utah's scenic Escalante Canyon while restoring areas that were damaged by recently removed grazing animals. Our leisure time will be spent hiking between work sites. For experienced backpackers only. Leader: Cathy Underwood. Price: \$285; Dep: \$50. [93084]

Santa Cruz Island Preserve, California—April 5–12. Enjoy spring on this beautiful Nature Conservancy island. We'll build and maintain a nature trail, work on a historic ranch, and explore the island. Leader: Richard Weinapple. Cook: Laurie-Ann Barbour. Price: \$325; Dep: \$50. [93085]

Saddle Mountain Wilderness, North Kaibab Forest, Arizona—April 5–14. After five days building a portion of the Arizona Trail on the North Rim, we'll hoist our backpacks for a strenuous five-day adventure in the western Grand Canyon. Leader: Deborah Northcutt. Cook: Jasmine Star. Price: \$325; Dep: \$50. [93301]

Galiuro Wilderness, Galiuro Mountains, Arizona—April 24–May 1. Apache Indians, goldminers, and outlaws made the rugged and remote Galiuro Wilderness their home. From our base camp we will alternate trail work with relaxing dayhikes in this diverse area. Leader: John Van Ness. Price: \$225; Dep: \$50. [93086]

Snowbird, Slickrock, and Joyce Kilmer Trail Work, North Carolina—April 24–May 1. From base camp we'll improve trails at Joyce Kilmer and Slickrock. Backpack crews will build a walking bridge and develop trails at Snowbird. Expect wildflowers, huge trees, and panoramic views. Leader: Vivian Spielbichler. Price: \$225; Dep: \$50. [93087]

South Rim, Grand Canyon;
right, lupines; far right, fishing
break on Wyoming Trail,
Colorado service trip.



KEVIN BUTLER

Abbey's Wall, Winter Camp, Arches Park, Utah—April 25–May 1. "Cattle out, indigenous species in" is our challenge. Stringing three-strand fence requires week-long endurance and a wicked sense of humor. Packer support means hard work without hardship. Leader: Susan Estes. Price: \$250; Dep: \$50. [93088]

Arches Compleat, Arches Park, Utah—April 25–May 1. Unveiled from winter snow, this queen of the Colorado Plateau needs trails "caimed," fences repaired, and exotic vegetation removed. Our third consecutive visit has rewards for all levels. Leader: Jeff Scoryers. Price: \$260; Dep: \$50. [93089]

Chaco Canyon Archaeology I, Chaco Culture Historical Park, New Mexico—May 2–8. Conservation of archaeological sites and natural resources is our goal in an ambitious project to install fence along the park's new boundary. There will be other projects as well. Leader: Barbara Gooch. Price: \$270; Dep: \$50. [93302]

Doubleheader: Canyonlands Park and Dead Horse Point State Park, Utah—May 2–8. Habitat to regal peregrines and bighorns, two mesa-top parks cradled between the Green and Colorado rivers need springtime trail-building efforts. High spirits, good attitude mandatory; experience welcome. Leader: Susan Estes. Price: \$245; Dep: \$50. [93090]

North Rim Trail Part IV, North Kaibab Forest, Arizona—May 10–19. On this strenuous trip, we continue work on a new trail that overlooks Tapeats Amphitheater in the Grand Canyon.

Afterward, we'll hike down to Sowats Canyon and Mountain Sheep Springs. **Leader:** Tim Wernette. **Price:** \$325; **Dep:** \$50. [93091]

Gila Wilderness, New Mexico—May 15–22. Do trail work in our oldest wilderness area. On leisure days, hike through scenic canyons to historic ruins. Expect warm days, flowers, and starry nights at our 6,000-foot camp. **Leader:** Wil Passow. **Price:** \$185; **Dep:** \$50. [93092]

West Rim and Telephone Canyon, Zion Park, Utah—May 16–22. Join us as we relocate two sections of trail, put in water bars, and do fire rehab. There will be time to explore this land of the Anasazi and Paiute. **Leaders:**

Chaco culture, located northwest of Albuquerque, participants will help balance the needs of archaeological stabilization with those of the visiting public. **Leader:** Ann Harding. **Price:** \$260; **Dep:** \$50. [93304]

Blue Range Trail Project, Apache Forest, Arizona—June 12–19. We are rebuilding a trail in a lush canyon east of 9,000-foot Hannagan Meadows. There will be time to explore and photograph the Blue River area's rugged canyons and ridges. **Leader:** Rod Ricker. **Price:** \$195; **Dep:** \$50. [93305]

Paria Canyon Archaeology, Arizona—June 19–26. This trip will document early Anasazi rock art in the enchanting Paria Canyon

Ukonom Lake Trail Maintenance, Marble Mountain Wilderness, California—June 20–30. We'll hike amid magnificent ancient forests, wildflowers, and trout-filled lakes to Ukonom Lake. We'll rebuild trail, spend free days hiking and swimming, and enjoy singing and storytelling around the campfire. **Leader:** John Sherman. **Cook:** Kathryn Hannay. **Price:** \$260; **Dep:** \$50. [93309]

La Verkin Creek Trail, Zion Park, Utah—June 23–30. In spectacular canyon country near Kolob Arch, we'll clean up an old cattle trail. Solitude, rock scrambling, and watching for mountain lions, falcons, spotted owls, and eagles will fill our days off. **Leader:** Mary Grisco. **Cook:** Paul Laverty. **Price:** \$260; **Dep:** \$50. [93310]

Acadia Park, Maine—June 27–July 3. Join us for work and play in this coastal park. We'll work on trails and carriage roads, and explore Mt. Desert Island by bicycle, foot, and canoe on free days. **Leader:** Edith Schell. **Price:** \$195; **Dep:** \$50. [93311]

Wind Rivers West Side, Bridger Wilderness, Wyoming—July 1–11. We'll walk into the Bridger Wilderness, where peaks, lakes, and fly-fishing abound. On work days we'll construct and repair sections of trail. **Leaders:** Eric Bowman. **Cook:** Virginia Scott-Bowman. **Price:** \$260; **Dep:** \$50. [93312]

Backcountry Site Rehabilitation, White Mountain Forest, New Hampshire—July 4–10. Join us on another collaboration with White Mountain Forest. We'll rehabilitate backcountry sites in

the southern part of the forest; the exact locations have not been chosen. **Leader:** Laurie J. Buck. **Price:** \$270; **Dep:** \$50. [93313]

Anderson Lodge Restoration, Washakie Wilderness, Shoshone Forest, Wyoming—July 6–16. Working with an architect, we'll help restore a century-old log cabin. Lush meadows and 12,000-foot peaks offer dayhike opportunities. Carpentry skills are helpful. **Leader:** Bob Wolf. **Cook:** Conrad Smith. **Price:** \$260; **Dep:** \$50. [93314]

Lizard Head Wilderness, Colorado—July 7–17. Dutch-oven cooking will power our work building causeways over soggy trail. We have a strenuous nine-mile backpack to our 12,000-foot base camp. On free days we'll climb a nearby "fourteener." **Leader:** Doug Pilcher. **Cook:** Karen Hunt. **Price:** \$260; **Dep:** \$50. [93315]

Women's Trip, Russian Wilderness, Klamath Forest, California—July 7–17. The trail work will be strenuous, but this trip is suitable for beginning backpackers. It's an easy hike to our first camp and our project, then on to Russian Lake. **Leaders:** Dick Toaspern and Maura Eagan. **Price:** \$260; **Dep:** \$50. [93316]

Pike Forest, Colorado—July 8–18. Great views await this mid-summer trail maintenance crew. We'll camp in the Rockies at 10,000 feet. On free days we'll bag 14,000-foot peaks or relax amid grand scenery. **Leader:** Jan Nichols. **Price:** \$260; **Dep:** \$50. [93317]



Linda Takala and Paul Hoernke. **Price:** \$225; **Dep:** \$50. [93093]

Bryce Canyon Park, Utah—May 29–June 5. Enjoy the naturally sculpted beauty of hoodoos and wildlife-abundant redrock canyons. Alternate fence-building with scenic hikes as we protect the park from damage caused by free-roaming cattle. **Leader:** John Van Ness. **Price:** \$250; **Dep:** \$50. [93094]

The Arizona Trail, Walnut Canyon, Arizona—June 5–12. From our 7,000-foot camp, we will combine trail work with exploring Neolithic Sinagua ruins in nearby Wupatki and Walnut Canyon monuments. Expect warm days, cool nights. **Leader:** Judith Harper. **Price:** \$210; **Dep:** \$50. [93303]

Chaco Canyon Archaeology II, Chaco Culture Historical Park, New Mexico—June 5–12. On this popular trip to the center of

Wilderness Area. The work is demanding and the hours long, but rewards are many. **Leader:** Marietta Tretter. **Price:** \$325; **Dep:** \$50. [93306]

Allagash Wilderness Waterway Restoration, Maine—June 19–27. We will assist waterway staff in erosion control and site restoration while traveling by canoe in this remote northern wilderness. There will be fishing, swimming, and wildlife. Some canoeing experience required. **Leader:** Mike Kaiser. **Price:** \$360; **Dep:** \$50. [93307]

High Falls Trail Relocation, Monongahela Forest, West Virginia—June 20–26. We re-route the trail away from a new logging road and off a working railroad, as well as improve grades. Layover at spectacular High Falls of the Cheat to explore and relax. **Leader:** Jim Sconyers. **Price:** \$190; **Dep:** \$50. [93308]

CONSERVATION CHALLENGE

Northern Forests Threatened by Development

The Northern Forests of New England and New York face continuing pressure from the real estate and forest products industries. Real estate developers target waterfront lands on remote lakes and free-flowing rivers on which to build new vacation homes. The forest products industry has been attempting to maximize the yield on their lands through questionable practices such as large-scale clear-cutting and the extensive use of herbicides to control the growth of hardwood species. Environmentalists in the northeast are trying to address these two specific problems, as well as the expansion of existing national forest lands. What you can do: To help in this effort, write to the Northern Forest Campaign Desk, Sierra Club, 85 Washington Street, Saratoga Springs, NY 12896. Also consider going on one of our outings to New York and New England. See the Geographic Index on page 132 for information.

Left to right: Zion National Park, Utah; packing gear on service trip in Washakie Wilderness, WY; group working on Arizona Trail; Mt. Hood Wilderness.

LEADER FAMILY PROFILE

THE SITZMANS

Faye and Tom Sitzman have been offering an incredible variety and quantity of trips in the midwestern states since the late 1970s. Faye led her first backpack trip to South Dakota's Black Elk Wilderness in 1978. Tom joined the ranks of Sierra Club leaders a few years later when he assisted Faye on the Club's first voyager canoe family trip on the Missouri River. This trip proved very popular, and after moving to the Mississippi River one year because of a flood on the Missouri, it became known as the Huck Finn Voyager Canoe trip. Faye serves the Club on the National Membership Committee, as treasurer of the Northern Plains Regional Conservation Committee, and as Midwest Subcommittee chair. She was also the first woman chair of the Nebraska Chapter. Both Tom and Faye make themselves available each year to lead second sections of popular trips. Faye is leading ski trip #93425 this year.

Dark Divide and Mount St. Helens, Gifford Pinchot Wilderness, Washington—July 10–20. The giant trees and tiny wildflowers of an old-growth forest provide the setting for our work project. The highlight of our trip is a climb up Mount St. Helens. Leader: Ron Thomas. Cook: Geraldine Turner. Price: \$260; Dep: \$50. [93318]

Timberline Trail Restoration, Mt. Hood Wilderness, Oregon—July 11–17. On our tenth year at Mt. Hood we'll backpack most of the breathtaking and historic, round-the-mountain Timberline Trail and work on innovative restoration projects to help erase the scars of more than a half-century of use. Leader: Rick Zenn. Price: \$320; Dep: \$50. [93319]

Huckleberry Lookout Restoration, Teton Wilderness, Wyoming—July 11–21. Overlooking the Teton Wilderness at 9,600 feet, the historic Huckleberry

Lookout needs people with carpentry and woodworking skills or an interest in learning the trade. Come join us. Leader: Jan Kettle. Cook: Steve Wickenden. Price: \$260; Dep: \$50. [93320]

Granite Lake, Trinity Alps, California—July 13–23. We'll do trail maintenance at 6,000 feet. The work will sometimes be arduous, but a dip in Granite Lake and views of snowcapped peaks will provide the perfect balance. Leader: Pete Petersen. Price: \$260; Dep: \$50. [93323]

Lake Chelan-Sawtooth Wilderness, Wenatchee Forest, Washington—July 14–23. We'll rebuild the Sawtooth Summit Trail near Tuckaway Lake. On rest days, fish in alpine lakes and hike to Oval Peak and the Sawtooth Summit Ridge. We leave via Lake Chelan ferry. Leader: Dennis Grzesinski. Cook: Deborah Northcutt. Price: \$325; Dep: \$50. [93324]

Ruby Mountain Wilderness Trail Repair, Nevada—July 15–25. Meadows and stands of bristlecone pine typify this often-overlooked Nevada wilderness. Join us for trail work, peaks, trout-stocked lakes, a National Scenic Trail and a good time. Leader: David Simon. Price: \$260; Dep: \$50. [93325]

Boundary Waters Canoe Area Trail Maintenance, Minnesota—July 18–24. We'll work from our canoe base camp in Kawishiwi District. Each day we'll paddle on clear lakes to our work site. After work we can swim, fish, or just relax in the beautiful North Woods. Leader: Bill Sheppard. Price: \$320; Dep: \$50. [93326]

Twitchell Lake, Adirondack Park, New York—July 18–24. Help build trail in a less-traveled area of the Lower 48's largest park. Expect hard work, gourmet food, and time in the afternoons for hiking, fishing, swimming, canoe-

ing, or loafing. Leader: Mike Kenahan. Cook: Marcia Leishman. Price: \$210; Dep: \$50. [93327]

Monument Lake, Salmon River Wilderness, California—July 18–28. Help construct a trail from Sandy Ridge to Monument Lake. While camping at 5,800 feet, we'll enjoy satisfying work, savory dutch-oven cooking, hiking,



swimming, fishing, and good company. *Leader: Cindy Miles. Price: \$220; Dep: \$50. [93328]*

Rolling Creek, Lost Creek Wilderness, Colorado—July 22–August 1. Clear streams, high meadows and 12,000-foot peaks surround our base camp and the trails we'll maintain. On free days we can explore peaks, photo-

graph ridges, alpine meadows, and peaks. *Leader: Paula vanHaagen. Cook: Laurie-Ann Barbour. Price: \$260; Dep: \$50. [93330]*

Never Summer Wilderness Plane Wreck Removal, Rocky Mountain Park, Colorado—July 26–August 5. We'll remove pieces of an F-4 jet fighter from 11,500-foot slopes in the isolated Never Summer Wilderness. On days off we can explore this astonish-



ingly beautiful, seldom-traveled area. *Leader: Larry Wheelock. Price: \$260; Dep: \$50. [93331]*

Cottonwood Lakes, Inyo Forest, Sierra—July 27–August 6. Explore this string of cerulean lakes south of Mt. Whitney while we mend meadow portions of trail, working amid granite outcrops and lodgepole pines. *Leader: Steven Hartwell. Cook: Karen Mura. Price: \$260; Dep: \$50. [93332]*

Trail Maintenance, Glacier Peak Wilderness, North Cascades, Washington—July 28–August 6. From Lake Chelan, it's a five-mile, uphill hike to camp at 4,100 feet in the pristine Devore Creek basin. Layover-day trips to Fourth of July Basin offer alpine roaming and scenery. *Leader: Jack Brautigam. Price: \$325; Dep: \$50. [93333]*

Cloud Peak, Bighorn Forest, Wyoming—July 28–August 7. Our trail construction near Misty Moon Lake will help protect a fragile riparian area. We camp above 9,000 feet in a high alpine area offering great fishing, wildlife, wildflowers and panoramas. *Leader: Wally Mah. Cook: Liz Varnhagen. Price: \$260; Dep: \$50. [93334]*

graph wildlife, or relax among wildflowers. *Leader: Bruce Horn. Cook: E. B. Dalton. Price: \$260; Dep: \$50. [93329]*

Miner Basin, Eagle Cap Wilderness, Oregon—July 25–August 4. Help take a trail out of retirement. We'll re-establish two to three miles of trail in Oregon's little-known Little Switzerland. On

Mott Lake Trail, John Muir Wilderness, Sierra—July 29–August 8. Maintain trail on the 10,000-foot Silver Divide. Trout lakes and 13,000-foot peaks beckon on days off. Fish, climb, swim, or just enjoy the splendor of John Muir's "Range of Light." *Leader: Conrad Smith. Price: \$220; Dep: \$50. [93335]*

Ball Lakes, Selkirk Mountains, Panhandle Forest, Idaho—July 31–August 10. Old-growth forests, abundant wildlife, and trout-filled lakes will surround us. Camped at 6,650 feet in the Selkirk Mountains, we'll do trail and vegetation work. *Leader: Peter Littman. Cook: Becky Blythe. Price: \$220; Dep: \$50. [93336]*

Coastal Artistry, Lake Superior Park, Ontario, Canada—August 1–7. Come experience the beauty, artistry, and sheer power of Lake Superior's coast as we assist the Ministry of Natural Resources in developing one of the jewels of the Canadian Park System. *Leader: Conrad Kincock. Price: \$305; Dep: \$50. [93337]*

Enchanted Valley, Olympic Park, Washington—August 2–12. After a two-day hike to our base camp, we help restore the historic Enchanted Valley Chalet and do some trail-brushing. Enjoy wildflowers, wildlife, and wild berries on free days. *Leader: John Sherman. Cook: Janet Sherman. Price: \$250; Dep: \$50. [93338]*

Wind River Range, Popo Agie Wilderness, Bridger-Teton Forest, Wyoming—August 2–12. A 14-mile hike in takes us to our strenuous trail maintenance work above 10,000 feet. We promise hiking, peak-bagging, glaciers, and views of the Continental Divide. *Leader: Cynthia Griffin. Cook: Daniel Brady. Price: \$260; Dep: \$50. [93339]*

Seven Devils Mountains, Hells Canyon Wilderness, Idaho—August 3–13. We happily return

to the mythical Seven Devils overlooking dramatic Snake River Canyon. From our camp in beautiful Six Lakes Basin we'll restore trail, swim, and frolic among craggy peaks. **Leader:** Bill Glenn. **Cook:** Bill Hallagan. **Price:** \$260; **Dep:** \$50. [93342]

Pine Creek, Inyo Forest, Sierra—August 4–10. We'll repair trails near Pine Creek and the Palisade Glaciers in the John Muir Wilderness. A five-mile hike will bring us to our base camp at 9,000 feet. **Leader:** Bill Gibson. **Price:** \$260; **Dep:** \$50. [93343]

Capitol Peak, Maroon Bells-Snowmass Wilderness, Colorado—August 6–16. We'll revegetate two campsites and build waterbars and check-dams. Our campsite at 11,500 feet is at the base of Capitol Peak—close to lakes, high passes, and wildflowers! **Leader:** Kathryn Hannay. **Price:** \$260; **Dep:** \$50. [93344]

Pemigewasset Wilderness, White Mountain Forest, New Hampshire—August 7–13. We'll improve drainage and do other trail work near the Appalachian Mountain Club's Camp Dodge. On free days, we can climb near-by 5,000-foot peaks or swim in the river. **Leader:** Steve Lachman. **Price:** \$260; **Dep:** \$50. [93345]

Flattop Mountain, Glacier Park, Montana—August 9–19. Backpack and work in subalpine meadows on Flattop Mountain near the Continental Divide. The trail work includes regrading trails and improving drainage, with time for dayhiking and peak-bagging. **Leader:** Jan Moraczewski. **Cook:** Mark Easter. **Price:** \$325; **Dep:** \$50. [93346]

Targhee Teton, Jeddiah Smith Wilderness, Wyoming—August 10–20. Enjoy the beautiful high country near the western boundary of Grand Teton Park. Our work will focus on trail reconstruction, with free time open for exploration or simple relaxation. **Leader:** Gary Anderson. **Cook:** John Uzupis. **Price:** \$260; **Dep:** \$50. [93347]

Wyoming Trail, Zirkel Wilderness, Colorado—August 10–20. Continuing last year's work, we'll redevelop trail and restore a section of lakeshore along the Continental Divide. A six-mile backpack takes us to an area dotted

with lakes, meadows, and peaks. **Leader:** Homer Rudolf. **Cook:** Susan Carrell. **Price:** \$260; **Dep:** \$50. [93348]

Tuolumne Meadows, Yosemite Park, Sierra—August 11–22. Based in a favorite John Muir spot within reach of beautiful scenery, we will restore some very popular trail. Lake Baikal officials will join us, so Russian speakers are especially welcome. **Leader:** Tony Lambe. **Cook:** David Zubkoff. **Price:** \$325; **Dep:** \$50. [93349]

Conejos River Headwaters, South San Juan Wilderness, Colorado—August 14–21. Camp and worksites will be high (over 11,000 feet), the trail work demanding, and the alpine surroundings glorious. Nature study will be a special feature; the leader is a naturalist. **Leader:** Jim McPherson. **Cook:** John Harbison. **Price:** \$260; **Dep:** \$50. [93350]

Salmon River Archaeology, Idaho—August 14–21. From our primitive campsite by the lower Salmon River, we will assist BLM archaeologists in surveying, inventorying, and mapping prehistoric artifacts and sites, as well as 19th-century mining structures. **Leader:** Ann Harding. **Price:** \$295; **Dep:** \$50. [93351]

Big Fisher Lake, Selkirk Mountains, Panhandle Forest, Idaho—August 14–24. Be prepared for high-energy trail maintenance and camp rehab. Five mountain lakes within pleasant hiking distance from camp provide trout-fishing and spectacular scenery. Wildlife and wildflowers abound. **Leader:** Jack Spalding. **Cook:** C. E. Vollum. **Price:** \$220; **Dep:** \$50. [93352]

Ice Mountain Preserve, Hampshire County, West Virginia—August 15–20. New trail construction will open this Nature Conservancy tract to public access. Accommodations are in a rustic lodge with sketching, swimming, canoeing, and hiking on lay-over days. **Leader:** Sarah Stout. **Price:** \$230; **Dep:** \$50. [93353]

Gulf of Slides Trail, White Mountain Forest, New Hampshire—August 15–21. We'll clear stream-crossings and brush this secluded ravine trail two miles south of Mt. Washington. On free days we climb nearby 5,000-foot



Mt. Rainier; above, pancake breakfast in Olympic Park, Washington; right, working in Routt National Forest, Colorado.

ALL SERVICE TRIPS SHOULD BE CONSIDERED MODERATELY STRENUOUS UNLESS OTHERWISE NOTED IN THE TRIP DESCRIPTION.



peaks or swim in the river. *Leader: Michael Blaschke. Price: \$190; Dep: \$50. [93354]*

Mount Rainier Park, Washington—August 16–26. From a road-head base camp, we'll maintain trails in this magnificent park. On free days we can explore glaciers, lakes, waterfalls, flowering alpine meadows, and rainforest. *Leader: Chuck Mazgaj. Price: \$260; Dep: \$50. [93355]*

Isle Royale Park Trail Maintenance, Lake Superior, Michigan—August 31–September 10. Lie under the stars with the aurora borealis dancing above and wolf howls in distant hills—some of the many delights after a hard day's work in the wild solitude of Isle Royale. *Leader: Jim Balsitis. Price: \$385; Dep: \$50. [93356]*

Haystack Mountain, Maroon Bells-Snowmass Wilderness, Colorado—August 18–28. To connect two existing trails, we'll work on switchbacks, tread, drainage, and signs amid wildflowers and 13,000-foot peaks near Aspen. On days off, you can bag peaks, fish, or relax. *Leader: Ralph Keating. Cook: Terry Limbert. Price: \$260; Dep: \$50. [93357]*

Crater Lake, Oregon—August 21–29. Crater Lake is a volcanic wonder and Oregon's only national park. Join us in revegetating fragile and abused meadows. Days off include a boat trip to Wizard Island and more! *Leader: Jeff Wasserman. Cook: Paul Laverty. Price: \$260; Dep: \$50. [93358]*

Virgin River Rim Trail, Dixie Forest, Utah—August 22–28. Join us in developing and clearing a

new section of this 45-mile hiking trail on the rim of the Virgin River Canyon—a spectacular area of subalpine forests, with vistas of Zion below. *Leaders: Pam and Jerry Meyer. Price: \$245; Dep: \$50. [93359]*

High Uintas, Wasatch-Cache Forest, Utah—August 23–September 2. From our 10,000-foot base camp in this striking east-west range, we will continue restoring trail. On free days we can explore alpine lakes and 13,000-foot peaks. *Leader: Les Atkins. Cook: Roy Cogle. Price: \$260; Dep: \$50. [93360]*

Kintla Lake, Glacier Park, Montana—August 23–September 2. We'll rebuild walkways and bridges near our isolated car camp at Kintla Lake, near Canada. On off days there'll be canoeing and backpacking. Enjoy vegetarian haute cuisine. *Leader: Jason Star. Cook: Jasmine Star. Price: \$325; Dep: \$50. [93361]*

Morgenroth Lake Revegetation, Olympic Park, Washington—September 8–17. After hiking through ancient forests we'll base camp and work in the Seven Lakes Basin and replant overused camps. We'll see elk, black bear, huckleberries. Anticipate vegetarian haute cuisine. *Leader: Jason Star. Price: \$265; Dep: \$50. [93362]*

Steens Mountain and the Alford Desert, Oregon—September 8–18. Savor one of the most powerful combinations of wild country in the west. We'll work three days restoring the historic Riddle Ranch, and enjoy the area's rich contrasts and variety. *Leader: John Sherman. Price: \$290; Dep: \$50. [93365]*

DOCTORS WANTED

Some service trips have a doctor on staff. These professionals donate their time and skills for a waiver of the trip fee. They are not required to work on the project, but many do so out of the same concern for wilderness shared by regular participants.

All trip leaders have first-aid training, and the Club provides a first-aid kit. Although our accident record with projects requiring the use of tools has been very good, we try to provide a staff doctor just in case.

If you are a doctor and think you might be interested in this rewarding experience, please write:

DR. BOB MAJORS
3508 Williamsborough Ct., Raleigh, NC 27609

Enclose a self-addressed, stamped envelope for reply.

Baxter State Park Autumn Trail Maintenance, Maine—September 11–19. We'll maintain trails, hike, and canoe in the northern, less-traveled reaches of Baxter Park. This strenuous trip will feature fall colors, mountaintop vistas, and abundant wildlife (moose, loons, osprey, maybe bald eagles). *Leader: Matthew Terrible. Price: \$295; Dep: \$50. [93366]*

Chaco Canyon Archaeology III, Chaco Culture Historical Park, New Mexico—September 12–18. Become part of the Chaco phenomenon. Conservation of cultural and natural resources remain the focus of this arduous trip. Projects vary from trail maintenance to archaeological site identification and preservation. *Leader: Barbara Gooch. Price: \$275; Dep: \$50. [93367]*

North Country Scenic Trail, Michigan—September 12–18. The North Country Trail, extending from the New York/Vermont border to North Dakota, will be the longest continuous trail in the U.S. We'll be working in Michigan's Upper Peninsula. *Leader: Joe Gottler. Price: \$235; Dep: \$50. [93368]*

Chiricahua Wilderness, Coronado Forest, Arizona—September 12–23. Join us for mild-weather trail-maintenance work at moderate elevations in the Chiricahuas—isolated and rugged "islands in the sky," home to coatimundi and trogon. We'll encounter five



ecological zones during our stay. *Leader: Sherri Serna. Price: \$220; Dep: \$50. [93369]*

Hawk Mountain Sanctuary, Kittatinny Ridge, Appalachian Mountains, Pennsylvania—September 19–25. Witness the spectacular fall migration of ospreys, hawks, and kestrels as we perform various tasks for the sanctuary. During free time, you can hike the Appalachian Trail or delight in raptor-watching. *Leader: Betty Couts. Price: \$230; Dep: \$50. [93370]*

Hovenweep: The Tower Ruins, Hovenweep Monument, Colorado—September 19–25. With its ancient Pueblo ruins and primitive, high desert setting, Hovenweep offers a very special park experience. This premier service trip involves maintenance work and more. *Leader: Susan Estes. Price: \$260; Dep: \$50. [93371]*



Autumnal Arches, Arches Park, Utah—September 26–October 2. Enjoy seven days of autumn desert landscape while maintaining trails and removing exotic plants. Difficulty varies from easy to moderately strenuous, with one day off to explore the 6,000-foot setting for Edward Abbey's *Desert Solitaire*. *Leader: Mike Kobar. Price: \$255; Dep: \$50. [93372]*

Chesapeake Bay Archaeology, Maryland—September 27–October 1. Enjoy the Chesapeake Bay area and learn about early colonial life. Our excavation site is St. Mary's City, Maryland's first capital, where our teams will work with archaeologists and students. We will alternate work projects during the week for a complete historical experience. *Leader: Bill Carroll. Price: \$220; Dep: \$50. [93373]*

Grand Gulch Primitive Area, Utah—October 2–9. With pack animal support, we backpack approximately 10 miles into spectacular Grand Gulch, establish primitive base camp (6,000 feet) near Anasazi ruins, and do moderately strenuous trail maintenance work. *Leader: Chuck Buck. Price: \$275; Dep: \$50. [93374]*

Forsythe Wildlife Refuge, Cedar Bonnet Island, New Jersey—October 9–16. This newly acquired land on the Atlantic flyway is now part of the 40,000-acre

SERVICE TRIP DONATIONS

Service trips are one of the most important ways in which the Sierra Club cares for our cherished natural resources.

Dedicated, hard-working volunteers use their vacations to clean up rivers, rebuild trails, restore campsites, remove exotic plants, revegetate meadows, help restore archaeological sites, and take on many other projects that preserve and enhance our public lands.

Service trips are subsidized in part by donations from individuals. Although the trip fees themselves are not tax-deductible, donations to the Service Trips Account of The Sierra Club Foundation are.

The Club's need for financial support for this unique program becomes more critical each year as the demand for trips and the cost of running the program increase. If you can't join us in the wilderness, please join us by offering your financial support. You will have the satisfaction of knowing that fellow Club members are adding their time and energy to your donation to help protect and preserve our natural heritage.

Please send your tax-deductible donations to: Service Trips Account, The Sierra Club Foundation, 220 Sansome St., Suite 1100, San Francisco, CA 94104.

South Turner Mountain, Baxter State Park, Maine; left, moose in Baxter State Park; below, resting in Glacier National Park, Montana; right, working on Arizona Trail, Superstition Wilderness, Arizona.



GIVE
THE GIFT OF
WILDERNESS
WITH A SIERRA
CLUB OUTINGS GIFT
CERTIFICATE.
SEE PAGE
73.

Brigantine Preserve. Working with rangers, we will build boardwalks and observation platforms while tenting on the island. *Leaders: Sally Daly and Irwin Rosman. Price: \$220; Dep: \$50. [93375]*

Archaeology, Swamps, and Beaches, Maryland's Eastern Shore—October 10–16. Enjoy hiking, fall colors, and bird migration as we do clearing work on The Nature Conservancy's Nassawango Creek Preserve and participate in an archaeological dig at Furnace Town Historic Site. *Leader: Otto Spielbichler. Price: \$260; Dep: \$50. [93376]*

Hurricanes and Huguenots, Francis Marion Forest, South Carolina—October 10–16. In September 1989, Hurricane Hugo caused severe damage north of

Charleston. We'll work on a variety of damage restoration projects, both in the forest and in neighboring Cape Romain Wildlife Refuge. *Leader: Ernie Bauer. Price: \$240; Dep: \$50. [93377]*

Red River Gorge Trail Repair, Daniel Boone Forest, Kentucky—October 10–16. This area boasts over 100 natural rock arches, 1,000 wildflower species and 1,000,000 visitors per year. Enjoy ridges, arches, cliffs, caves, and hollows rich in geological and pioneer history. *Leader: Russell Hall. Price: \$235; Dep: \$50. [93378]*

Shawnee Forest, Illinois Trail Maintenance—October 17–23. Ah, . . . working on a wilderness trail beneath the brilliant colors of autumn! During free time, relax near a cool stream or pho-

tograph the hills of southern Illinois. *Leader: Sonia Heidinger. Price: \$235; Dep: \$50. [93379]*

Santa Cruz Island Preserve, California—October 22–29. Enjoy autumn on this island owned by The Nature Conservancy. We'll stay at a historic ranch and work on a yet-to-be-determined project. On free days we'll explore. *Leader: TBA. Price: \$325; Dep: \$50. [93380]*

Santa Rosa Island, Channel Islands Park, California—October 22–29. Do cleanup work on an island paradise off the coast of southern California. A four-hour boat trip takes us to the island, home to wild horses, island fox, and Roosevelt elk. *Leader: Janie Grussing. Cook: Mark Winn. Price: \$325; Dep: \$50. [93381]*

Deadman Mesa Trail #17, Matatzal Wilderness, Tonto Forest, Arizona—October 23–30.

Against a backdrop of canyons and cliffs, we'll reconstruct a neglected trail. Packers will haul food and tools to our 2,700-foot base camp. Enjoy great hiking on days off. *Leader: Jim Vaaler. Price: \$210; Dep: \$50. [93382]*

Ozark Autumn, Buffalo River, Arkansas—October 24–30. We'll build another segment of a new hiking trail along America's first national river. Expect mild days, cool nights, and exquisite Ozark fall colors in these historically rich mountains. *Leader: Joe Gottler. Price: \$235; Dep: \$50. [93383]*

Note: See Alaska, Family, Hawaii, and International for other service outings.



Cross-country skiing, Tahoe National Forest, Sierra; above, cross-country skiers on San Joaquin Ridge, Sierra; right, frozen aspen leaf, Sangre de Cristo Mountains, New Mexico.

WILLIAM WOOD

MARIE LARSON

LEADER FAMILY PROFILE

THE FRENCHES

The Frenches' involvement in Sierra Club Outings began with a private backpack trip to Lake Reflection in the Sierra. Three brothers—Cal, Jim and John French—and Cal's wife, Letty, enjoyed this experience so much, it became a regular family activity. Cal and Letty became involved in the activities and conservation work of the San Geronio chapter and began leading national outings. Their daughters Margaret and Frances grew up camping and eventually found their way into leadership positions in the program as well. Through their involvement in training national outing leaders, Cal and Letty met David Reneau. In 1981, daughter Frances went on a trip with David. One thing led to another and in 1986 David and Frances were married in a wilderness ceremony on a Sierra Club outing. The Frenches and Reneaus continue to serve the program in many ways. Cal and Letty play a very active role in leader training. Cal is leading a service trip to Lake Balkal in Siberia (#93800) this year. David and Frances will take son Patrick along as they introduce the next generation to Club trips on family trip #93071 to Arches Park in Utah, and are also leading an adult backpack trip in the Sierra (#93189).

Ski

Under a carpet of snow, wilderness acquires a beauty and solitude unique to winter. The special sights and sounds of the winter season are yours to enjoy on a cross-country ski excursion with the Sierra Club. * On some trips participants stay in a central location and take day trips; on others you will ski from place to place, either staying in rustic cabins or snow-camping. * Trips vary in difficulty from those suitable for beginners to those requiring some ski-touring experience.



High Sierra Skiing, Tahoe Forest, Sierra—January 31–February 5. Take Nordic ski lessons and tours at the Sierra Club's

own Clair Tappaan Lodge near Donner Summit—a wonderful opportunity to develop or improve such skiing skills as diagonal stride, Telemarking, ski skating, and other techniques in an area of heavy snowfall. You'll also enjoy warm accommodations, camaraderie with lodge guests, good food, a hot tub, and other lodge amenities. Your trip coordinator is a certified ski instructor. *Trip Coordinator: Jeff Hartley.* Price: \$340; Dep: \$50. [93423]

Wilderness Cross-Country Skiing in Copper Harbor, Michigan—January 31–February 6. Ski the Midwest's finest—the hills and woodlands of the Keweenaw Peninsula on Lake Superior, where the average annual snowfall is

about 250 inches. Listen to the quiet of nature as you glide through the Keweenaw's pristine wilderness in this remote winter wonderland. No need to drive to the ungroomed trails—they're right outside the doors of our rustic cabins. *Leader: Donna Small.* Price: \$600; Dep: \$100. [93424]

Superior Ski Trails, Boundary Waters Canoe Area Wilderness, Minnesota—February 8–12. Escape to the heart of the North Woods snow country on groomed and tracked trails that wander quietly through pine and birch forests, between frozen lakes, then back to cozy cabins and home cooking. Ski in the gentle glow of lanterns, listen for distant wolf music, and relax in the sauna.

Additional fun includes snowshoeing, ice-skating, and broomball. For intermediate-level skiers. *Leader: Faye Sitzman.* Price: \$600; Dep: \$100. [93425]

Spring Skiing in the Sierra—April 11–16. Cross-country skiing at its best. Corn snow, Telemarking, Nordic downhill, backcountry—you name it! It's all here at the Sierra Club's Clair Tappaan Lodge near Donner Pass, where the snowfall average is the highest in the Sierra Nevada. There will be daily lessons, and tours to Castle Peak, Crow's Nest, German Ridge led by a certified instructor. Great vittles, warm accommodations, and hot tub. *Leader: Herb Holden.* Price: \$340; Dep: \$50. [93095]

Sierra Club Books

This catalog features selected photographs from two recent Sierra Club publications: *Mother Earth: Through the Eyes of Women Photographers and Writers*, edited by Judith Boice, and *Sierra Club Alaska Postcard Collection*, a portfolio by Art Wolfe. To order the publications featured in this catalog, or to order a free *Mail-Order Service Guide* listing Sierra Club books, calendars and logo items, please call or send in this form. (Be sure to mention this ad for a 10% discount.)

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Cataract Canyon, Colorado River, Utah; above left, palm leaves, Florida; below left, young rafter, Salmon River, Idaho; far right, sunset over Hells Canyon, Idaho.



Water

Whether thrilling to the rapids of the Colorado or paddling through a tranquil mangrove thicket in the Okefenokee, traveling by water offers a very special way to explore the wilderness. You become part of the river, going where it goes, visiting places you can't get to any other way. Out of your canoe, kayak, or raft, there are usually opportunities for side hikes or swimming. * This year, with the reintroduction of our whitewater rafting trips, our program is more diverse than ever, offering something for everyone. Trips are scheduled throughout the year in many parts of the country, and accommodate a wide range of ability.

CANOE

Canoe trips are graded as follows: **Grade A**—No canoeing experience required. **Grade B**—Some canoeing experience required. **Grade C**—Canoeing experience on moving water required. **Grade D**—Canoeing experience on whitewater required.

Everglades Park, Florida—February 21–26. We camp at the southern tip of the park, a threatened subtropical wilderness. Daily canoe explorations take us through mangrove and buttonwood, freshwater ponds, brackish water, open coastal prairies, and saltwater marshes—home to rare plants, birds, and animals. This leisure trip is for competent canoeists who enjoy birding, animal-watching, and photography. Canoe rental not included in trip fee. (Grade B) *Leader: Otto Spielbichler. Price: \$290; Dep: \$50. [93096]*

Canoeing Okefenokee Swamp, Georgia—March 28–April 2. From base camps on the east and west edges of the swamp, we will canoe various sections of the Okefenokee. We'll explore coastal prairies and cypress forests, habitat for birds, mammals, and reptiles (Such as Pogo and friends!). This trip is for canoeists of all ages who enjoy birding, animal-watching, and photography. Canoe rental not included in trip fee. (Grade B) *Leader: Vivian Spielbichler. Price: \$310; Dep: \$50. [93097]*

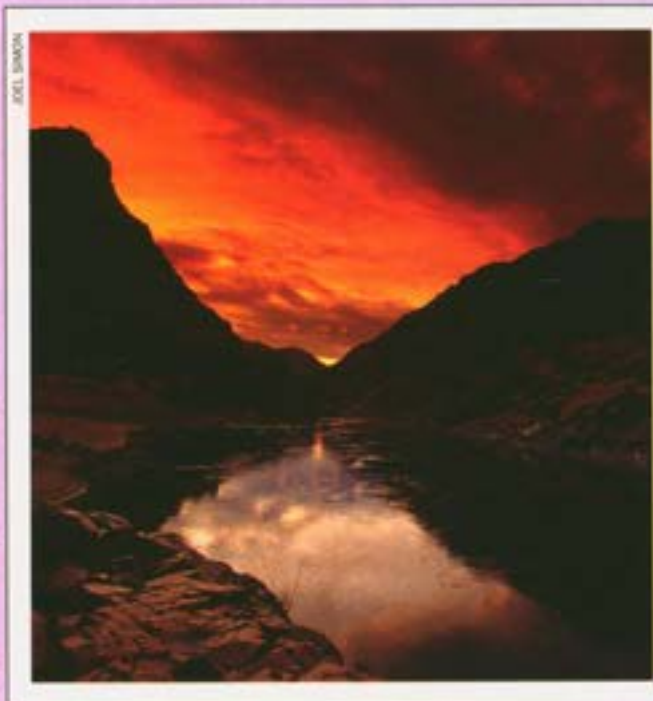
Paddling and Hiking the Pine Barrens, Wharton Forest, New Jersey—May 16–22. The Wharton State Forest in south-central New Jersey encompasses only part of the Pine Barrens, but canoeing two of its rivers and hiking the Batona Trail will enable us to absorb the area's unique environment. We'll camp in remote sites not accessible by car, while remaining close to metropolitan areas. Canoe rental not included in trip fee. (Grade B) *Leaders: Sally Daly and Irwin Rosman. Price: \$295; Dep: \$50. [93386]*

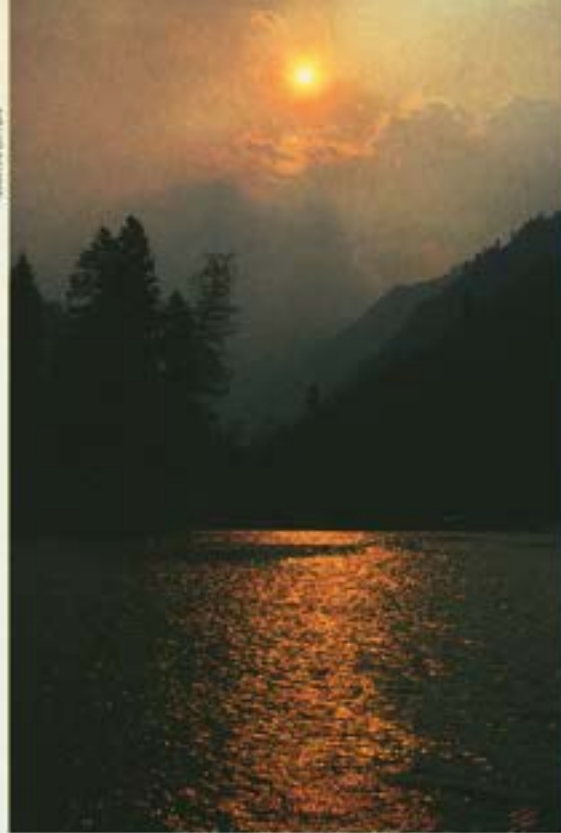
Spring Fever, Boundary Waters Canoe Area Wilderness, Minnesota-Ontario Border—May 23–29. Paddle and portage in the North Woods during peak fishing season. We won't see many people as we explore some of the Boundary Waters' most remote lakes. On layover days search for Indian pictographs, view dramatic waterfalls, or hook into northern pike and walleye. Enjoy the end of spring in the beautiful North Woods. Canoe rental not included in trip fee. (Grade B) *Leader: Joanne Broady. Price: \$535; Dep: \$100. [93098]*

West Grand Lakes, Maine—June 27–July 3. Come for the joy of paddling pristine lakes and streams, the call of loons at night, and new friends around the campfire. On this leisurely-paced trip, we will cover about 55 miles (with one short portage), and have one layover day to explore. The possibility of strong winds requires good conditioning and canoeing experience. Canoe rental not included in trip fee. (Grade B) *Leader: Jo Claghorn. Price: \$400; Dep: \$50. [93387]*

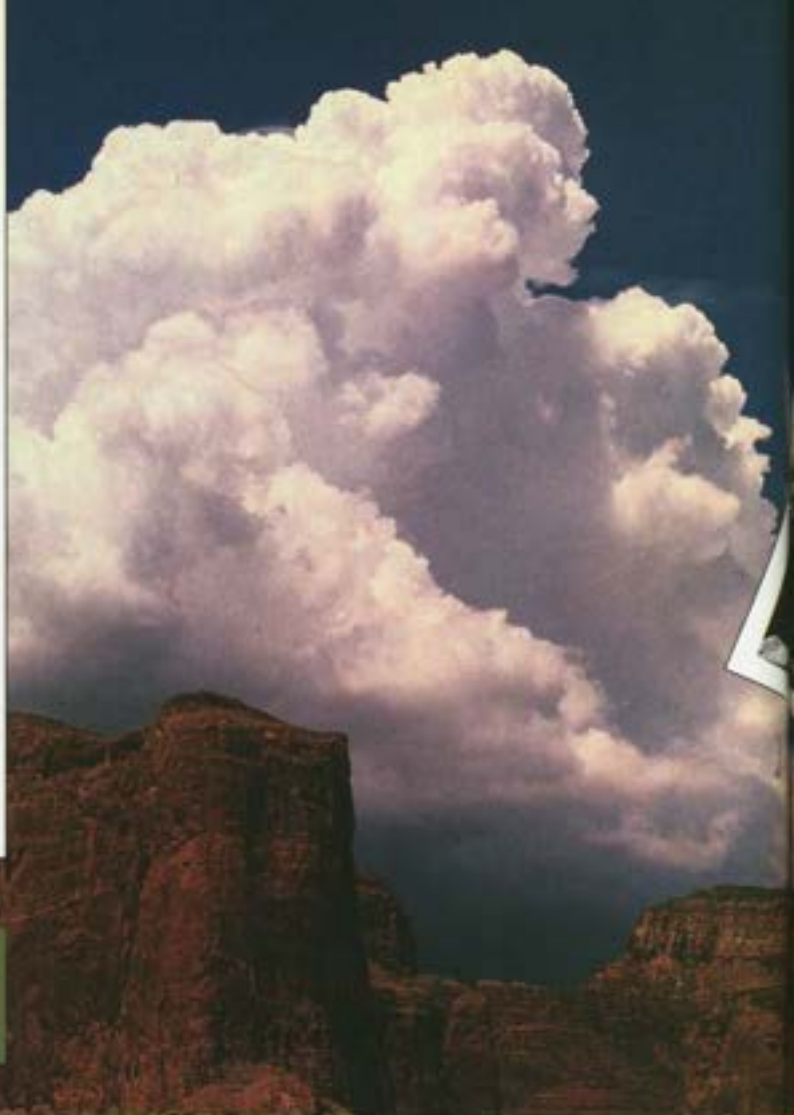
Off the Beaten Path, Boundary Waters Canoe Area Wilderness, Minnesota—July 8–16. Some extra effort and a few longer portages will take us into the least-visited areas of this northern wilderness. A layover day or two will provide time for relaxation, picking blueberries, and fishing. Listen to the loons as we paddle ancient routes. Canoe rental not included in trip fee. (Grade B) *Leader: Sharon Kaufman. Price: \$635; Dep: \$100. [93388]*

Isle Royale Park, Michigan—August 29–September 4. Explore the bays, inlets, and islands of this wilderness archipelago. We'll paddle protected shores and inland lakes, averaging two portages and 12 miles per day. In early fall, a time of moderate air and water temperatures, we hope to avoid crowds and insects. Presentations by park staff are planned. Canoe rental not included in trip fee. (Grade B) *Leader: Larry Ten Pas. Price: \$545; Dep: \$100. [93389]*





Grand Canyon view from Upper Colorado, Arizona; above, Salmon River sunset, Idaho; above right, petroglyphs along the Salmon River; below right, two people in inflatable kayak, Salmon River.



CONSERVATION CHALLENGE

Atlantic Coastal Wetlands— Ecosystems in Peril

From the Bay of Fundy to the Everglades, Atlantic coastal wetlands play a vital role, serving as erosion control, flood control, nurseries for fish and shellfish, and pollution filters. Coastal wetlands are among the most biologically productive lands on earth, supporting a wide variety of aquatic life. Yet these hard-working ecosystems continue to be drained, filled, mined, paved, eroded, and degraded, their integrity threatened by overwhelming pressures and special interests—including agriculture, road-building, housing developments, golf courses, and the timber industry. The often-proposed alternative of "manmade" wetlands has not proven to be a viable option.

We must emphasize protection of existing wetlands and restoration of damaged wetlands. What you can do: Write to your U.S. senators and representatives. Ask them to support legislation to change federal policies that subsidize development; reform the federal Clean Water Act to encourage wetland restoration; expand the regulatory program and incorporate wetlands protection into watershed management; expand incentives and technical assistance for private landowners to protect and restore wetlands; and to find compatible uses.

Check the Geographical Index on pages 132 to 135 for coastal Atlantic outings.

Boundary Waters Canoe Area Fall Color Paddle and Portage, Minnesota—September 19–25.

Come to the North Woods in early fall to enjoy brilliant leaves and the yodels of loons. Our tour takes us across wilderness lakes, home to walleye, bass, and northern pike. We'll search along the rocky shores for ancient pictographs; one layover day is planned. Canoe rental not included in trip fee. (Grade B) Leader: Bill Sheppard. Price: \$535; Dep: \$100. [93390]

Ozark Fall Float, Buffalo River, Arkansas—October 17–23.

Float like a fallen leaf over the clear waters of the Buffalo and watch the Ozark hill country mellow toward autumn. Paddling easily over deep, quiet pools and short, swift riffles, we will wind with the river beneath tall bluffs and beside long gravel bars, camping in solitude on its banks. Experience paddling on moving water will be helpful. Canoe

rental not included in trip fee. (Grade B) Leader: Sarah Reinke. Price: \$490; Dep: \$50. [93391]

Note: See Alaska & Arctic Canada and Service for other canoe outings.

KAYAK

Sea-Kayaking the Coast of Georgia—November 1–5.

Travel among Georgia's barrier islands—a vast, undisturbed coastal wilderness. Days will be spent at a leisurely pace, exploring tidal creeks and marshes with local naturalists, and slipping up quietly on gators, dolphins, and shore birds. We will spend our nights in primitive island campsites. Suitable for beginners with paddling experience. Trip price does not include kayak rental. Leader: Marjorie Richman. Price: \$695; Dep: \$100. [93392]

Note: See Alaska & Arctic Canada for other kayak outings.



ARLIND PERE

Rogue River Rafting, Oregon—June 6–10. Sample the joys of rafting on the Rogue, a National Wild and Scenic River that alternates quiet stretches with white-water excitement. We pass through a steep-sided, forested canyon filled with wildlife and relics of Indian fur traders and miners. We'll take time to swim, hike, and explore. This is a great family trip (minimum age six) and good for new river runners. *Leader: Bruce Macpherson. Price: \$755; Dep: \$100. [93394]*

San Juan River, Canyon Country Raft Trip, Utah—June 13–17. Our San Juan journey takes us 83 miles along the Navajo Reservation and through the colorful and contoured canyons of the Colorado River Plateau, including the 2,000-foot deep Goose-necks. We will explore Anasazi petroglyphs and cliff dwellings. This is a leisurely trip with time for swimming, hiking, and photography, great for new river runners and Grand Canyon veterans alike. Minimum age five. *Leader: Bruce Macpherson. Price: \$755; Dep: \$100. [93395]*

The River of No Return, Main Salmon Dory Trip, Idaho—July 23–29. The majestic Salmon originates in the springs and snowbanks of Idaho's Sawtooth Range, and is the Lower 48's longest undammed river. We travel 107 miles in oar-powered dories at a leisurely pace, enjoying rapids, sand beaches, wildlife, hiking, and outstanding scenery. This ideal family trip (minimum age seven) can be combined with the Lower Salmon trip (#93398 below) at a substantial savings. *Leader: Lynn Dyche. Price: \$1,310; Dep: \$200. [93397]*

Lower Salmon River Gorge/Snake River Dory Trip, Idaho—July 29–August 3. The "River of No Return" flows on to its confluence with the Snake River, passing through a series of canyons known collectively as "The Lower Gorge." Many of the rapids are magnificent Class III+ rides: The Rollercoaster, Demon's Drop, Lorna's Lulu, Bodacious Bounce. The serene Gorge grows deeper, more beautiful, and more abundant in wildlife every day. Combine with trip #93397 above at substantial savings. Minimum age six. *Leader: Mark Larson. Price: \$830; Dep: \$100. [93398]*

Main Salmon/Lower Salmon Combination Dory Trip, Idaho—July 23–August 3. Take trips #93397 and #93398 together as a single 12-day trip, and enjoy a significant price break. *Leaders: Lynn Dyche and Mark Larson. Price: \$1,810; Dep: \$200.*

Rogue River Rafting, Oregon—August 3–7. See description for trip #93394 above. *Leader: Sallee Lotz. Price: \$755; Dep: \$100. [93399]*

Hells Canyon, Snake River Dory Trip, Idaho and Oregon—August 5–10. Ride in a dory or paddle yourself through Hells Canyon, the world's deepest river gorge. The Snake River is clear and warm enough for swimming. The Canyon boasts idyllic camping beaches, exuberant Class III and IV whitewater, fishing, striking rockscapes, wildlife, and overwhelming canyon walls—all adding up to a hard-to-beat river voyage. Minimum age seven. *Leader: L. Wheaton Smith. Price: \$990; Dep: \$100. [93400]*

Note: See Alaska & Arctic Canada for other raft outings.



ESLIEH LUTZ

RAFT AND DORY

Experience North America's great rivers in a wood-hulled dory or an oar-powered raft. Unless otherwise indicated, participants may ride in the dory or raft, participate in a paddle-raft (on rafting trips only), or paddle an inflatable kayak. Participants under the age of 18 must be accompanied by an adult.

Rafting the Grand Canyon, Arizona—April 9–21. Experience this premier whitewater journey down 200 miles of the mighty Colorado. In April the Grand Canyon offers smaller crowds, unspoiled campgrounds, and only-in-spring waterfalls, wildflowers and wildlife. Be prepared for cooler weather, possible rain, Class IV and V rapids, and marvelous side-canyon hikes. Inflatable kayaks not available on this trip. *Leader: Gary Larsen. Price: \$2,295; Dep: \$200. [93099]*

Yampa River Raft, Dinosaur Monument, Utah—May 26–30. The Colorado's last undammed tributary, the Yampa roars 72 miles through the colorful canyon maze of Dinosaur National Monument. Most days we float serenely through the canyon, its 1.5 billion-year-old walls towering 2,000 feet over us while we observe bighorn sheep, eagles, and other wildlife. Late May mountain runoff provides over 40 Class III rapids, including Warm Springs Rapid, one of the best. Minimum age eight. *Leader: R. Kurt Menning. Price: \$595; Dep: \$100. [93393]*

Grande Ronde River by Dory, Umatilla Forest, Oregon—June 20–24. Flowing through the heartland of the Wallows Mountains, the Grande Ronde is a swift river with varied scenery and exciting Class III whitewater. Launching our beautiful dories in the mountains, we float from rugged, forested canyon through semi-arid terrain, then into sculpted and colored desert. Wildlife includes elk, bear, deer, bald eagles, and osprey. This is an excellent family trip (minimum age seven); no experience necessary. *Leader: Tony Strano. Price: \$715; Dep: \$100. [93396]*

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93309	Marble Mountain Wilderness	6/20-30	Service	119	93191	Kings Canyon & Sequoia Parks, Sierra	8/13-20	Backpack	86
93137	Ansel Adams Wilderness, Sierra	6/20-27	Backpack	80	93192	Kings Canyon Park, Sierra	8/15-21	Backpack	86
93235	Tahoe Forest, Sierra	6/20-26	Base Camp	95	93242	Tahoe Forest, Sierra	8/15-21	Base Camp	95
93138	South Warner Wilderness	6/21-30	Backpack	80	93193	Kings Canyon & Sequoia Parks, Sierra	8/15-22	Backpack	86
93269	Tahoe Forest, Sierra	6/27-7/3	Family	99	93194	John Muir Wilderness, Sierra	8/15-22	Backpack	88
93141	Tahoe Forest, Sierra	6/30-7/4	Backpack	80	93264	Toiyabe Forest & Yosemite Park, Sierra	8/15-22	Burro	98
93142	Sequoia Park & Golden Trout Wilderness, Sierra	7/1-10	Backpack	80	93195	Hoover Wilderness, Sierra	8/15-22	Backpack	88
93143	Emigrant Wilderness, Sierra	7/3-11	Backpack	80	93197	John Muir Wilderness, Sierra	8/20-28	Backpack	88
93144	Yosemite Park, Sierra	7/6-16	Backpack	81	93243	Sierra Forest, Sierra	8/21-28	Base Camp	94
93316	Russian Wilderness, Klamath Forest	7/7-17	Service	119	93285	Santa Cruz Mountains & Coast	8/22-28	Family	101
93145	Yosemite Park & Ansel Adams Wilderness, Sierra	7/8-17	Backpack	81	93265	Toiyabe Forest & Yosemite Park, Sierra	8/22-29	Burro	98
93146	Desolation Wilderness, Sierra	7/10-18	Backpack	81	93199	Kings Canyon & Sequoia Parks, Sierra	8/25-9/1	Backpack	88
93270	Tahoe Forest, Sierra	7/11-17	Family	99	93202	Kings Canyon & Sequoia Parks, Sierra	8/26-9/4	Backpack	88
93150	Inyo Forest, Sierra	7/11-18	Backpack	81	93203	Kings Canyon Park, Sierra	8/27-9/4	Backpack	88
93260	Yosemite Park, Sierra	7/11-18	Burro	98	93204	Sequoia Park, Sierra	8/28-9/6	Backpack	89
93323	Trinity Alps	7/13-23	Service	120	93205	John Muir Wilderness, Sierra	8/28-9/6	Backpack	89
93154	Ansel Adams & John Muir Wildernesses, Sierra	7/13-22	Backpack	82	93206	Ansel Adams Wilderness, Sierra	8/29-9/5	Backpack	89
93271	John Muir Wilderness, Sierra	7/17-24	Family	99	93208	Kings Canyon Park	9/2-11	Backpack	89
93157	John Muir Wilderness, Sierra	7/17-25	Backpack	82	93210	John Muir Wilderness, Sierra	9/5-14	Backpack	89
93238	Tahoe Forest, Sierra	7/18-24	Base Camp	95	93211	Jennie Lakes Wilderness & Kings Canyon Park, Sierra	9/7-10	Backpack	89
93158	Emigrant Wilderness, Sierra	7/18-25	Backpack	82	93298	Kings Canyon Park, Sierra	9/11-19	Highlight	106
93261	Yosemite Park, Sierra	7/18-25	Burro	98	93244	Tahoe Forest, Sierra	9/12-18	Base Camp	95
93159	Desolation Wilderness, Sierra	7/18-25	Backpack	83	93215	John Muir Wilderness, Sierra	9/13-24	Backpack	90
93328	Salmon River Wilderness	7/18-28	Service	120	93380	Santa Cruz Island Preserve	10/22-29	Service	125
93168	John Muir Wilderness, Sierra	7/22-29	Backpack	84	93381	Channel Islands Park	10/22-29	Service	125
93161	John Muir Wilderness, Sierra	7/23-31	Backpack	83	COLORADO				
93163	Yosemite Park & Toiyabe Wilderness, Sierra	7/24-31	Backpack	83	93315	Lizard Head Wilderness	7/7-17	Service	119
93164	Ansel Adams Wilderness, Sierra	7/24-31	Backpack	83	93317	Pike Forest	7/8-18	Service	119
93262	Yosemite Park & Inyo Forest, Sierra	7/25-8/1	Burro	98	93160	Maroon Bells-Snowmass Wilderness	7/19-23	Backpack	83
93239	Tahoe Forest, Sierra	7/25-31	Base Camp	95	93329	Lost Creek Wilderness	7/22-8/1	Service	121
93167	Sequoia & Kings Canyon Parks, Sierra	7/25-8/1	Backpack	84	93162	San Juan Mountains, Weminuche Wilderness	7/24-31	Backpack	83
93169	John Muir Wilderness, Sierra	7/26-8/4	Backpack	84	93166	Maroon Bells-Snowmass Wilderness	7/25-31	Backpack	84
93332	Inyo Forest, Sierra	7/27-8/6	Service	121	93331	Never Summer Wilderness, Rocky Mountain Park	7/26-8/5	Service	121
93335	John Muir Wilderness, Sierra Forest, Sierra	7/29-8/8	Service	121	93173	Weminuche Wilderness	8/1-7	Backpack	85
93170	John Muir Wilderness, Sierra	7/30-8/7	Backpack	84	93344	Maroon Bells-Snowmass Wilderness	8/6-16	Service	122
93275	Ansel Adams Wilderness, Sierra	7/31-8/7	Family	100	93348	Wyoming Trail, Zirkel Wilderness	8/10-20	Service	122
93171	Kings Canyon & Sequoia Parks, Sierra	7/31-8/7	Backpack	84	93350	South San Juan Wilderness	8/14-21	Service	122
93172	Ansel Adams Wilderness	7/31-8/7	Backpack	85	93357	Maroon Bells-Snowmass Wilderness	8/18-28	Service	123
93276	Ansel Adams Wilderness, Sierra	8/1-5	Family	100					
93179	Inyo Forest, Sierra	8/1-8	Backpack	85					
93180	Yosemite Park & Ansel Adams Wilderness, Sierra	8/1-8	Backpack	85					
93278	Tahoe Forest, Sierra	8/1-7	Family	100					
93182	Northern Yosemite, Hoover Wilderness, Sierra	8/1-8	Backpack	85					

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93297	Weminuche Wilderness	9/5-12	Highlight	106	MINNESOTA				
93257	Dinosaur Monument	9/8-12	Bicycle	97	93425	Boundary Waters Canoe Area Wilderness	2/8-12	Ski	127
93213	Continental Divide, Weminuche Wilderness	9/12-18	Backpack	90	93098	Boundary Waters Canoe Area Wilderness	5/23-29	Canoe	129
93216	Weminuche Wilderness	9/18-26	Backpack	90	93388	Boundary Waters Canoe Area Wilderness	7/8-16	Canoe	129
93371	Howeweep Monument	9/19-25	Service	124	93326	Boundary Waters Canoe Area Wilderness	7/18-24	Service	120
FLORIDA					93390	Boundary Waters Canoe Area Wilderness	9/19-25	Canoe	130
93426	Florida Trail Odyssey, Ocala Forest	2/21-27	Backpack	75	MISSISSIPPI				
93096	Everglades Park	2/21-26	Canoe	129	93075	Mississippi & Louisiana	3/7-13	Highlight	105
GEORGIA					MONTANA				
93097	Okefenokee Swamp	3/28-4/2	Canoe	129	93291	Greater Yellowstone, WY, MT & ID	7/4-10	Highlight	105
93392	Barrier Islands, Georgia Coast	11/1-5	Kayak	130	93187	Bob Marshall Wilderness	8/8-16	Backpack	86
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93072	Maui	3/13-27	Service	103	93196	Absaroka-Beartooth Wilderness	8/20-28	Backpack	88
93073	Kauai	4/3-10	Family	103	93361	Kintla Lake, Glacier Park	8/23-9/2	Service	123
93287	Maui	6/20-28	Family	103	NEVADA				
93288	Haleakala Park, Maui	10/16-24	Backpack	103	93236	Great Basin Park	7/11-17	Base Camp	94
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93291	Greater Yellowstone, WY, MT & ID	7/4-10	Highlight	105	NEW HAMPSHIRE				
93397	Main Salmon River, Sawtooth Wilderness	7/23-29	Rafting	131	93313	White Mountain Forest	7/4-10	Service	119
93398	Snake River, Lower Salmon River Gorge	7/29-8/3	Rafting	131	93345	White Mountain Forest	8/7-13	Service	122
93336	Selkirk Mountains, Panhandle Forest	7/31-8/10	Service	121	93354	White Mountain Forest	8/15-21	Service	122
93176	Sawtooth Wilderness	8/1-8	Backpack	85	93214	Presidential Range, White Mountain Forest	9/12-18	Backpack	90
93342	Hells Canyon Wilderness	8/3-13	Service	121	NEW JERSEY				
93400	Hells Canyon, Snake River, Idaho and Oregon	8/5-10	Rafting	131	93386	Pine Barrens, Wharton Forest	5/16-22	Canoe	129
93351	Salmon River Archaeology	8/14-21	Service	122	93375	Forsythe Wildlife Refuge, Cedar Bonnet Island	10/9-16	Service	124
93352	Selkirk Mountains, Panhandle Forest	8/14-24	Service	122	NEW MEXICO				
93296	Sawtooth Wilderness	8/22-29	Highlight	106	93302	Chaco Culture Historical Park	5/2-8	Service	118
ILLINOIS					93054	Gila & Aldo Leopold Wilderness Areas	5/9-15	Backpack	78
93379	Shawnee Forest	10/17-23	Service	125	93092	Gila Wilderness	5/15-22	Service	119
KENTUCKY					93131	Gila Wilderness	5/29-6/6	Backpack	79
93052	Big South Fork River, Kentucky & Tennessee	5/8-15	Backpack	78	93304	Chaco Culture Historical Park	6/5-12	Service	119
93378	Daniel Boone Forest	10/10-16	Service	125	93367	Chaco Culture Historical Park	9/12-18	Service	124
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93075	Louisiana & Mississippi	3/7-13	Highlight	105	93250	Finger Lakes	6/27-7/4	Bicycle	97
MAINE					93147	Ha-de-ron-dah Wilderness, Adirondack Park	7/11-16	Backpack	81
93307	Allagash Wilderness	6/19-27	Service	119	93237	Adirondack Park	7/17-24	Base Camp	94
93387	West Grand Lakes	6/27-7/3	Canoe	129	93327	Twitchell Lake, Adirondack Park	7/18-24	Service	120
93311	Acadia Park	6/27-7/3	Service	119	93252	Adirondack Forest	8/1-6	Bicycle	97
93273	Acadia Park	7/25-31	Family	100	93219	Adirondack Park	9/26-10/2	Backpack	90
93277	Acadia Park	8/1-7	Family	100	NORTH CAROLINA				
93253	Mt. Desert Island & Acadia Park	8/8-14	Bicycle	97	93087	Snowbird Wilderness	4/24-5/1	Service	117
93254	Coastal Maine	8/16-22	Bicycle	97	93233	Great Smoky Mountains Park, Tennessee & North Carolina	6/6-12	Base Camp	94
93366	Baxter State Park	9/11-19	Service	124	93281	Snowbird Wilderness, Nantahala Forest	8/8-14	Family	100
MARYLAND					93247	Great Smoky Mountains Park, Tennessee & North Carolina	10/10-17	Base Camp	94
93373	Chesapeake Bay	9/27-10/1	Service	124	OREGON				
93376	Maryland's Eastern Shore	10/10-16	Service	125	93394	Rogue River	6/6-10	Rafting	131
MICHIGAN					93396	Grande Ronde River, Umatilla Forest	6/20-24	Rafting	131
93424	Copper Harbor	1/31-2/6	Ski	127	93319	Mt. Hood Wilderness	7/11-17	Service	120
93294	South Manitou Island	8/15-21	Highlight	105	93330	Eagle Cap Wilderness	7/25-8/4	Service	121
93389	Isle Royale Park	8/29-9/4	Canoe	129	93399	Rogue River	8/3-7	Rafting	131
93356	Isle Royale Park	8/31-9/10	Service	123					
93368	North Country Scenic Trail	9/12-18	Service	124					
93212	Michigan's Upper Peninsula	9/12-18	Backpack	90					

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93365	Steens Mountain & Alvord Desert	9/8-18	Service	123	93067	Shenandoah Valley	5/16-22	Base Camp	93
PENNSYLVANIA					93068	Mt. Rogers Recreation Area	5/23-29	Base Camp	94
93130	Tiadahton Forest	5/23-29	Backpack	79	93232	Mt. Rogers Recreation Area	6/6-12	Base Camp	94
93370	Hawk Mountain Sanctuary, Appalachian Mountains	9/19-25	Service	124	VIRGIN ISLANDS				
PUERTO RICO					93062	Virgin Islands Park, U.S. Virgin Islands	2/28-3/6	Base Camp	93
93065	Puerto Rico	4/19-25	Base Camp	93	WASHINGTON				
SOUTH CAROLINA					93318	Gifford Pinchot Wilderness	7/10-20	Service	120
93377	Francis Marion Forest	10/10-16	Service	125	93148	Glacier Peak Wilderness	7/11-17	Backpack	81
SOUTH DAKOTA					93324	Wenatchee Forest	7/14-23	Service	120
93229	Badlands Park	5/23-28	Base Camp	93	93274	Okanogan Forest	7/25-31	Family	100
TENNESSEE					93333	Glacier Peak Wilderness, North Cascades	7/28-8/6	Service	121
93052	Big South Fork River, Kentucky & Tennessee	5/8-15	Backpack	78	93181	Olympic Park	8/1-8	Backpack	85
93233	Great Smoky Mountains Park, Tennessee & North Carolina	6/6-12	Base Camp	94	93279	Stehekin Valley, North Cascades	8/1-7	Family	100
93247	Great Smoky Mountains Park, Tennessee & North Carolina	10/10-17	Base Camp	94	93338	Olympic Park	8/2-12	Service	121
UTAH					93198	Glacier Peak Wilderness, North Cascades	8/21-29	Backpack	88
93034	Southern Utah	4/3-10	Backpack	75	93282	Stehekin Valley, North Cascades	8/8-16	Family	101
93084	Glen Canyon Recreation Area	4/4-10	Service	117	93283	Stehekin Valley, North Cascades	8/16-22	Family	101
93036	Great West Canyon, Zion Park	4/4-10	Backpack	76	93355	Mt. Rainier Park	8/16-26	Service	123
93038	Glen Canyon Recreation Area	4/11-17	Backpack	76	93207	Pacific Crest Trail, British Columbia to Washington	9/2-11	Backpack	89
93076	Southeast Utah	4/11-17	Highlight	105	93209	Pacific Crest Trail, Stevens Pass	9/4-12	Backpack	89
93039	Capitol Reef Park	4/11-17	Backpack	77	93256	San Juan Islands	9/5-11	Bicycle	97
93040	Capitol Reef Park	4/11-17	Backpack	77	93362	Morgenroth Lake, Olympic Park	9/8-17	Service	123
93041	San Rafael Swell	4/11-18	Backpack	77	93245	Stehekin Valley, North Cascades	9/19-25	Base Camp	94
93042	Glen Canyon Recreation Area	4/17-25	Backpack	77	WEST VIRGINIA				
93043	Glen Canyon Recreation Area	4/18-24	Backpack	77	93066	Dolly Sods Wilderness	5/16-22	Base Camp	93
93045	Zion Park	4/18-24	Backpack	77	93308	High Falls Trail, Monongahela Forest	6/20-26	Service	119
93047	Rustler Canyon, Canyonlands Basin	4/18-24	Backpack	77	93353	Ice Mountain Preserve, Hampshire County	8/15-20	Service	122
93088	Arches Park	4/25-5/1	Service	118	93217	Monongahela Forest	9/19-25	Backpack	90
93089	Arches Park	4/25-5/1	Service	118	WYOMING				
93090	Canyonlands Park & Dead Horse Point State Park	5/2-8	Service	118	93140	Grand Teton Park	6/26-7/4	Backpack	80
93050	Southeast Utah	5/2-8	Backpack	78	93312	Bridger Wilderness	7/1-11	Service	119
93051	The Needles, Canyonlands Park	5/2-8	Backpack	78	93291	Greater Yellowstone, WY, MT & ID	7/4-10	Highlight	105
93053	Arch Canyon, Southeast Utah	5/9-15	Backpack	78	93314	Washakie Wilderness, Shoshone Forest	7/6-16	Service	119
93055	Dark Canyon	5/9-15	Backpack	78	93320	Teton Wilderness	7/11-21	Service	120
93071	Arches Park	5/16-22	Family	99	93149	Clarks Fork of Yellowstone Canyon	7/11-18	Backpack	81
93093	Zion Park	5/16-22	Service	119	93155	Yellowstone Park	7/15-21	Backpack	82
93067	Dark Canyon Wilderness	5/23-29	Backpack	79	93292	Grand Tetons, Targhee Forest	7/17-24	Highlight	105
93393	Dinosaur Monument	5/26-30	Rafting	131	93156	Wind River Range, Bridger Wilderness	7/17-25	Backpack	82
93094	Bryce Canyon Park	5/29-6/5	Service	119	93272	Popo Agie Wilderness	7/24-31	Family	99
93070	Southern Utah	5/30-6/5	Bicycle	97	93165	Bridger & Popo Agie Wildernesses	7/24-8/1	Backpack	83
93231	Bryce Canyon Park	6/5-12	Base Camp	94	93334	Bighorn Forest	7/28-8/7	Service	121
93395	San Juan River	6/13-17	Rafting	131	93339	Popo Agie Wilderness, Bridger Teton Forest	8/2-12	Service	121
93136	Zion Park	6/20-26	Backpack	80	93183	Bridger Wilderness	8/7-14	Backpack	85
93139	Glen Canyon Recreation Area	6/21-30	Backpack	80	93347	Jedediah Smith Wilderness	8/10-20	Service	122
93310	Zion Park	6/23-30	Service	119	93295	Targhee Forest	8/15-22	Highlight	105
93153	High Uintas Wilderness	7/13-21	Backpack	82					
93359	Dixie Forest	8/22-28	Service	123					
93360	High Uintas, Wasatch-Cache Forest	8/23-9/2	Service	123					
93372	Arches Park	9/26-10/2	Service	124					
93374	Grand Gulch Primitive Area	10/2-9	Service	124					
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93222	Navajo Mountain, Arizona & Utah	10/9-16	Backpack	91					
93223	Canyonlands Park	10/9-17	Backpack	91					
93224	Zion Park	10/10-16	Backpack	91					
93246	Zion Park	10/10-16	Base Camp	94					
VERMONT									
93255	Touring Vermont	8/29-9/4	Bicycle	97					

Reservation and Cancellation Policy

Eligibility: Our trips are open to Sierra Club members, applicants for membership, and members of organizations granting reciprocal privileges. You may include your membership application and fee with your reservation request.

Children must have their own memberships unless they are under 12 years of age.

Unless otherwise specified, a person under 18 years of age may join an outing only if accompanied by a parent or responsible adult or with the consent of the leader.

Applications: One reservation form should be filled out for each trip by each person; spouses and families (parents and children under 21) may use a single form. Mail your reservation, together with the required deposit, to Sierra Club Outing Department, Dept. #05618, San Francisco, CA 94139. No reservations will be accepted by telephone.

Reservations are confirmed on a first-come, first-served basis. However, since acceptance by the leader is required (based on applicant's experience, physical condition, etc.), the reservation is confirmed subject to the leader's approval, for which the member must apply promptly.

When a trip is full, later applicants are put on a waitlist.

Give some thought to your real preferences. Some trips are moderate, some strenuous; a few are only for highly qualified participants. Be realistic about your physical condition and the degree of challenge you enjoy.

The Sierra Club reserves the right to conduct a lottery in order to determine priority for acceptance in the event that a trip is substantially oversubscribed shortly after publication.

Reservations are accepted subject to these general rules and to any specific conditions announced in the individual trip brochures.

Deposit: A deposit is required with every trip application. The amount of the deposit varies with the trip price, as follows:

Trip price per person	Deposit per person
Up to \$499	\$50 per individual
\$500 to \$999	\$100 per individual
\$1,000 and above	\$200 per individual

The deposit is applied to the trip price when the reservation is confirmed. All deposits and payments should be in U.S. dollars.

Payments: Generally, adults and children pay the same price; some exceptions for family outings are noted. You will be billed upon receipt of your application. Full payment of trip fee is due 90 days prior to trip departure. Trips listed in the "International" section require additional payment of \$300 per person six months before departure.

Please note that payments are due at the above times, regardless of your leader-approval status. If payment is not received on time, the reservation may be canceled and the deposit forfeited.

No payment (other than the required deposit) is necessary for those waitlisted. The applicant will be billed when placed on the trip.

The trip price does not include travel to and from the roadhead or specialized transportation on some trips (check trip brochure). Hawaii, Alaska, and International trip prices are all exclusive of airfare.

Transportation: Travel to and from the roadhead is your responsibility. To conserve resources, trip members are urged to form carpools on a shared-expense basis or to use public transportation. On North American trips the leader will try to match riders and drivers. On some overseas trips you may be asked to

make your travel arrangements through a particular agency.

Infrequently the Sierra Club finds it necessary to cancel trips. The Club's responsibility in such instances is limited in accordance with the Trip Cancellation Policy. Accordingly, the Sierra Club is not responsible for nonrefundable airline or other tickets or payments or any similar penalties that may be incurred as a result of any trip cancellation.

Confirmation: A reservation is held for a trip applicant, if there is space available, when the appropriate deposit has been received by the Outing Department. A written confirmation is sent to the applicant. The reservation is confirmed subject to the leader's approval. If there is no space available when the application is received, the applicant is placed on the waitlist and the deposit is held pending an opening.

When a trip applicant is placed on the waitlist, the applicant should seek immediate leader approval so that in the event of a vacancy the reservation can be confirmed. When a person with a confirmed reservation cancels, the person at the head of the waitlist will automatically be confirmed on the trip, subject to leader approval. The applicant will not be contacted prior to this automatic reservation-confirmation except in the three days before trip departure.

Refunds: You must notify the Outing Department directly during working hours (weekdays 9-5; phone 415-923-5522) of cancellation from either the trip or the waitlist. The amount of the refund is determined by the date that the notice of cancellation by a trip applicant is received at the Outing Department. The refund amount may be applied to an already-confirmed reservation on another trip.

For More Details on Outings

Each outing is described in detail in individual trip brochures. We highly recommend reading a brochure before signing up for a trip. Trips vary in size, cost, and physical stamina and experience required. Don't sign up for the wrong one! Read the brochure, and save yourself the cost and inconvenience of changing or cancelling a reservation. The first three brochures are free. Please enclose 50 cents apiece for extras. Write or phone the trip leader if any further questions remain.

Name _____

Address _____

City _____ State _____ Zip _____

Please send me the following trip brochures. (Order by trip number. The first three are free; extras cost 50 cents each.)

_____ # _____ # _____

TOTAL ENCLOSED: \$ _____

Do not mail cash. Make checks payable to Sierra Club.

IMPORTANT INFORMATION ON SIERRA CLUB OUTINGS

Mail To:
Sierra Club Outing Dept.
Dept. #05618
San Francisco, CA 94139



1. All reservations are subject to the reservation/cancellation policy of the Outing Committee; leader approval is required for all outings. Cancellation fees apply unless you are waitlisted at time of cancellation.
2. A signed liability release is required for all international trip participants.
3. All participants age 12 and over must be Sierra Club members to attend an outing.
4. Your address may be released to other trip participants for purposes of ride-sharing or other trip-related purposes.
5. Not all trips can accommodate special dietary needs or preferences. Contact the leader for this information before applying.
6. Applications for trip space will be accepted in the order they are received at the following address:

Sierra Club Outing Dept.
Dept. #05618
San Francisco, CA 94139

7. Please do not send Express Mail to this address. Doing so will delay your application.

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OUTING RESERVATION FORM

Please read important policy information on reverse.

MEMBERSHIP NUMBER		TRIP NUMBER		TRIP NAME		DEPARTURE DATE	
YOUR NAME				HAVE YOU RECEIVED THE DETAILED TRIP BROCHURE: YES <input type="checkbox"/> NO <input type="checkbox"/>			
STREET ADDRESS				YOUR HOME PHONE ()			
CITY		STATE		ZIP		YOUR WORK PHONE ()	
PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY		MEMBERSHIP NUMBER	AGE	RELATIONSHIP	NUMBER OF OUTINGS YOU'VE BEEN ON CHAPTER NATIONAL		YEAR OF LAST NATIONAL OUTING
1.				SELF			
2.							
3.							
4.							
FEE PER PERSON COST OF OUTING		TOTAL COST OF APPLICATION		DEPOSIT ENCLOSED		FOR OFFICE USE ONLY	



PLEASE MAKE CHECK PAYABLE TO SIERRA CLUB
MAIL TO: SIERRA CLUB OUTING DEPARTMENT, DEPT. #05618, SAN FRANCISCO, CA 94139

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OUTING RESERVATION FORM

Please read important policy information on reverse.

MEMBERSHIP NUMBER		TRIP NUMBER		TRIP NAME		DEPARTURE DATE	
YOUR NAME				HAVE YOU RECEIVED THE DETAILED TRIP BROCHURE: YES <input type="checkbox"/> NO <input type="checkbox"/>			
STREET ADDRESS				YOUR HOME PHONE ()			
CITY		STATE		ZIP		YOUR WORK PHONE ()	
PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY		MEMBERSHIP NUMBER	AGE	RELATIONSHIP	NUMBER OF OUTINGS YOU'VE BEEN ON CHAPTER NATIONAL		YEAR OF LAST NATIONAL OUTING
1.				SELF			
2.							
3.							
4.							
FEE PER PERSON COST OF OUTING		TOTAL COST OF APPLICATION		DEPOSIT ENCLOSED		FOR OFFICE USE ONLY	



PLEASE MAKE CHECK PAYABLE TO SIERRA CLUB
MAIL TO: SIERRA CLUB OUTING DEPARTMENT, DEPT. #05618, SAN FRANCISCO, CA 94139

04

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Send membership forms separately to avoid processing delays.

Sierra Club Outing Dept.

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San Francisco CA 94139

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The Cancellation Policy applies to all reservations, regardless of whether or not the leader has notified the applicant of approval.

The Outing Committee regrets that it that it cannot make exceptions to the Cancellation Policy for any reason, including personal emergencies. Cancellations for medical reasons are often covered by traveler's insurance, and trip applicants will receive a brochure describing this type of coverage. You can also obtain information regarding other plans from your local travel or insurance agent. We encourage you to acquire such insurance.

Trip leaders have no authority to grant or promise refunds.

Transfers: For transfers from a confirmed reservation made 14 or more days prior to the trip departure date, a transfer fee of \$50 is charged per application. Transfers made 1 to 13 days prior to the trip departure date will be treated as a cancellation, and the Cancellation Policy will apply. No transfer fee is charged if you transfer from a waitlist. A complete transfer of funds from one confirmed reservation to another, already-held, confirmed reservation will be treated as a cancellation, and will be subject to cancellation fees.

Medical precautions: On a few trips a physician's statement of your physical fitness may be needed, and special inoculations may be required for international travel. Check with a physician regarding immunization against tetanus.

Emergency care: In case of accident, illness, or a missing trip member, the Sierra Club, through its leaders, will attempt to provide aid and arrange search and evacuation assistance when the leader determines it is necessary or desirable. Costs of specialized means of evacuation or search (helicopter, etc.) and of medical care beyond first aid are the financial responsibility of the ill or injured person. Since such costs are often great, medical and evacuation insurance is advised, as the Club does not provide this coverage for domestic trips. Participants on international outings are covered by limited medical, accident, and repatriation insurance. Professional medical as-

sistance is not ordinarily available on such trips. Be sure your insurance covers you in the countries involved.

The leader is in charge: At the leader's discretion, a member may be asked to leave the trip if the leader feels the person's further participation may be detrimental to the trip or to the individual.

Please don't bring these: Radios, sound equipment, firearms, and pets are not allowed on trips.

The following obligations are undertaken by trip applicants: to accurately and completely

furnish any personal information requested for leader approval; to carefully review all information furnished about the requested trip and to understand as thoroughly as possible the physical and mental demands of the trip and the risks to be encountered on the trip; to properly equip themselves for the trip in accordance with recommendations of the leader and of the Sierra Club; to respect the customs of countries visited, avoid breaking any applicable laws and to refrain from antisocial conduct during the trip; to follow environmental guidelines and regulations while on the trip in accordance with direction from the leader; and, to always respect the rights and privacy of other trip members.

Time or event of cancellation	Amount forfeited per person	Amount refunded per person
1) Disapproval by leader (once leader approval information has been received by the leader)	None	All amounts paid toward trip price
2) Cancellation from waitlist, or the person has not been confirmed three days prior to trip departure	None	All amounts paid toward trip price
3) Trip canceled by Sierra Club	None	All amounts paid toward trip price
4) Cancellation from confirmed position or confirmed position subject to leader approval		
a) 90 days or more prior to trip departure date	\$100 or amount of deposit, whichever is less	All amounts paid toward trip price exceeding forfeited amount
b) 60-89 days prior to trip departure	Amount of deposit	As above
c) 14-59 days prior to trip departure date	20% of trip fee, but no less than the amount of deposit	As above
d) 4-13 days prior to trip departure date if replacement can be obtained from waitlist	30% of trip fee, plus \$50 processing fee, but in no event more than 50% of total trip fee	As above
e) 4-13 days prior to trip departure date if replacement cannot be obtained from waitlist (or if there is no waitlist at the time of cancellation processing)	40% of trip fee, plus \$50 processing fee, but in no event more than 50% of total trip fee	As above
f) 0-3 days prior to trip departure date	Trip fee	No refund
g) "No-show" at the roadhead, or if participant leaves during trip	Trip fee	No refund

INTERNATIONAL TRIP TIER-PRICING

International outings are tier-priced. This means a trip's price is dependent on the number of participants. Two prices are listed for a trip, showing the signup levels associated with each.

Final billing is based on the signup level at 90 days prior to the trip departure date. If the signup level goes up sufficiently between the billing and departure dates, the lower tier price will apply, and refunds will be issued after the trip is over.

Cancellations from trips where the tier price has changed are subject to our reservation and cancellation policy. All regular cancellation fees will apply.

Mail checks and applications (excluding those sent by express mail) to:

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Dept. #05618, San Francisco, CA 94109

Mail all other correspondence (including express-mail applications) to:

Sierra Club Outing Department
730 Polk St., San Francisco, CA 94109



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to practice and promote the responsible use of the
Earth’s ecosystems and resources;
to educate and enlist humanity to protect and restore the
quality of the natural and human environment;
and to use all lawful means to carry out these objectives.”**

—Sierra Club statement of purpose

CONSUMERISM

Continued from page 62

though that model requires more hours devoted to work than have been committed by most civilizations in history.

Physical flows of natural resources would slow radically in an economy of permanence, while the money value of the services that people enjoy might fall little. The crucial distinction is between commodities and the services people use those commodities to get. For example, nobody wants telephone books or newspapers for their own sake; rather, we want access to the information they contain. In an economy of permanence, that information might be available to us for much the same price on electronic readers. That would enable us to consult the same texts but eliminate most paper manufacturing and the associated pollution.

Likewise, people do not want cars as such; they buy them to gain ready access to a variety of facilities and locations. Good town planning and public transportation could provide that access equally well. In every sector of the economy, from housing to food, this distinction between means (physical goods) and ends (services) helps lay bare the vast opportunities to disconnect high resource consumption from the quality of life.

The total amount of work done in an economy of permanence may decrease little, because the most ecologically damaging products and forms of consumption also usually generate the fewest jobs. Indeed, there is a striking correspondence between high labor intensity and low environmental impact. Repairing existing products, for example, uses more labor and fewer resources than manufacturing new ones. Railway systems employ more people but fewer natural resources than comparable fleets of cars do. Improving energy efficiency would employ more people than would boosting energy production. And recycling programs employ more people than waste incinerators or landfills do.

Were the consumer class to substi-

tute local foods for grain-fed meat and packaged fare, to switch from cars to bikes and buses, and to replace throwaways with durable goods, labor-intensive industries would benefit greatly. Still, on balance, the amount of paid work done might decrease, because low-impact industries would probably expand less than high-impact industries contracted. To cope fairly with slackening job markets, societies in transition to low consumption would (among other initiatives) have to provide laborers in high-impact fields with sufficient job retraining, offer adequate unemployment compensation to smooth the process, and reduce the number of hours each person works. Fortunately, as far as this last-named strategy is concerned, most of us consumers work more than we wish to anyway—a topic we will examine in greater depth shortly.

GOVERNMENTS WILL also find themselves addressing the employment question when they tackle—as they must—a radical reorientation of their prevailing tax and subsidy policies, many of which promote the worst kinds of consumption. Most nations favor their auto, energy, mining, timber, and grain-fed livestock industries with a long list of tax writeoffs and direct subsidies. The United States virtually gives away minerals on federal land, builds logging roads into national forests at taxpayer expense, and sells irrigation water in the arid West at a loss. France massively subsidizes its nuclear-power complex, Russia its oil industry, the United Kingdom its auto drivers, the Canadian province of Quebec its aluminum smelters, and Japan its feed-grain growers.

Beyond financial transfers and biased policies are the implicit subsidies of the nature-blind economic accounting systems that governments use. Coal and oil are not priced to reflect the damage their production and combustion cause to human health and natural ecosystems. Pulp and paper are not priced to reflect the habitat destroyed and water poisoned in their production. Scores of products—from toxic

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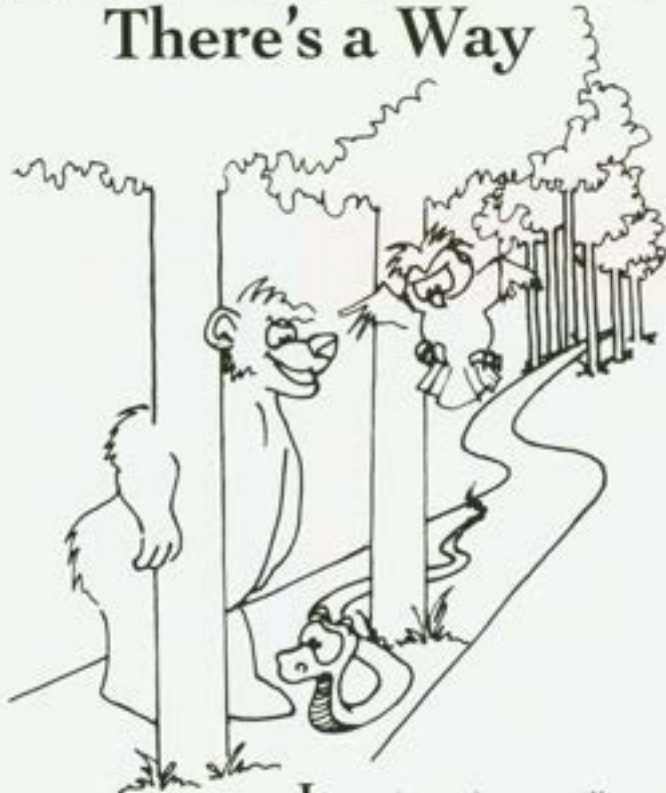
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Because of their concern for the environment, many individuals have included the Sierra Club in their will, some designating a specific program or entity such as:

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- public affairs & education
- inner city outings & service trips
- Sierra Club Books & SIERRA magazine

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chemicals to excessive packaging—cost the earth more than their price tags reveal.

If goods were priced to reflect something closer to their full environmental costs, the market would help guide consumers toward lower resource consumption. Disposables and packaging, for instance, would rise in price relative to less-packaged goods; local unprocessed food would fall in price relative to prepared products trucked from far away. If legislators shifted the tax burden from labor to resources, companies would swiftly move to trim resource use as environmental taxes rose, and hire more people as income taxes fell.

Already, environmental and taxpayer groups in many nations single out egregious subsidies and tax shelters as targets for reform. But they commonly lose the big battles, overwhelmed by the political clout of the billion-dollar industries that doggedly defend the status quo. Every battle lost demonstrates the difficulty and the urgency of mobilizing more members of the consumer class in support of prices that tell the ecological truth.

AS PREVIOUSLY SUGGESTED, an important approach to a low-consumption, sustainable future is for us consumers to release ourselves from the strictures of full-time work. Many of us find ourselves agreeing with American industrial designer William Stumpf, who says, "We've got enough stuff. We need more time."

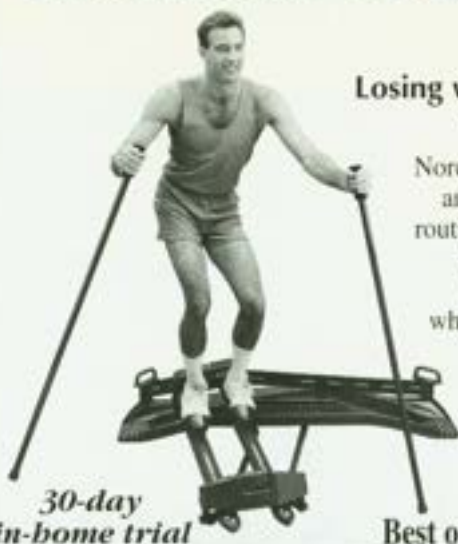
Although fulfilling work and adequate leisure are both key determinants of human contentment, the balance in the consumer society tilts too far toward work. Working hours in industrial societies, although far below their peak during the Industrial Revolution, remain high by historical standards. Japanese and Americans are especially overworked. Europeans have been trading part of their pay raises for additional leisure time since 1950, but Americans and Japanese have not. In Germany and France, the average hours worked per week have gone from 44 and 38 hours respectively in 1950 to

31 hours in 1989, with much of the decline reflecting annual vacation leaves spanning four to eight weeks. In Japan, weekly hours have gone from 44 to 41. In the United States, meanwhile, the workweek declined slightly from 1950 to 1970, but has actually increased since then. Americans work 38 hours a week, on average, and have added an entire month's worth of work to their schedule since 1970.

Harvard University economist Juliet Schor writes in *The Overworked American*: "Since 1948, the level of productivity of the U.S. worker has more than doubled. In other words, we could now produce our 1948 standard of living in less than half the time. Every time productivity increases, we are presented with the possibility of either more free time or more money. We could have chosen the four-hour day. Or a working year of six months. Or every worker in the United States could now be taking every other year off from work—with pay." Instead, Americans work the same hours and earn twice the money. To check whether that choice reflected the will of American workers, Schor delved into the arcane field of labor-market economics and, having surveyed dozens of studies, concluded that it did not. Workers in all the core regions of the consumer society express—either in opinion surveys or in collective-bargaining positions—a strong desire for additional leisure time and a willingness to trade pay increases for it. They also report that they do not have that option: They can take a job or leave it, but they cannot take it for fewer hours a day. Part-time work, furthermore, is in general less skilled, less interesting, and less well paid because it lacks fringe benefits such as retirement and insurance plans. So most of us are left with the choice of good full-time jobs or bad part-time ones.

In an earlier era, cynics said workers would squander free time on drinking and gambling. But when the W. K. Kellogg Company shortened its workday from eight hours to six during the Great Depression, community initiatives proliferated. Contemporary observer Henry Goddard Leach noticed

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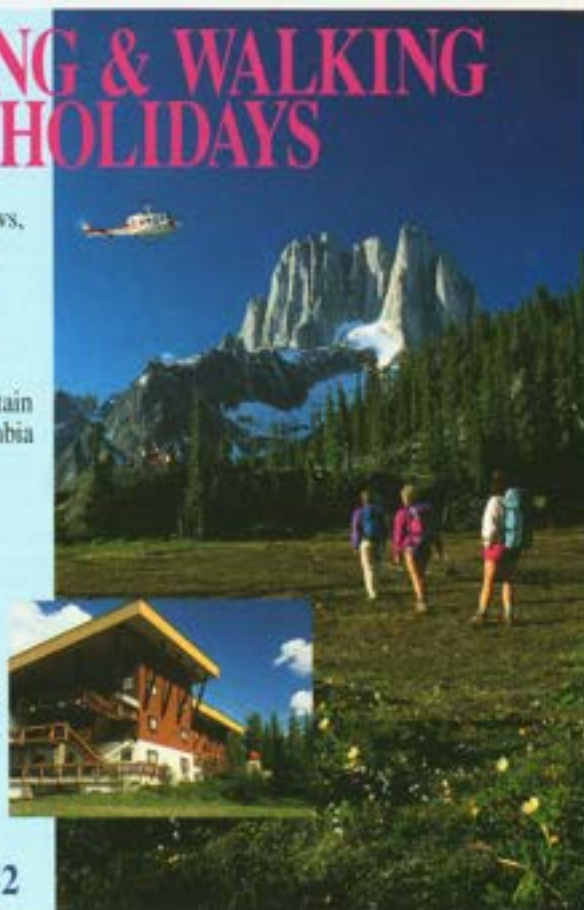
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"a lot of gardening and community beautification. . . . Athletics and hobbies were booming. . . . Libraries [were] well patronized . . . and the mental background of these fortunate workers . . . [was] becoming richer."

Mounting pressure for more time instead of more money is evident in things like the campaign of some 240 U.S. labor, women's, and children's organizations for the right to take time off for family and medical purposes. The coalition, chaired by the Women's Legal Defense Fund, pushed a bill through Congress in 1991 that was vetoed twice by President Bush. Similarly, for two decades unions such as Service Employees International have been supporting voluntary work-time reduction programs for workers who want free time instead of money. The Service Employees won such a program temporarily for California state government workers in the 1970s, and later prevailed permanently for New York state government employees.

More recently, interest has surged in flexible work arrangements such as job sharing, particularly among women stretched thin by the "double day" of career and family. So far, unfortunately, American men have not joined women in pushing for flexible or reduced hours, perhaps because our culture disapproves of men who don't want to work full-time. Meanwhile, in Japan, where *karoshi* (death from overwork) kills perhaps 10,000 people a year, young workers are displaying a newly disapproving attitude toward overtime, pressuring colleagues to leave the office at the end of the scheduled day. The Japanese government plans to switch the country from a six-day workweek to a five-day one by early in the next century. In Europe, too, unions continue to press for additional time off.

No one can say yet how strong this preference for free time over extra consumption is. In theory, if everyone consistently chose free time over additional money, normal gains in labor productivity would cut consumer-class working hours in half by 2020, giving us abundant time for personal develop-

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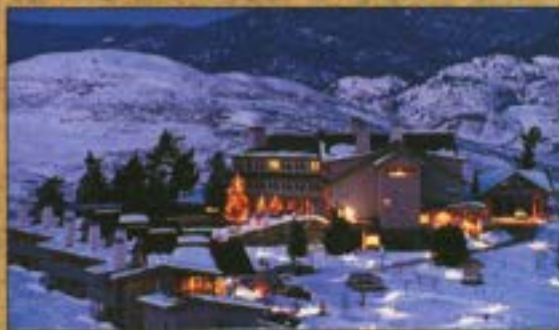
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A CULTURE OF PERMANENCE will not come quickly. Much depends on whether we, among the richest fifth of the world's people, having fully met our material needs, can turn to nonmaterial sources of fulfillment. Can we—who have defined the tangible goals of world development—now craft a new way of life at once simpler and more satisfying? Having invented the automobile and airplane, can we return to bicycles, buses, and trains? Having introduced the junk-food diet, can we nourish ourselves on wholesome fare that is locally produced? Having pioneered sprawl and malls, can we recreate human-scale settlements where commerce is an adjunct to civic life rather than its purpose?

If our grandchildren are to inherit a planet as bounteous and beautiful as we have enjoyed, we in the consumer class must—without surrendering the quest for advanced, clean technology—eat, travel, and use energy and materials more like those on the middle rung of the world's economic ladder. If we can learn to do so, we might find ourselves happier as well.

Accepting and living by sufficiency rather than excess offers a return to what is, culturally speaking, the human home: to the ancient order of family, community, good work, and good life; to a reverence for skill, creativity, and creation; to a daily cadence slow enough to let us watch the sunset and stroll by the water's edge; to communities worth spending a lifetime in; and to places pregnant with the memories of generations. Perhaps Henry David Thoreau had it right when he scribbled in his notebook beside Walden Pond, "A man is rich in proportion to the things he can afford to let alone." ■

ALAN THEIN DURNING is a senior researcher with the Worldwatch Institute in Washington, D.C. This essay is adapted from his book *How Much Is Enough?* (W. W. Norton, 1992).

► For more information, see "Resources," p. 156.

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TATSHENSHINI

Continued from page 41

half expect a familiar voice to tell me that I have just entered the Twilight Zone. Occasional raggedy eagles flap by, then three herring gulls in pursuit of a warbler. Ten feet off our bow, the lead gull snatches the tiny bird in its mouth and flies off to make its meal.

By the time the fog clears several hours later, we have been joined by the Asek, the Tatshenshini's wilder, less-hospitable sister. Visibility, however, does little to help us comprehend the scene. The redoubled river seems to be pouring into a box canyon, ringed on every side by sheer walls of snowy peaks. Just when it seems we must dive beneath the rock wall, the mystery is solved: the river hits the Icefield Range and takes a 90-degree turn to the south, the first in a series of major jogs following the lines of earthquake fault systems. This is the most seismically active zone in Canada; in 1899, the largest earthquake ever recorded in North America (8.6 on the Richter scale) thrust mountains up 47 feet and caused glaciers to surge half a mile in five minutes. In 1958 a 7.9 quake triggered massive rockslides, raised up miles of land at Glacier Bay, and sent a 1,800-foot tidal wave sweeping over Lituya Bay. These are the forces Windy Craggy's toxic tailings pond must be proof against for thousands of years.

We cross the international border (no customs post in sight) and into the upper reaches of Glacier Bay National Park. We can tell we're in Alaska by our greeting that evening when we stroll down from our campsite to visit a neighboring party of rafters. A burly Colorado contractor glances disdainfully at the cayenne-spray canister on Jock's belt: "So that's your bear mace? This here's mine . . ." Whereupon he pulls out a .454 magnum (a massive appliance subsequently known at our camp as "the hogleg") and offers all comers the opportunity to take a shot at defenseless Walker Glacier.

The glacier is not so called after an eminent bear hunter or copper pros-

pector, but because you can easily walk on it. This we do the next morning, peering into crevasses, listening to rumbling streams at the bottoms of moulins, and marveling at clumps of moss stubbornly clinging to the ice. ("Wherever life has not died out," wrote Brecht, "it staggers to its feet again.") Ric finds a boulder wedged at the top of a crevasse, and persuades Dona to sit on it while he takes pictures, until a sudden gust of wind sends her hat spinning into the turquoise depths. Perhaps in 20,000 years, I comfort, the hat on the Tat will come back.

THE SHAREHOLDERS of Geddes Resources have little to celebrate this new year. A change of government in British Columbia has brought to power the considerably more environment-minded New Democratic Party, which scathingly rejected Geddes' original mining plan, and has now announced that it will consider a range of options for the area—including, for the first time, complete preservation. In a rare turnabout, resource-extraction interests are on the defensive. "Killing the project sends an extremely negative message to the mining industry about British Columbia," noted Toronto's *Financial Post*, "But not killing it will totally alienate the NDP's environmental supporters. Compared to them, the Tatshenshini grizzlies are puppy dogs."

The Windy Craggy proposal's weakest point, however, is its necessary reliance on the cooperation of the United States. The slurry pipeline to Haines would have to cross the Chilkat Bald Eagle Preserve, where a spill into the river would be catastrophic. Haines' own \$41-million salmon fishery would be put at risk by the daily discharge of 360,000 gallons of slurry effluent into the Lynn Canal—all for the sake of the 12 jobs the ore terminal would provide.

Consequently, Tatshenshini International has been diligent in working the U.S. side of the border as well, making the Tatshenshini, according to Careless, "the first Canadian wilderness issue ever formally addressed by the U.S. Congress." Last year Senator Albert

Gore (D-Tenn.) and Representative Wayne Owens (D-Utah) introduced a resolution calling for the entire area to be made a World Heritage Site, and for the Windy Craggy project to be reviewed by the International Joint Commission, the body that adjudicates U.S.-Canada border disputes.

Geddes may now be looking for a way to bail out, suggesting hopefully that \$1 billion would be fair compensation for relinquishing its claim. (The company has spent \$47 million on its development so far, with the bulk of the money coming from a now-discontinued tax-shelter program.) "If I were in their position, I'd want to be bought out too," says Careless. "They're just another mining company that made a gamble that didn't pay off. Their claim has no value, unless they're into mining ice cubes."

EACH DAY OF OUR DOZEN the landscape has grown in grandeur. Now, as we slice through the heart of the St. Elias Range, the river has grown so

wide that at times it feels like the sea. Ice is everywhere: the Sapphire Glacier on our left, the giant Novatak, 5 miles wide and 60 long, on our right. This is the most heavily glaciated non-polar region in the world; everything is frozen except for this green river, and it's pretty cold too. (The only known remedy for washing one's hair in its waters is Johnnie Walker.)

Another mountain-glacier-mountain barrier, the Brabazon Range, sends us careening hard left again toward Alsek Lake, from which we are separated by a narrow promontory known as the Spit. We camp in what seems a stranger's garden, a blazing palette of Indian paintbrush in an astonishing array of hybridized hues, as well as fireweed, grass-of-Parnassus, river beauty, and goldenrod. The spot is also favored by grizzlies, and we are warned to take extra precautions. Off on a hike at dawn without a hogleg, I don't want to waken my snoozing companions, and so compromise by plowing through the brush calling out

"Yo bear! Yo bear!" in a loud stage whisper. The mercy reserved for fools protects me.

Our voyage's end is nigh. We sail around the Spit and into Alsek Lake, a mile-wide reflecting pond of turquoise statuary, drifting icebergs ranging in form and size from hulking slabs and towers to whimsical "bergie bits" and icechest-size "growlers." Dwarfing all is the horizon-filling sweep of the Alsek Glacier, whose two great arms plunge directly into the lake on either side of a *nunatak*, a central dividing mountain that has managed to withstand the press of eons. Thunder signals the calving of a new iceberg from the distant glacier, a painful birth that leaves the face with a glorious scar of deepest cobalt, the distillation of ten thousand years.

Stupid Question: If this isn't worth saving, what is? ■

PAUL RAUBER is an associate editor of *Sierra*.

► For more information, see "Resources," p. 156.

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WETLANDS

Continued from page 59

of regulation. Said Mark Maslyn of the American Farm Bureau Federation, "Suddenly, people were getting nabbed and being told that a soybean field their dad had worked for 50 years was a wetland and they'd need a permit." It was true—but only if they wanted to quit farming and develop that field. And even if they had such plans, they had a 90-percent chance of getting a go-ahead.

Despite these facts, the Farm Bureau declared that the manual extended regulation to 60 million acres of "prior converted" wetlands that had been farmed for generations. Congress and the White House were bombarded with complaints.

Three-quarters of the 335 "horror stories" submitted by the Farm Bureau Federation to the Senate Environment and Public Works Committee turned out to be unfounded; they concerned regulations that predated the new manual. More than a third of the rest were from farmers who sought to build condominiums, industrial parks, or shopping centers on their lands, and who didn't like the idea of getting a permit. "Farmers who had never been bothered before were being told that anything they did with their land was being regulated. That caused a panic," says EPA wetlands scientist Charles Rhodes.

Distortions abounded in the popular media. *Forbes* ran maps suggesting that the regulations turned virtually all of Dorchester County, Maryland, into wetlands. The "before" map showed only tidal wetlands, while the "after" map showed all the county's previously regulated wetlands, and added farms with saturated soils, even after the Corps compromised with farmers by declaring that most lands converted before the 1985 farm bill would be exempt from permit requirements.

There were tales of seemingly innocent victims of the new rules. The *Wall Street Journal* reported that John Pozgai, a Pennsylvania mechanic, was just

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cleaning up an old dump when wetland regulators hauled him off to jail. Pozgai said he had no idea he was in a wetland. Alaska Representative Don Young (R) called the incident "an atrocious misuse" of the Clean Water Act. The federal district court that sentenced Pozgai, however, found more to the story: Pozgai was seeking to expand his mechanic's shop, and he knew the site was a wetland—he had negotiated a reduced price for it precisely because it couldn't be developed. Having bought the land, however, he proceeded to fill it. When he failed to heed a federal restraining order telling him to stop, he was sent to jail.

Another "victim" was Ray Hendley, who constructed five homes on a wetland in Georgia. A *Washington Post* article suggested Hendley had no idea he had invaded a wetland until after the houses were built. But water marks on the trees in photos accompanying the article indicate the site was a cypress swamp. Hendley had to fill the property before he could start construction, and shortly after he began, his neighbors complained that he was flooding their properties. The Corps and the EPA both ordered him to stop, but he ignored them.

Louisiana Representative Jimmy Hayes told of a woman from South Carolina who was cited by the Corps for despoiling a wetland when she planted roses in her front yard. The story turned out to be apocryphal, but that didn't keep it from spreading: A Columbia, South Carolina, newspaper repeated it but moved the rosebed to Georgia. Subsequently, the Heritage Foundation published a paper in which they referred to an elderly lady in Wyoming "who was prohibited from planting a bed of roses on her land, again in the name of enforcing the Clean Water Act."

Meanwhile, oil and gas companies feared the new manual's effects on their operations in Alaska and Louisiana, where the terrain is more than half wetlands. In 1989 they formed the core of the National Wetlands Coalition, a lobbying group run out of a

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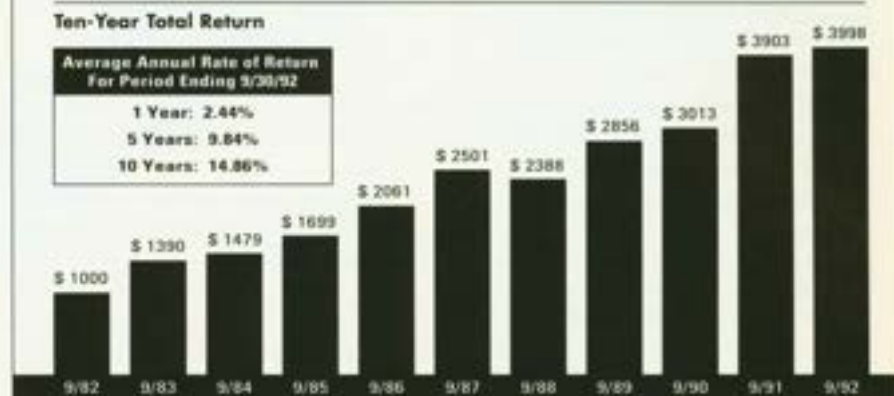
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Washington, D.C., law office. Members of the coalition gave more than \$2 million to the Reagan and Bush election campaigns, contributions that bought them ample access to the political process.

In 1991 the coalition convinced Dan Quayle's Council on Competitiveness to push for new EPA rules that would have defined out of existence more than half of the nation's wetlands. The revisions required that a wetland be shown to have all three indicators: wetland soils, hydrology, and vegetation. They also required that the area be wet for 21 consecutive days. This provision had no basis in science; it was the result of bargaining between the Quayle council (which wanted 30 days) and the EPA (which wanted seven).

The proposed revision conflicted starkly with George Bush's 1988 campaign pledge to a "no net loss of wetlands" policy, and cast doubt upon his commitment to the environment. It drew criticism from scientists, conservationists, and politicians alike. New Jersey Governor Jim Florio called it "a thinly disguised attempt to shrink the amount of wetlands subject to protection." Ronald Pulliam, president of the Ecological Society of America, called the Quayle council's proposal irresponsible. He recommended that wetland scientists work through the National Academy of Sciences to come up with an alternative to the council's revised definitions.

In August 1992 the Sierra Club and other conservation groups mounted a grassroots lobbying campaign to put the wetlands issue back into the hands of scientists. A month later they celebrated their success: the House appropriations bill included a \$400,000 National Academy of Sciences wetlands study, and a statement that the Corps' 1987 manual should be used until the study is complete. Mired in defensive actions for the past two years, wetland advocates see the NAS study as a turning of the tide—a long-overdue chance for the nation's experts to think more broadly about the problem of disappearing wetlands.

WE ARE STILL LOSING WETLANDS AT A rapid rate. It's partly because farming is exempt from Clean Water Act protections, but also because existing regulations don't treat wetlands as part of a wider world. While wetlands are connected by ecological threads, development permits are granted in a piecemeal fashion. No one is doing the essential job of planning for wetland and wildlife needs within entire watersheds.

The truth is, we have no national wetlands policy. We have a patchwork of laws, woven from judicial review, statutes, regulations, and executive orders. Without some broader view, embraced by the public as well as our new Congress and president, it's not likely we'll stop the loss.

While the public generally agrees that wetlands are worth saving, it still does not understand them. It's hard to get people to see that it isn't just the sheen of sunlight on water that identifies a wetland, but the special adaptation of plants to a unique and unseen underground world. It's hard to get people to see that even though the land may seem dry, seasonal floods or moisture beneath the surface may be critical to lives miles or continents away, where migrating geese may come to roost or fish to spawn.

Not far from his California hillside, Terry Huffman points out a scene that suggests the beginnings of change. Here county officials have protected a tidal channel as a park. The surrounding housing turns decks and picture windows to the mud and pickleweed. "People want this," he says. "They're starting to realize that if you put a shopping center here, it's a short-term development."

Residents in this community are going beyond the metaphor of mud as degradation to an understanding of wetlands' ecological and economic values. That's a good place to start. ■

PETER STEINHART is the author of *Tracks in the Sky: Wildlife and Wetlands of the Pacific Flyway* (Chronicle Books, 1987) and *California's Wild Heritage* (Sierra Club Books, 1990).

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CENTRAL AMERICA

Continued from page 49

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We sleep in the old house on the hacienda—home to 10,000 squeaking fruit bats—that will someday serve as park headquarters. After this the fresh air of the mountain trail smells particularly clean. It carries the *coa coa coa* of the trogón, and the softer answering warble of another unseen bird. At arm's length are waxy-leaved vanilla vines, while trailside trees host filamentine white orchids, each holding its perfect drop of water. At our feet are ferns and bamboo grass and a two-way highway of black leaf-cutter ants conducting their own deforestation project; they have cleared one rise until it looks like an Arabian dune.

Our path through the mountains joins a trail hundreds of years old, with walls of red clay rising up on either side to a height of eight feet. It feels like walking through a tunnel, or being a leaf-cutter ant looking up from a furrow in the soil to the trees overhead. Near the park entrance this morning a guard named Pedro saw a jaguarundi creep to the edge of the adjoining town and carry a baby chick back into the woods. Later we will see great crested curassaws, their mahogany-colored feathers overlapping with the effect of Persian paisley. There are more species at El Imposible than in the entire continental United States: mountain lion, ocelot, boa, and wondrous birds like the emerald toucanet, the laughing falcon, the spectacled owl . . .

"And don't forget *siete camisas rojo* and

amarante silvestre, trees so far discovered nowhere else," says Juan Marco Alvarez that night, as oil lamps are lit in the hacienda kitchen. Alvarez is proud of the park, a joint venture between the government and the private foundation he directs, the El Salvador Ecological Foundation. In fact, El Salvador has so little money for parks that if it weren't for FESA (supported by some of the country's biggest businessmen), El Imposible might have remained unprotected. During the ten years of civil war that followed its creation on paper in 1982, the park guards, themselves local peasants and former hunters, had no contact with the capital except for modest paychecks in the mail. Yet they took their jobs to heart, attempting to protect the place by talking armed men out of the park "gently, because we know they were hunting out of hunger." It was only last year that FESA finally assumed management. On the day we visited, Alvarez distributed much-needed khaki rain ponchos, which the guards quickly pulled on to complete their uniforms—another gift from the businessmen. (When the guards needed boots, one of the patrons talked the Minister of Defense into donating some from army stocks.)

As he speaks in the half-light of the smoky room where our dinner of beans and rice is cooking on a wood fire in the corner, it is hard for me to realize that this is the same Juan Marco I have seen looking like an executive in San Salvador. His European features and crisp appearance say that he might be more at home with his country's elite than here in the sloshy outback, where he spends weekends away from foundation offices on his own time and money. Like many of his generation, Juan Marco left El Salvador during the war, in his case to study business administration in Costa Rica. There he "happened to take a walk in Corcovado," the 100,000-acre national park on the Osa Peninsula, and (as Ugalde might put it) "got hooked." Today I watched him leap from his pickup at the schoolyard in San Miguel to deliver metal poles with cement bases (liberated from his father's warehouse, he

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sheepishly admitted) to help repair a fence. San Miguel is the community that abuts the park's eastern entrance, he said, "so we're going to need good relations."

Late one afternoon I go with Juan Marco in his pickup to visit the park's western entrance. It would have taken us a day or two to walk there, but by using public dirt roads outside park boundaries we make the trip in an hour. While he attends to other business I walk into the park, spying a few huts deep among the trees.

This is where Catarina Jimenez and the squatter families live in distrust of the very idea of the park, an attitude born of years of government neglect. It's a place where a little effort at environmental education might go a long way. After all, residents like Jimenez often have a pride in the wild area as strong in its way as that of Alvarez: the first thing the Jimenez family wants to show me is the beauty of the rushing, sparkling river that runs by their house. Nevertheless, the rocks on its edge make good washboards, and the flow is fast enough to rinse out the soap well. Jimenez' husband goes off to work his cornfield inside the park boundaries.

"Does he use fertilizer?"

"Of course. How else would anything grow on soil so thin?"

When locals use the word "park," it is clear they imagine an urban green space with paved walks and kiosks. "It's wonderful to see people coming to visit, but when they ask us where the park is, we have to tell them 'You're already in it!'" says Dora Fuentes, Jimenez' mother—who believes it shouldn't be that way. "I wish they'd let us set up a little food stand on the road," the neighbors say.

Environmental education is widespread in urban areas, where people are more likely to be literate, or at least watch television. It is promoted by hundreds of grassroots conservation organizations, and by governments themselves. In the countryside, however, where the parks are, the message is slow to arrive. That is what makes the person-to-person work of Hector

Gonzalez and activists like him so important. Traditional rural residents who are willing, sometimes aching, to be part of a wider world might be among the park-makers' best allies—but what conservationists know must be shared with them.

"If they would let us stay, just in this tail-end of the park, we could contribute by picking up trash from the road," volunteers Catarina Jimenez. What would she do with it? "We'd just throw it over there in the ravine, out of sight."

WHEN DARK FALLS at Tortuguero, on Costa Rica's Caribbean coast, the turtles begin to come up from the deep, riding the surf, then make their way slowly but resolutely across the beach to the line where green plants meet the sand. At only one place on the 22-mile-long nesting ground is there light from an old generator, some faint music from a thatch "disco," and the general store that boasts the town's only telephone. The rest of the beach is dark,

especially when clouds move across the rising full moon.

Until the 1950s, residents might have worked as turtle-turners, one for every mile of beach, paid to turn the animals onto their backs, then tie logs like buoys to their flippers and float them helplessly out to collection barges that sailed up from the port of Limón. Today, 95 percent of Tortuguero's population of 500 depend on tourism or on providing services for naturalists. It is close to the park-makers' ideal of symbiosis between protected areas and the surrounding communities.

"Here one lives for the turtle," says 41-year-old Pastor Centeno, whose daughter is one of about 40 licensed guides to the nesting grounds. Centeno has expanded his house into a ten-room pension for budget travelers. "We know the turtle is part of the nature the tourist comes a long way to see—we're almost always full on weekends." Other than the three turtles the community is allotted per week, says Centeno, "We don't eat *la tortuga*."

That doesn't mean the turtles are safe. One crystalline morning I watch boat traffic coming out of the navigable streams and down the canal—the nearest road is hours away—and wait for the park director, Eduardo Chamorro. Alerted by radio, he had sped off to track a poacher and arrest him if he could. Meanwhile the oropendola nests hang heavy with eggs in the still air; a raft of water hyacinths glides by like an island searching for a place to take root. In the streams that run like veins through the mass of trees across the canal, the water is sometimes the color of strong tea, rich with decomposing jungle, at other times blue-green and clear. Suddenly Chamorro's motorboat appears as if out of nowhere to break the peace: two park guards sit forward, their rifles at the ready, looking deadly serious.

"He got away," is all Chamorro will say.

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To receive semimonthly updates on the Club's regional, national, and international conservation campaigns, subscribe to the *National News Report*. Request a free sample issue and subscription information from the Campaign Desk at the above address.

A FIELD

"Hearth & Home," page 20

For more information about houseplants as biological air filters, contact the Plants for Clean Air Council, 12200 Sunrise Valley Dr., Suite 150, Reston, VA 22091; phone (703) 620-6699.

"Body Politics," page 23

To find out what lurks in your water, contact the National Testing Laboratory, 6555 Wilson Mills Rd., Cleveland, OH 44143; phone (800) 458-3330. A complete test kit and results cost \$129.

DEPARTMENTS

PRIORITIES

Wilderness Highways, page 30

Inform your senators and representative about the RS 2477 giveaway; ask them to call for an immediate moratorium on right-of-way assertions until the system can be overhauled.

Further information about RS 2477 and other wilderness issues affecting Utah may be had from the Southern Utah Wilderness Alliance, 1471 South 1100 East, Salt Lake City, UT 84105-2423. SUWA publishes a quarterly newsletter, available for \$25 a year. Ask for the Winter 1991/1992 issue, which has a detailed story on RS 2477.

Salvage Logging, page 32

Ask your representatives to oppose fast-track salvage logging as a prescription for ailing forests. Urge them to support strategies for restoring natural processes.

At Risk! Oregon and Washington's Eastside Forests is a nine-page overview of problems and solutions, available for \$2 from Sierra Club Public Affairs, 730 Polk St., San Francisco, CA 94109.

FEATURES

Tatshenshini, page 34

A resolution to protect the Tatshenshini failed to pass in the last session of Congress, and is expected to be reintroduced. Urge your senators and representative to become co-sponsors; stress the catastrophic downstream effects on the U.S. side of the border from acid mine drainage.

Confluence is an occasional newsletter published by Tatshenshini Wild, Box 843, 810 W. Broadway, Vancouver, BC, V50 4C9. Donations are welcome.

A Sierra Club outing on the Tatshenshini is scheduled for June 21-30. For details, see page 69 of the Outings catalog in this issue.

A variety of private outfitters also conduct float trips on the Tatshenshini and Alsek, among them Canadian River Expeditions; phone (604) 738-4449.

Kayaker Ken Madsen has written extensively on the area; his *Rivers of the Yukon, a Paddling Guide* (\$17.95) and *Tatshenshini Wilderness Quest* (\$12.95) are available from Primrose Publishing, 21 Klondike Rd., Whitehorse, Yukon, Canada Y1A 3L8.

Central America, page 42

A 28-minute film, *Environment Under Fire: Ecology and Politics in Central America* (1988), is available for rent or purchase from The Video Project; phone (510) 655-9050 for ordering information.

Recommended books include:

The Quetzal and the Macaw: The Story of Costa Rica's National Parks by David Rains Wallace (Sierra Club Books, 1992).

Roots of Rebellion: Land and Hunger in Central America by Tom Barry (South End Press, 1987).

1872 Mining Law, page 50

Activists should write to Representative Nick Rahall and Senator Dale Bumpers and urge them to continue their efforts to

reform the 1872 Mining Law.

To place your name on the Sierra Club's mining-reform list, write to No More Free Lunch, c/o Kathryn Hohmann, 408 C St., N.E., Washington, DC 20002.

The nonprofit Mineral Policy Center works with community groups on mining problems. For information about membership, which includes a subscription to the organization's lively occasional publication, *Clementine*, write to the MPC, 1325 Massachusetts Ave., N.W., Suite 550, Washington, DC 20005.

The Mining Law: A Study in Perpetual Motion, by public-lands scholar John D. Lesly (\$26, available from Resources for the Future, 1616 P St., N.W., Washington, DC 20036) is an exhaustive yet entertaining analysis of the 1872 statute.

Wetlands, page 54

For an overview of the Sierra Club's wetlands campaign, ask the Public Affairs Department (730 Polk St., San Francisco, CA 94109) to send you a two-page wetlands fact sheet (\$1).

How Wet Is a Wetland: The Impacts of the Proposed Revisions to the Federal Wetlands Delineation Manual (Environmental Defense Fund and the World Wildlife Fund, 1992) offers a detailed analysis of federal wetlands politics. Copies are \$20 each from Publications Dept., EDF, 257 Park Ave. South, New York, NY 10010.

Consumerism, page 60

"50 Simple Things You Can Do Instead of Shopping" is one of the articles from the "What Is Enough?" edition of *In Context* magazine (Summer 1990), available for \$6 from P.O. Box 11470, Bainbridge Island, WA 98110.

David Shi's *The Simple Life: Plain Living and High Thinking in American Culture* (Oxford University Press, 1985) is a history of voluntary-simplicity movements in North America.

The New Road Map Foundation (P.O. Box 15981, Seattle, WA 98115) is a resource for activists and others grappling with our society's "addiction to affluence." Vicki Robin, the foundation's president, has co-authored (with Joe Dominguez) *Your Money or Your Life* (Viking, 1992), which emphasizes the environmental implications of this addiction. ■

reaches all the way up to the border (where, in the dreams of conservationists in both countries, it will someday connect to a park on the Nicaraguan side). In Tortuguero each guard does everything, from public education to peeling vegetables for the noon meal. I've seen Chamorro, director or not, on surprise beach patrol in the pre-dawn hours, and later picking up cigarette butts and stray wrappers. He is from Tortuguero, and began as a volunteer helping scientists 17 years ago.

"At first nobody wanted the park, because it prohibited everything we were used to, including cutting wood. Everything we ate came from the forest or the beach," he says. Nobody saw the point of a park. For a few years, the only tourists who showed up "looked lost."

But the green-turtle research that started in 1954 with conservationist Archie Carr continues steadily, volunteers and scientists waiting watchfully through the night, pulling on white plastic gloves to count as many as 150 eggs as they are laid, tagging and sometimes weighing turtles (400 pounds and more). Tortuguero became a park by law in 1975. Tourism has grown. Townspeople increasingly "see the park as part of themselves," as Chamorro says. The turtles survive.

Before I leave I want to spend an entire night on the shore. I watch some turtles emerge only to make "half-moons," named for the crescent trails their flippers leave as they travel onto the beach, then return to the ocean without laying eggs, to await another night. No one can quite explain this hesitation, whether they are spooked by some sound or light or short-circuit in their biological clocks. No one knows why the turtles come here at all.

Near midnight, a massive animal comes to shore and ploughs toward the vegetation line—imagine swimming the butterfly stroke through unyielding sand. Methodically, she digs a pit about two feet deep, and sets to laying translucent eggs slightly bigger than golf balls. The bright full moon has come from behind the clouds, limning the sharpest waves and the clouds

themselves, spreading a light that the turtles don't like. But this one is too far into the birthing process for anything else to matter. The light is enough to see what I had been warned I might, but still it startles: tears stream from the turtle's eyes.

By the time she covers the eggs in their pit and starts off down the beach again, a couple of hours have passed. Can I put my hand on her shell before she is gone, just for a moment? Where the wet sand begins, she slows. Her

back is hard, and feels incredibly old, as if connected to a world unchanged for thousands of years. When she crawls away from under my hand I see that her shell must have been covered with plankton, because my fingers leave luminescent trails like tiny stars that disappear with her into the sea. ■

MARY JO MCCONAHAY is *Central America* editor for *Pacific News Service*.

► For more information, see "Resources," p. 156.

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Wringin' in the Rain

Despite 120 years of improvements since the debut of the world's first mass-manufactured raingear—bleached canvas soaked in linseed oil—the perfect piece of outerwear is as elusive as cereal that won't get soggy in milk. Today you can shell out \$400 and still get wet in your periwinkle HydroTechnoPro parka if you don't understand the fabric's limitations and care requirements.

Effective raingear for active people must perform two opposing functions: keeping rain out while allowing body moisture to escape. Whether you get wet from within or without, the effect is the same: chill that could lead to hypothermia.

The least-expensive raingear is the plastic poncho. It's waterproof, with a loose fit that provides ventilation. But these glorified shower curtains are effective only in windless rains. In *real* weather, a poncho will billow around your face, leaving you soaked and stumbling.

The next step up is waterproof raingear made of nylon coated with urethane, PVC, or other impermeable material. These perform well when you're at rest, but if you build up a sweat, it's nearly impossible to prevent moisture from soaking your insulating layers.

Enter the "waterproof-breathables," outerwear that allows sweat vapor to escape while preventing rain from sneaking in. By coating or bonding high-tech materials to the inside of nylon fabrics, man-



ufacturers say they can keep you drier longer. Products like H₂No Storm, Entrant, Ultrex, and Helly-Tech Ultra use a microporous urethane coating laced with millions of tiny pores. In theory, these pores are larger than a molecule of water vapor but smaller than a droplet of liquid water. Products like Sympatex and Sierra Design's HP use a nonporous coating that absorbs water-vapor molecules on the side with the greatest heat and humidity (next to your body), and releases them on the cooler, drier side (toward the outer fabric). Gore-Tex, the granddaddy of waterproof-breathables, is a membrane that incorporates both types and is laminated to one or two layers of fabric.

Some waterproof-breathables will withstand water pressure of 100 pounds per square inch or more. Cynics note that if you get hit by that much water, you'll need a full-body cast, not a raincoat; defenders reply that such high impermeability is insurance that the fabric won't lose its effectiveness after a dozen washings.

Between sweat and a wet place: the quest for outerwear that will keep you dry and cozy.



Even Gore-Tex's competitors admit that the ultra-expensive original is at the top of the heap. Before heading out on my own low-tech breathability test, I strapped a urethane-coated gaiter on one leg and a Gore-Tex gaiter on the other. After several snowshoe hikes, condensation coated the inside of the non-breathable gaiter, while the Gore-Tex gaiter stayed dry.

But no fabric will keep you bone dry while hiking fast in heavy rain. Cold rain chills the surface of any raingear, increasing condensation. You can help by avoiding overheating and by renewing your gear's water-repellent outer surface periodically. Water beads up on well-maintained fabric instead of coating it, enhancing its breathability. Some manufacturers recommend ironing or tumble-drying to renew the original factory-applied finish, but eventually you'll need to apply a waterproofing spray like Scotchgard.

Good ventilation is critical to effective raingear. The best jackets have plenty of vents, including "pit zips" and even mesh-lined pockets that "breathe" when unzipped. Moisture-wicking linings such as DriClima, Dryline, and Hydrofil add warmth and spread out condensation, making the inside of a jacket feel drier. One place you don't want ventilation is in the seams: every needle hole is a potential leak point unless you buy a garment sealed at the factory or seal it yourself.

The best fabrics and the cleverest features cost plenty. To avoid overkill, consider your intended uses. In the desert or the summer Sierra, you probably don't need a top-end jacket. In wintry Colorado, with precipitation conveniently packaged as dry snow, a waterproof garment is even less essential. If you're careful to avoid overheating, near-waterproof gear that's only slightly breathable will suit you well. But if you plan to be active under all conditions, the more sophisticated your outerwear, the longer you'll want to dance in the rain. ■

GLENN RANDALL is the author of *The Outward Bound Map and Compass Handbook* (Lyons & Burford, 1989).

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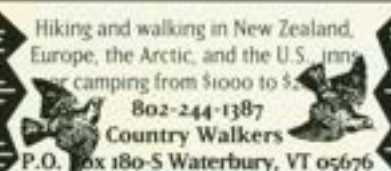
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Counter with the truth! Shed light on the fact that Wise Users hypocritically back government giveaways of our timber, water, and rangelands. Always promote the fact that the overwhelming majority of the scholars and professionals in ecology, biochemistry, and the atmospheric sciences resoundingly refute the Wise Use claims as completely unsubstantiated.

*Bruce Hunner
Arcata, California*

Expose it for what it is: a carefully crafted alias for a gang of environmental rapists and far-right extremists with a policy agenda that would horrify most citizens.

*Richard A. Resettitz
Edmond, Oklahoma*

Fear, ignorance, greed, and anger are powerful opponents. We need to recruit more of our friends and neighbors to the environmental movement, write letters to the editor, and besiege senators and representatives with mail and phone calls on important environmental legislation. We should refuse to purchase goods from companies that support "Wise Use." We should warn people not to join or donate money to any so-called environmental groups that front for the Wise Use movement.

*Lara Beard
Elizabethtown, Kentucky*

Greed will make the Wise Use movement self-destruct. We can hasten the process by continuing to report on its activities and by paying attention to those who are in it only because "no one else would listen."

*Robert F. Jones
Warren, Michigan*

There are two kinds of Wise Users, and our response should play on this. Wise Use leaders are the movement's True Believers. They hold positions most people find wildly extreme, they denounce science that does not support them, and they practice doublespeak. Blinded by ideology, the True Believers will never come around.

But the ranchers, loggers, farmers, and small-business owners who make up the Wise Use rank-and-file are different. These are honest people whose livelihoods are threatened, and they are scared. They join the anti-environmental movement because they have been told we are their enemies. But they have been misled.

We must appeal to this second category. Our people must go out and put their fears

HOW CAN THE WISE- USE MOVEMENT BE COUNTERED?

to rest, ask for their opinions, tell them we care about them, and ask how we can work with them to preserve their livelihood. We must show them the extremism and fundamental dishonesty of their leaders, show them how environmentalism can (and already does) help them. We must also be ready to admit that not everything done in the name of environmentalism has helped them. Then we must show them environmentally sustainable ways to operate, and help them move in that direction.

We can pull the rug out from under the Wise Use generals by luring away their troops. Our best weapons in this effort will be truth, understanding, flexibility, and innovation.

*John Moyers
San Francisco, California*

If we could send the Wise Users to the Holy Land to see firsthand what 5,000 years of "wise use" has done to the landscape, that would be a start. What was once "the land of milk and honey" is now a barren wasteland, due to the cumulative effect of two "wise use" practices: over-grazing and over-cutting of trees. Unless the loggers and ranchers want to become stone masons and goat herders, they had better "wise up" to their "wise-use" practices.

*Peter Wilson
Phoenix, Arizona*

One way would be to publish a listing of all the special-interest groups that belong to the movement, and provide it to the press, government officials, and any grassroots environmental groups that want it. Show

who really runs the Wise Use show: the ORV manufacturers, the mining industry, the cattlemen, etc. Then the American people will see that this isn't a populist movement at all, but rather another desperate escapade by powerful business interests who have no real concern for the people they claim to protect.

*Alfred S. Valvano
Taylor Mill, Kentucky*

The Sierra Club should immediately issue a public challenge to the leaders of the so-called Wise Use movement to a series of well-publicized forums and debates.

*Robert Fuit
Bellingham, Washington*

The Wise Use movement is based on the religious idea of man's dominion over the earth. The only way to counter this is to point out, at every opportunity, the irrelevance of religious dogma to modern life.

*Thomas Fugate
Frederick, Maryland*

In the view of its opponents, the environmental movement is not presenting a balanced view of how to best live in harmony with the natural world. To be sure, it offers many sound views and approaches. But it also adopts many extreme postures, which claim media attention and dominate the movement's public persona. In a sense, the environmental movement itself is a cause of the Wise Use movement. We must learn to recognize when we have gone too far, and to make corrections accordingly.

*Bryan James
Lakeswood, Colorado*

Focus more attention on the tax money being spent to subsidize Wise Use special interests. From below-cost timber sales in Tongass National Forest, to grazing subsidies in the southwestern deserts, to the outrageous giveaways to sugar growers who are polluting Everglades National Park, our natural heritage and our tax dollars are being squandered in order to perpetuate the entrenched Wise Use welfare state.

*Ross Myers
San Diego, California*

Grassroots perseverance and determination will counter the Wise Use movement, just as it has gotten us over the many other hills we have had to climb as environmentalists.

*Megan Scott
Butler, Wisconsin*

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