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# SIERRA

THE MAGAZINE OF THE SIERRA CLUB • JANUARY/FEBRUARY 1994

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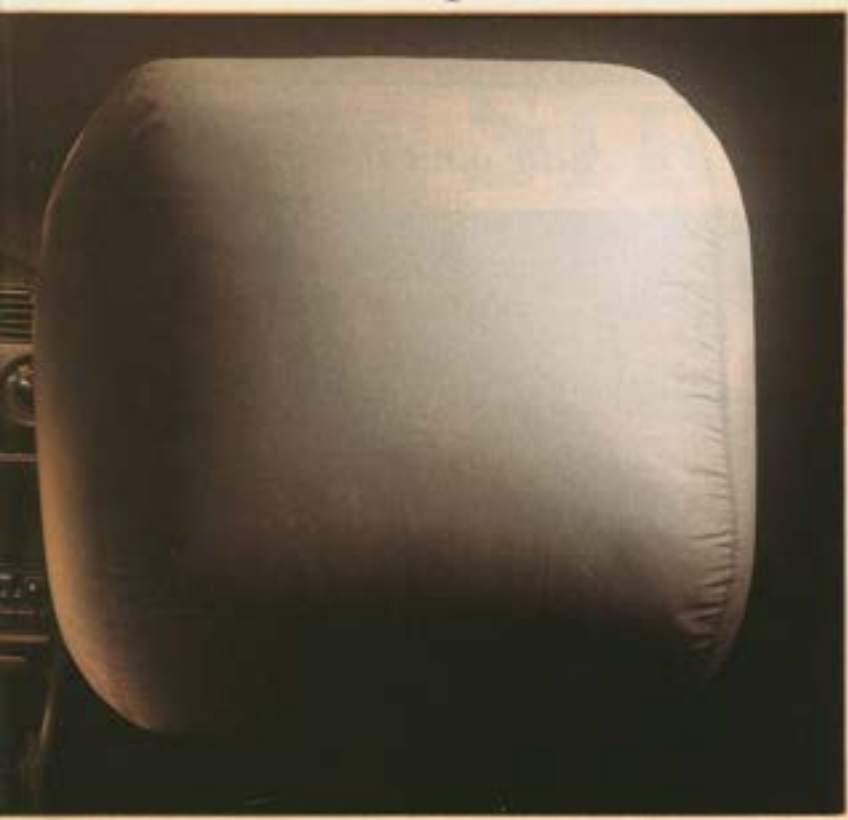


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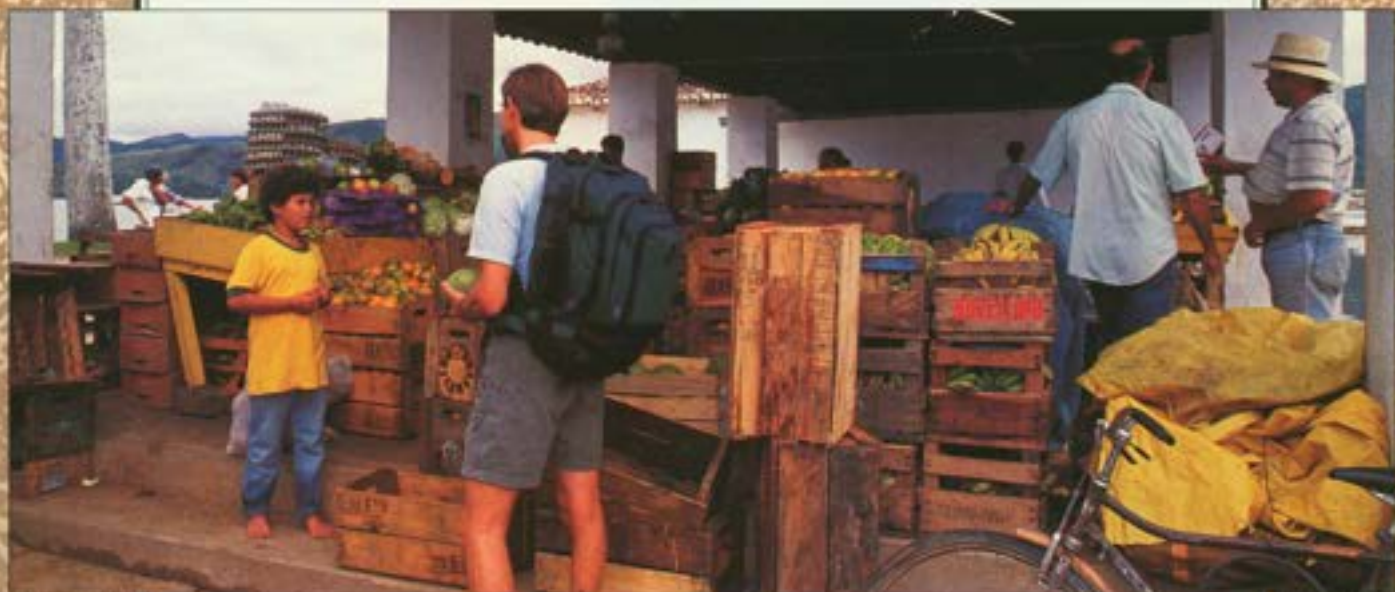


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THE MAGAZINE OF THE SIERRA CLUB

## FEATURES

44

### BEFORE THE FALL

In the far reaches of British Columbia stand trees that have graced this continent for millennia. Known only to loggers, their very obscurity may ensure their doom.

50

### BOTANICAL BARBARIANS

Close encounters of the disturbed kind: when plants from other worlds invade native ecosystems, the results can be downright nasty.

*by Robert Devine*

58

### MEA PULPA

Producing an environmentally correct magazine is tougher than rejecting pages that reek of perfume. At *Sierra* we've examined our own ink, glue, and fiber, and committed ourselves to change.

*by John Byrne Barry*

64

### THE THROES OF KILIMANJARO

Diamox? Check. Laptop? Check. Halcion? Check. Aretha tapes? Check. This climber's gear is distinctly contemporary, but his adventure is as timeless as Africa itself.

*by Richard Bangs*

73

### SIERRA CLUB 1994 OUTINGS

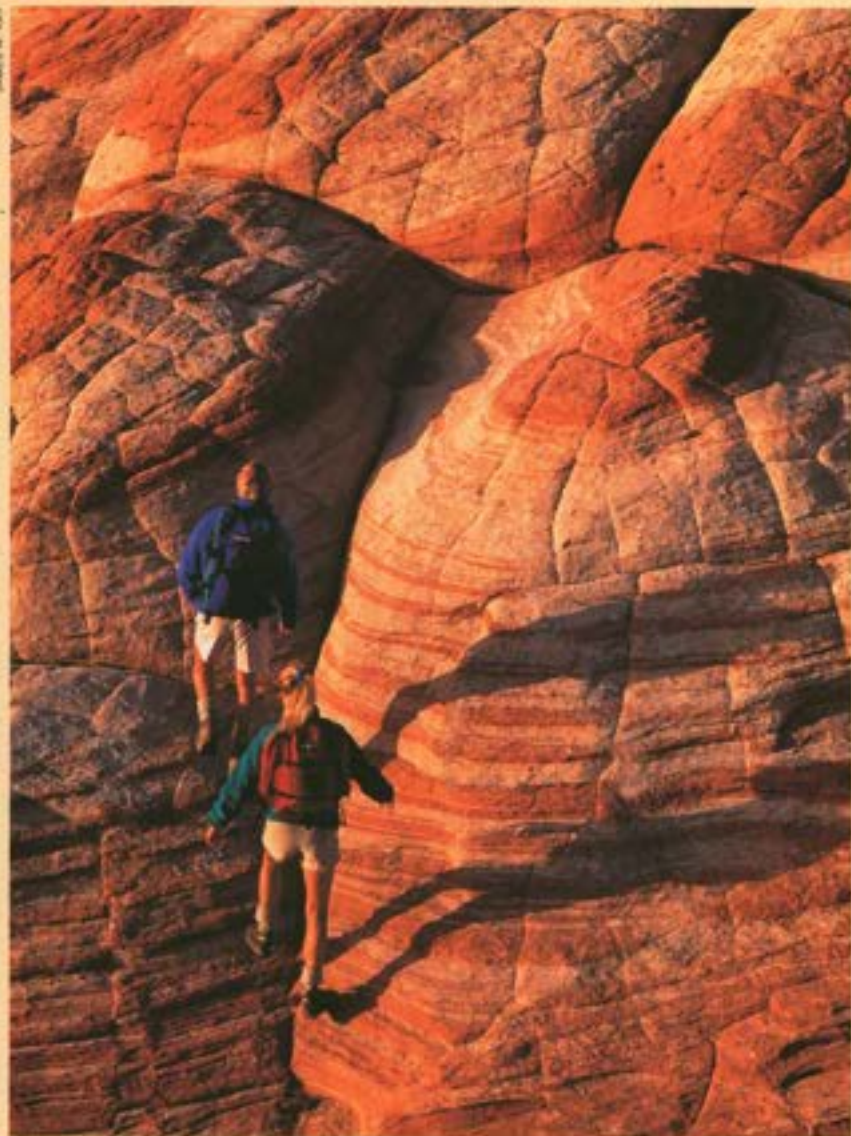
Here, there, and everywhere.

JANUARY/FEBRUARY 1994 • VOL. 78/NO. 1

CONTINUED

# SIERRA

JAMES W. VAY



Sierra Club Outings, page 73

## A FIELD

### 18 • WAYS & MEANS

Is it hot in here, or is it just us?  
*Carl Pope*

### 19 • GOOD GOING

Flee the grim scree with a dram  
*Paul Rauber*

### 22 • BODY POLITICS

Physician, heal thy planet  
*Michael Castleman*

### 24 • HAND & EYE

Found horizons  
*Hannah Hinchman*

### 26 • HEARTH & HOME

A better big, cold box  
*Marc Lecard*

### 28 • WHEREABOUTS

Stars underfoot in upstate New York  
*M. Garrett Bauman*

## DEPARTMENTS

### 10 • LETTERS

### 17 • CLUBWAYS

### 30 • PRIORITIES

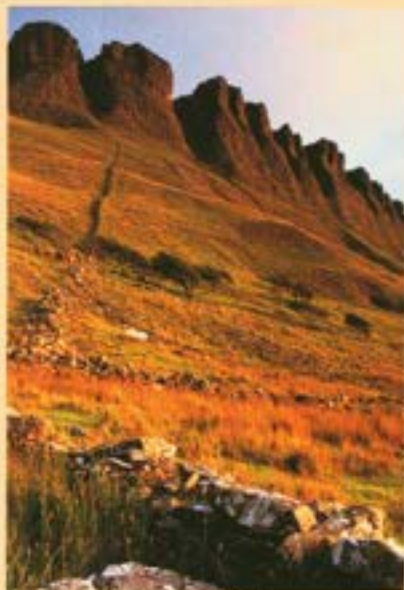
- The risky business of pesticide reform
- New bureaucrats talk a good fight
- Cowboy counties: don't fence them in

### 72 • RESOURCES

#### COVER

Mountain hemlocks and  
Wizard Island, Crater Lake  
National Park, Oregon.

*Photo by Larry Ulrich*



Ireland's hills and fields, page 19

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# Suddenly I was embroiled in a heroic struggle with breakfast.



I'd come for a getaway from my Monday through Friday, bacon and eggs, sit in gridlock, punch-the-clock life. I got away. The fish wasn't so lucky.

When I was a boy, my Dad and I came here a lot. Just the two of us. A lot of fishing and man-talk. I miss him, but the joy my daughter and I share is every bit as warm. Here. In this place we've come to call, very simply, "ours." Where we are embraced by nature.

Perhaps that sunrise showdown between fish and father wasn't all that epic, and maybe the fish didn't hang over both sides the old black skillet. Yet with every retelling of our story the fish gets bigger, and I can't help but notice that my daughter's giggles have suddenly become much deeper.

But time has a way of doing that.

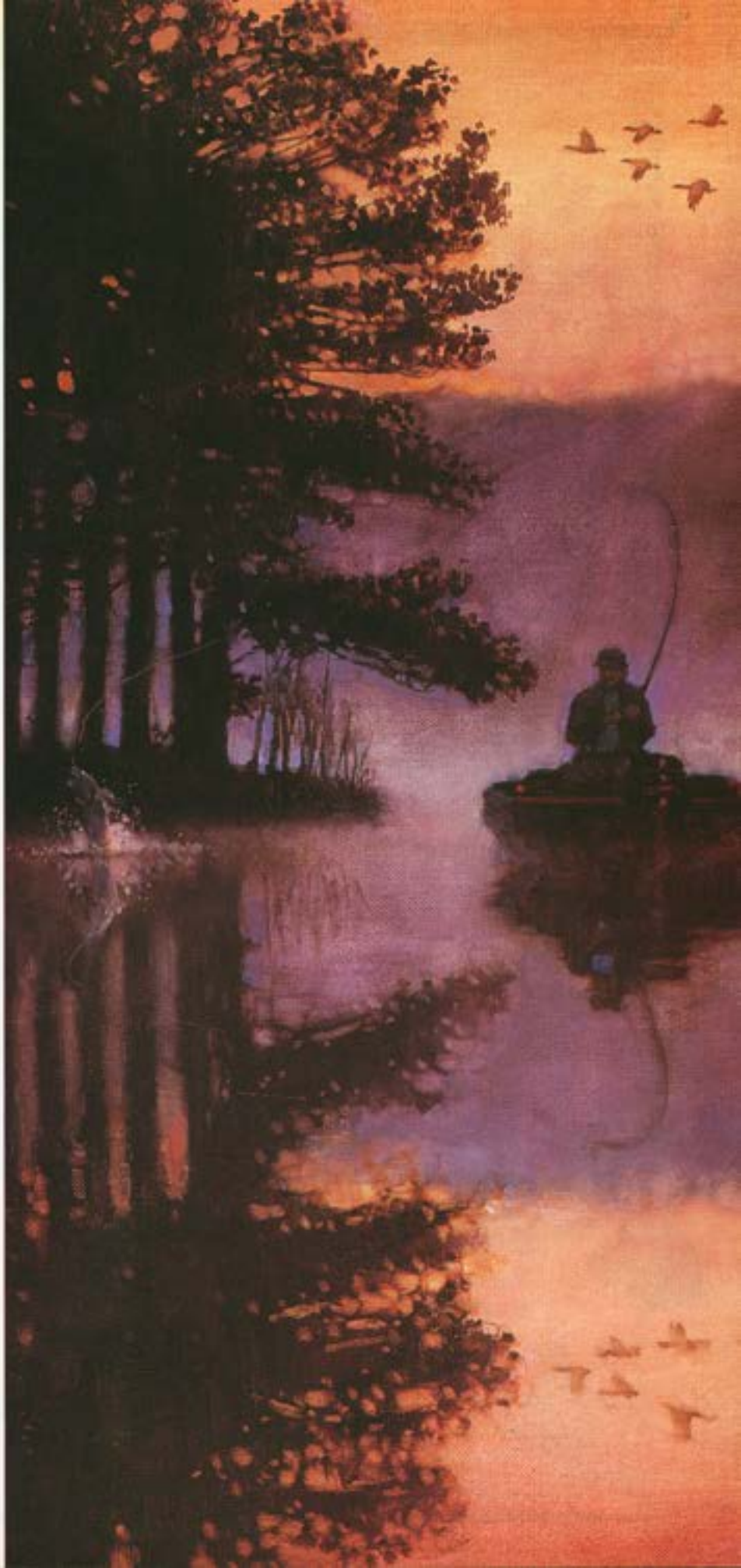
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*William Henderson remembers sunrise in Northern Mississippi.*



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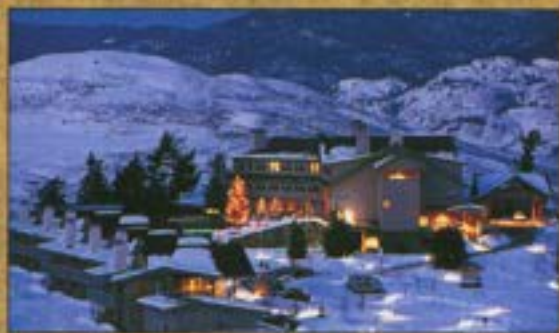
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## IN SICKNESS AND IN HEALTH

I broke down and cried within the first two paragraphs of Michael Castleman's article about multiple chemical sensitivity ("This Place Makes Me Sick," September/October). It felt like a huge weight was lifted from my shoulders to have this condition validated.

Because of my chemical sensitivity I had to leave my job, cash in my retirement fund for living expenses, and see my income drop drastically. I have had doctors roll their eyes, tell me it's in my head, and ask if I sniff paint for a high or drink alcohol in excess.

But there is hope. Some of us are lucky enough to have understanding spouses, friends, and employers. Of course, we still carry our respirator masks, can't paint our homes, and have to leave restaurants and other establishments if the chemical exposure is too intense.

Thank you for publishing this important information. It gives me comfort to know I am not alone.

Patrick Miles  
Portland, Oregon

Castleman manages to marginalize two groups of people. First he denigrates those with psychological disorders by calling them "cuckoo." Then he postulates that the people who claim "multiple chemical sensitivity" must be right, presumably because the main organized bodies of physicians do not find credible evidence of the validity of this syndrome. Suspicions of the mentally ill and of scientists often go hand in hand in popular consciousness. It is precisely because there is a stigma associated with psychiatric conditions that many people need to find physical causes for their ills. The fact that they have actual physical signs of illness does not mean that the causes are purely physical. Castleman is wrong when he says that somatoform disorder is "all in your head."

I had hoped that *Sierra* would avoid

the knee-jerk response of implicating chemicals for unexplained ills. That is not to say there is no such thing as sensitivity to environmental chemicals; but for most of the people I have seen with the label, the symptoms were more readily explained in other ways. And the practitioners of clinical ecology I am acquainted with have behaved more like dogmatists than scientists.

George Dyck, M.D.  
Newton, Kansas

The way to test whether an individual has multiple chemical sensitivities would be to expose that person to the suspected substance(s) and see whether symptoms of illness occurred. The fact that no group of people claiming to have MCS has been shown to reliably distinguish chemicals from placebos is the reason MCS is not widely accepted by physicians.

Although Castleman argues that illnesses and treatments once discounted by doctors are occasionally later accepted, there are many more instances in which unconventional therapies have been shown in placebo-controlled trials to be useless. The example of laetrile, an extract made from apricot pits and touted as a cancer cure, comes to mind. Despite the anecdotal claims, the danger of uncritically treating people for "unrecognized" syndromes like MCS is that such individuals may be sidetracked from seeking treatments that, with patience, may offer more genuine hope for improved health.

Eli Eisenstein  
Washington, D.C.

## ROUGH TIMES

Paul Rauber's attack on Keith Schneider of *The New York Times* ("Priorities," September/October) was unfair to a reporter who in the past has written some hard-hitting articles exposing environmental degradation. Most importantly, Rauber missed the valuable lesson Schneider was trying to convey in his five-part series last year. Schneider

made the point, correctly, that many now question whether the environmental movement has perhaps diverted too much of the nation's resources into fixing certain problems while ignoring others. Many ardent environmentalists believe, for example, that the nation should spend more money on protecting vast tracts of wilderness than on scrubbing certain hazardous waste spills almost absurdly clean. These are fair questions that deserve careful debate, not ridicule.

Jock Friedly  
Menlo Park, California

Paul Rauber's report was right on the mark, but there is more to add. *The New York Times* calculates the total cost of U.S. environmental expenditures to the public and private sectors at \$140 billion a year. This number has some validity, because various analysts come up with similar figures. But it should be made clear exactly what it entails. About 45 percent—or more than \$60 billion—is spent on water delivery and treatment, solid-waste handling, and wastewater treatment. These are basic services that no civilized, healthy society can do without.

The remainder is spent on a variety of cleanup and protection projects that accomplish far more than a reduction in cancer risk. The money protects wildlife, preserves habitat, conserves resources, and provides some standards for clean water, air, and land. All of this not only improves our quality of life immeasurably, but helps to pass on a natural legacy.

I agree with the *Times* that occasionally we spend money foolishly trying to eliminate an extra part per billion of one toxin or another. But to reduce all of the benefits from environmental expenditures to cancer protection is grotesque, and represents a failure to see the forest because one's face is jammed up against a tree.

Robert Steuteville  
Emmaus, Pennsylvania

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*She's the color of autumn.*

# CHILD OF

*But she's never been out of the city.*

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### WHOSE HUDDLED MASSES?

In his review of Garrett Hardin's insightful book *Living Within Limits* ("In Print," September/October), Mark Mardon errs in stating that Hardin's vision "ignores more than 400 years of our very diverse ethnic history."

Native Americans and black Americans are the two groups in the United States that have been harmed most by immigration. As Frank Morris, a black educator, has stated: "For over 100 years, immigrant labor has helped keep wages low and working conditions poor for black Americans. . . . If all races paid the same price for immigration that black Americans have, there would be a lot less immigration." Native Americans were killed or pushed from one temporary reservation to the next. Why are Native and black Americans largely forgotten in the discussions of immigration and multiculturalism?

Hardin suggests that whenever policies are proposed we ask, "Who benefits? Who pays?" Our immigration policies may, in the short term, benefit certain employers, landowners, and others who compete relatively little with immigrants. Those who pay are those who are already on the lowest economic rungs in this country.

Steven C. Hill  
Las Cruces, New Mexico

Mardon's review ignores the central point of Hardin's book, which is that *time* and *numbers* matter. Even if a thing is good, like immigration or multicultural influences, it does not follow that doubling and redoubling the amount of that thing will forever be good. What then, Mr. Mardon, is the ultimate goal—a billion Americans? Is there some sort of prize involved?

Tom M. Andres  
Santa Barbara, California

Mark Mardon responds: *Whenever the U.S. economy has been on the upswing, "cheap" laborers from China, Mexico, and other countries have been welcomed—but once the economy sours, immigrants are usually vilified and deported. What victimizes black workers today is not the influx of immigrants, as Steven Hill implies, but the*

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flight of industry to other countries where labor is cheaper. In these uncertain times, some in the nativist movement are latching onto Hardin's ideas as a way of persuading Americans that immigration is primarily an environmental issue divorced from economic or social problems.

My criticisms of Hardin's book do not suggest support for endless growth in the United States. Mass migrations are symptoms of social, economic, and environmental catastrophes. To treat the symptoms by closing national borders to keep out "the disease," rather than commit ourselves to eliminating the causes of the illness, is both futile and irresponsible.

### POWER LAUNCHES

I was shocked to read that "almost half the energy that utilities generate is lost between the power plant and your outlet" ("Afield," September/October). I can guarantee that this statement is not correct for Florida Power Corporation (where I serve as a senior vice-president), and I doubt that it is true for any electric utility in the country. In 1992 we generated or purchased a total of 29,192 gwh (1 gwh=1 million kilowatt hours). We actually sold to customers 27,375 gwh, or approximately 94% of our total. The 6 percent not sold includes company use and electrical losses in equipment.

The merits of energy conservation should stand on their own without a misstatement such as this.

George E. Greene  
St. Petersburg, Florida

Our wording was indeed misleading. To set the record straight: according to the Department of Energy, more than two-thirds of the energy contained in the fuels used by electric utilities in 1991 was lost between the power plant and your outlet. For every 3 BTUs of fuel burned to generate electricity at most standard power plants, 2 BTUs are inevitably lost as waste heat and only 1 BTU is converted to usable electricity. As reader Greene notes, additional losses occur after generation; also in the equation are the hidden costs—the energy it takes to mine, process, and transport fossil and nuclear fuels, and to build the power plants, transmission lines, and substations. These

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losses demonstrate precisely why large-scale central-station electricity production is inherently wasteful.

#### DOWN AND UPS

It was terribly disappointing to see the Sierra Club's blatant hypocrisy so proudly displayed in *Sierra's* anniversary issue ("The Sierra Club Bulletin: 100 Years of Activism and Adventure," September/October). Included in the retrospective were two full pages on "The Climbers." You prominently displayed two pictures of climbers using ropes—ropes that are no longer allowed during Sierra Club outings. The Sierra Club, while taking great pride in its mountaineering heritage, has abandoned the current generation of climbers by failing to support proper training programs and outings that require the use of ropes and ice axes.

Wayne Norman

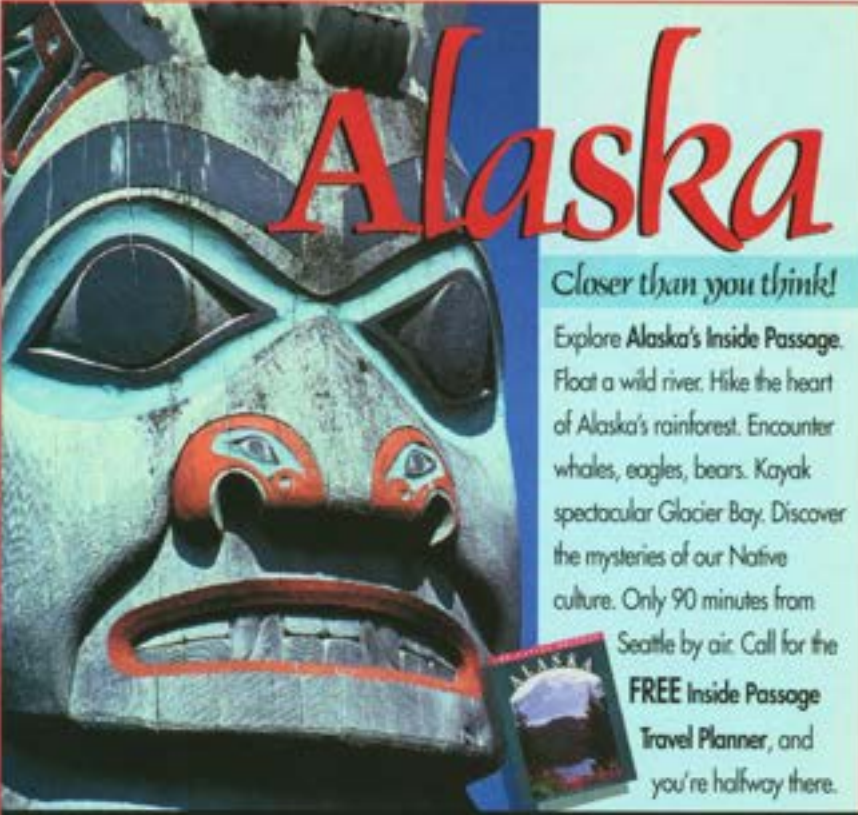
Sierra Peaks Section, Angeles Chapter  
Los Angeles, California

In 1988 the Sierra Club learned that the insurance premium covering its mountaineering and rock-climbing activities was going to go up nearly \$300,000. The Board of Directors decided, with great reluctance, that a shift of resources from other core conservation campaigns to a program utilized by a limited number of chapters was not in the best interests of the Club as a whole. Since then the Club has worked steadily to restore the coverage. This year the additional costs were brought down to less than \$100,000, and the Club will resume appropriately designed mountaineering programs involving ropes and ice axes.

#### CORRECTION

Author Donald G. Schueler's byline was inadvertently left off the title page of "Contract Killers," an investigative report on USDA's Animal Damage Control Program in the November/December 1993 issue. We regret the omission.

As Sierra welcomes letters from readers in response to recently published articles. Letters may be edited due to limitations of space or in the interests of clarity. Write to us at 730 Polk Street, San Francisco, CA 94109.



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Mark Mardon

## Madam President

Ever since John Muir waged his battles to protect the Sierra Nevada, his successors as president of the Sierra Club have been broadening the organization's environmental mission and expanding it across North America. No Club president has done more to move the Club onto the world stage, however, than Michele Perrault, now serving her third one-year term.

Shortly after Perrault was chosen by the Board of Directors in 1984 to serve what would become the first of two consecutive presidential terms (she was the first woman to hold the Club's top office since Aurelia Harwood in the late 1920s), she helped organize a move of the Club's International Program from New York City to Washington, D.C. That change of venue effectively shifted the program's focus from influencing environmental-policy decisions at the United Nations to bringing grassroots pressure to bear on Congress, the White House, and the international development banks. In another action with global implications, Perrault named Stanford University biologist Anne Ehrlich as chair of the Club's Military Impacts on the Environment Committee. Ehrlich's national reputation lent weight to the committee's work in organizing a citizen response to the ecological destructiveness of warfare. Many activists eagerly threw themselves into the cause, agreeing with crusading physician and social reformer Helen Caldicott that "every issue that Sierra Club people are worried about will cease to exist if they do not do something about the environmental threat of nuclear war."

Having been returned to the presidency last May following a seven-year stint as international vice-president, Perrault sees her mission as more challenging than ever. Today's activists

confront a whole range of global environmental crises with roots deeply embedded in seemingly intractable economic and social problems. One of Perrault's primary goals for the Club during this term, therefore, has been to train more members to speak up not only on behalf of their local communities, but for the whole earth. If the Club is to respond effectively to a world of



Sierra Club President Michele Perrault

fast-paced economic, societal, and technological changes, Perrault says, "activists will need confidence enough to stand up to those with more money and power." Perrault also wants the Club to be a key group in formulating a national strategy to ensure that any development proceeds along an environmentally sustainable path.

"Sustainability," a word Perrault uses frequently in articulating her vision, is tricky to define, she admits, in part because "in many cases, such as ocean fisheries, we're still waiting for the scientists to help guide us as to what real sustainability is." Nonetheless, she adds, "if people take the term to mean living in a way that protects the earth's natural resources for future generations, they have the right idea."

Perrault represents the Sierra Club on President Clinton's Council on Sustainable Development, working alongside Cabinet officials and corporate leaders to help shape government policies affecting such issues as climate change, ozone depletion, species loss, and transboundary pollution. Clinton formed the council last year in response to *Agenda 21*, the action plan that came out of the 1992 Earth Summit. The council's purpose is to promote economic growth in a way that conserves natural resources.

"It remains to be seen how the council will be used," Perrault says. "The President has made a number of environmental decisions without consulting us. He claims he's balanced the different interests, but the council should insist that he strive harder to correct imbalances that harm the earth."

In fact, there is a grave danger that the council may bog down, because it includes representatives from corporations such as Dow Chemical and Georgia-Pacific as well as from major environmental groups. Any agreement all parties reach is unlikely to be as progressive as many environmentalists would hope.

"A lot of people have this idea that consensus is wonderful," says Perrault. "Sure, we need to talk with developers who are opposed to us, but it's ludicrous to think we must weigh all views equally, because unwise development has destroyed so much already. The President needs to do less balancing and make hard decisions that may offend powerful people."

Perrault urges Sierra Club activists to watch the Council on Sustainable Development closely and pressure it to take a bold stand for the environment. "People will have to speak up," she says, "and they must be listened to," especially by President Clinton. ■

## WAYS &amp; MEANS



## Weather Retorts

CARL POPE

Last October Bill Clinton announced his position on global warming. He postponed decisions on virtually every critical component of U.S. energy policy, arguing that market and voluntary forces alone would meet his administration's commitment to reduce emissions of greenhouse gases.

Clinton's unfortunate choice to defer action was based in part on the perception that people are confused about how seriously to take the threat of planetary climate change. Behind this confusion lies a well-funded public-relations blitz launched by the coal industry and other greenhouse scoffers, a campaign that downplays the dangers of our continued random tinkering

with global climate systems.

There is no scientific dispute that CO<sub>2</sub> and other greenhouse gases trap solar energy within the atmosphere, and that increases in their concentration would cause Earth to retain more of the sun's heat. There is also no scientific dispute that the planet's climate has varied widely over the past million years. Indeed, recent research suggests that Earth's climate has been erratic for the past 100,000 years, and that the

It's not so much  
the heat,  
it's the stupidity

10,000 years during which human civilization has evolved have been unusually stable.

Humanity has become enormously dependent upon that stability. Even relatively minor variations from "average" weather can have devastating effects on us; witness the economic results of the five years of drought in California, the return of the hurricane cycle to South Florida, and last summer's menacing floods in the Mississippi Basin.

But by a peculiar logic, opponents of reducing emissions of greenhouse gases stand all of this on its head. Since global climate varies anyway, they say, we shouldn't worry about it. Perhaps the increase in CO<sub>2</sub> will cancel out other forces that might be cooling the planet. And who, they argue, is to say that today's climate is ideal anyway? Maybe warmer would be better. If we can't grow corn in Iowa 100 years from now, we'll grow it in Manitoba. (Iowa will cultivate hibiscus and vanilla beans.) Besides, they continue, we have a tremendous technological capacity to adapt to new problems: if sea levels rise because of global warming, we can always build dikes.

What is most remarkable about these carbon-industry apologists is that while they profess an extremely casual, can-do attitude toward the momentous changes that global warming might necessitate, they meanwhile wring their hands in despair at the prospect of making even the most trivial adjustments required to reduce the green-

## Every Stone a Story

PAUL RAUBER

house risk. We can, they declare, dike the entire state of Florida, but God help us if we have to get along with fewer high-performance muscle cars. We can risk intricate forest ecosystems and whole regions that depend on them, but cannot speed up the transition from our dependence on Appalachian coal. We can move the entire Corn Belt hundreds of miles north, but cannot expect anyone to install a compact fluorescent light bulb at home.

Scientists studying global warming are doing their best to shatter our illusions of security, most recently at a briefing conducted by Jerry Mahlman and Daniel Albritton, both directors of laboratories at the National Oceanic and Atmospheric Administration.

Mahlman and Albritton bluntly called the arguments against preventive action "clever defense-lawyer tricks." They noted that the scientific consensus on global warming is broad and growing. An increase of 3 to 9 degrees in the average temperature is very probable by the middle of the next century, they said, and unless we change course we face increased snowfall in the Arctic; a 90-percent probability of a rise in global sea level, a reduction in sea ice, and an increase in global surface temperature; and better than a 65-percent chance of increased drought in continental mid-latitude areas.

Meanwhile, the nation's leaders remain in denial. While Bill Clinton is willing to do somewhat more than George Bush, he has refrained from making meaningful—and urgently needed—changes in energy policy. Bloodied by the battle over the BTU tax, members of Congress are only too glad to have Clinton rescue them from further confrontation with the auto, oil, and coal industries.

Acknowledging our addiction to the burning of fossil fuels is difficult. But denying it will, in the long run, be even more painful. ■

Unfortunately, Liam does not mention his fear of heights to anyone until we reach the summit. Perhaps he wasn't aware of it himself, having never been higher than a Dublin barstool. Nor would he necessarily have realized it in the donkey work of slogging the switchbackless track through boulder, scree, and bog. But here at the airy pinnacle of Errigal, at 2,466 feet the highest point in all of County Donegal, with the northwest of Ireland spread out before him from the Poison Glen behind to the grim mass of barrow-crowned Muckish ahead, Liam sits down heavily, sweating profusely, pallid even by Dublin standards. Not even tea can help, brewed from the first-aid thermoses that each of us carry alongside our prophylactic packets of biscuits. Folk remedies thus exhausted, our native

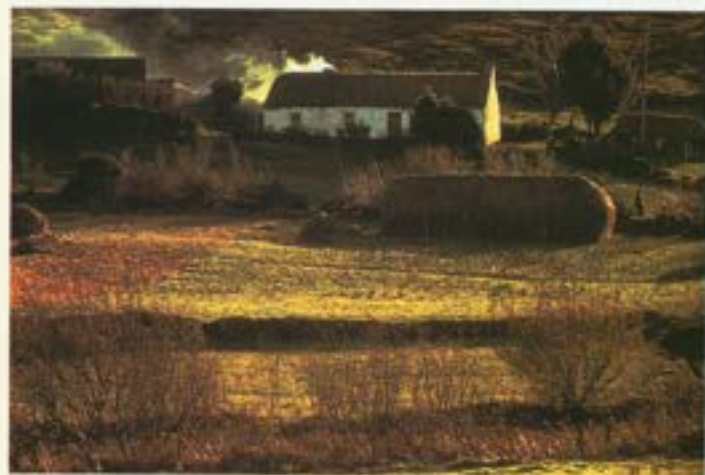
guide Linda Woods leads him back down by the hand like a lost child, all the while keeping up a constant stream of cheery chatter to distract him from the unaccustomed immensity of the horizon and the cairn erected to commemorate the climber who died in a storm last year.

This far fringe of the Eurasian landmass is enough to turn anyone's head; if the desolation of rock and bog won't do it, the language will. Wandering on my own a few days later, it takes the first drops of a deluge to stir me from my transfixion in the middle of the

Poet-primed,  
saint-soaked  
days in Ireland



country lane, cows staring at me and I staring at the rusty notice on the pole, warning in both English and Irish that "Persons throwing stones at the telegraph will be prosecuted." A providential lift leaves me in the shelter of the nearest pub, where I drip in front of the turf fire. "Sure it rained as much in the last half hour as it would rain in a week if it rained all day," says an old gent, transfixing me all over again.



In Ireland one participates in the landscape not through the New World fantasy of being the first person ever to stand on a particular spot, but through the stories, songs, and poems that infuse the countryside like strong tea. Turning left through the gorse at the obligatory ruined farmhouse, we ascend the 1,700-foot flat-topped massif of Ben Bulbin. ("Under bare Ben Bulbin's head/In Drumcliff churchyard Yeats is laid.") The rain and hail that assault us by turns are joined by the waters of Ard na Sruhán, a Sisyphian waterfall perpetually blown back on itself as it tries to tumble off the cliff into the lake below. ("Where the wandering water gushes/From the hills above Glen-Car.")

The tale of this landscape flexes between history and fable. On the way to the Blue Stack Mountains, we stop by a ruined castle at Lough Eske. "Did we burn this one?" wonders Liam idly.

Then up the Corrabber River to Lake Belshade, where a magic cat is said to guard the monks' jewels.

Often the stories are told by ghosts. Remnant stone walls march impossibly high up barren mountainsides, marking the boundaries of desperation in pre-Famine times, when the population was twice what it is now. Collapsed stone cottages are everywhere, marking the shrinking boundaries

of rural life. The lord of the castle at Glenveagh (now a national park) is best remembered for his eviction of 250 families in the bitterly cold April of 1860. His successor, a well-to-do

Yank from Philadelphia, is remembered by the rhododendrons that slipped his garden and colonized the hillsides, fighting the oaks and ancient hollies; signs along the lakeside trail beg our pardon for the disturbance from the ongoing rhododendron-eradication project. In the hills above, where the human-eradication project took place, the only trace of that species are the stone scars of ancient property lines and the occasional turf rick, thatched in the Donegal style. The Yank is said to have favored this approach to his estate, enjoying the peopleless prospect left him by his predecessor.

That night we stay at a guesthouse in the port town of Bunbeg, where cattle are driven down the main street and old fishermen hang about the dock, talking quietly in Gaelic. The topic is the day's catch of salmon, like themselves a vanishing breed, as sea lice from fish farmed in large pens just off-

shore infect their wild brethren. Unwilling to brave the payday crowd at the local boozier, we are entertained instead by our host's complicated tale of druids, Fomorian pirates, magic eyes, and severed heads, all by way of explaining how the nearby promontory called "The Bloody Foreland" got its name.

We pass it the next morning in a small mailboat, although the sun is not right to make the field of quartzite glow red. Ten miles out we dock at Tory Island (its name means "rock pile"), the most remote inhabited spot in Ireland, and proof conclusive that humans can—and will—live anywhere. They had already resided here a long time when St. Columba (who was born in the hills above Glenveagh) established a monastery in the sixth century, and they won't go away now, even when the last sod has been stripped and turf has to be imported from the mainland. There are no trees, and little vegetation apart from the moss campion blazing in hillside crannies. The only apparent commerce is construction of an absurd 40-room luxury hotel—perhaps for penitent monks on holiday.

The east end of the island rises to high seacliffs that shelter countless gulls, cormorants, razorbills, and puffins. Seals doze on the rocks below; one lies beheaded, executed by fishermen jealous of its appetite. In the distance, two men and a woman fertilize a potato field, spreading seaweed by hand out of woven baskets; only a tractor anchors the scene in this century.

We are blessed with a calm return voyage, fair enough for a rare Irish sunburn. That night there is a dance in a big country pub, where £1 buys all the whirling the inner ear can handle. Walking home under the blazing stars, the world spins with waltzes and reels and porter and song, but it is the earthy turf smoke from every chimney that intoxicates more than any dram. ■

► For more information, see "Resources," p. 72.



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## Dr. Clean

MICHAEL CASTLEMAN

Auguries of humanity's corporeal demise often come from the mouths of non-physicians. Air pollution may be responsible for the rising death rate from asthma, the thinning of the ozone layer may lead to more skin cancers and cataracts, and ingestion of pesticides increases the risk of cancer in children. Doctors greet these assertions with considerable skepticism, presuming that environmentalists think *everything* causes cancer. But a newly established organi-

zation, the National Association of Physicians for the Environment (NAPE), may help improve communications between the two groups.

"Every environmental problem is or will become a health problem," says NAPE founder John Grupenhoff. "Therefore, pollution prevention is disease prevention."

Through NAPE, environmentally conscious doctors hope to accomplish more than they might by acting individually or through mainstream medical societies. The association hopes to serve as a clearinghouse for physicians, patients, and the public, educating them about the health effects of environmental pollutants and what they can do to help eliminate the hazards. In addition to providing medical expertise to federal agencies, NAPE members intend to work with local environmentalists and with medical societies and individual physicians who deal with diseases that might be environmentally provoked.

The medical profession desperately needs its environmental consciousness raised, according to a recent report by Physicians for Social Responsibility (PSR). A telling example of this was drawn from the group's survey of primary-care doctors in Michigan and Wisconsin about the health effects of mercury and PCB pollution in the Great Lakes. Several studies have shown that

when pregnant women consume Great Lakes fish high in these pollutants, their babies are at risk for low birth weight and retarded motor and behavioral development. Unfortunately, many of the doctors PSR surveyed were unaware of the troubled waters: nearly half the respondents said pollution of Lake Michigan posed no hazards to their patients. During the year before the survey, fewer than 10 percent had arranged for patients to be tested for mercury.

"The human health threats posed by pollutants represent a serious challenge for the medical profession," says PSR Executive Director Julia Moore. "It's essential for primary-care physicians to have more training in toxicology, epidemiology, and risk assessment to prescribe the best prevention and treatment for environmental hazards."

The group was founded in 1961 to oppose atmospheric nuclear-weapons testing, and in the 1980s was a leader in the movement to stop the arms race. But with the end of the Cold War, PSR has refocused its efforts on combating pollution, using its time-tested tactics of organizing conferences and providing speakers on the health/environment connection.

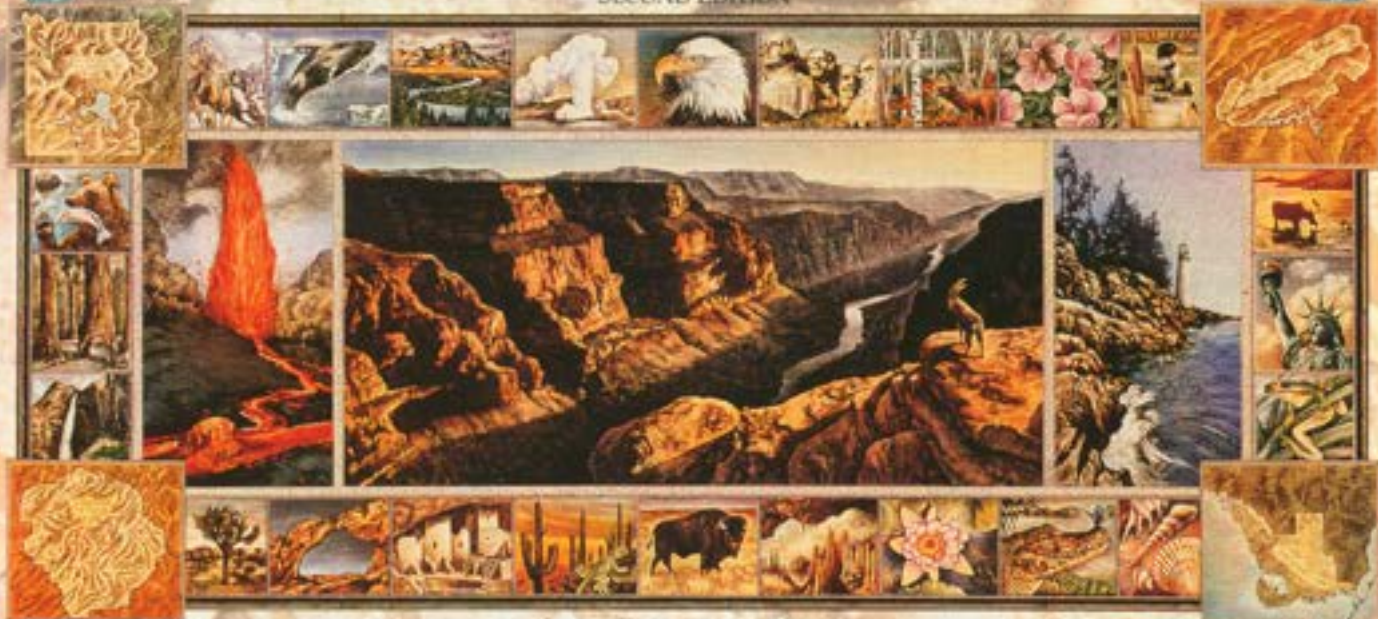
Some of the environmental concerns confronting the medical establishment are controversial—what should be done about nuclear waste, for example—and both NAPE and PSR provide a much-needed forum for wrestling with these tough issues. Members of both organizations agree that physicians must pay more attention to connections between environmental degradation and illness, on a personal as well as a public level. Today, few physicians regularly ask their patients about exposure to pollutants in their neighborhoods and workplaces. But thanks to NAPE and PSR, taking "environmental histories" may become as routine as recording weight and checking blood pressure. ■

### Beyond what's found in the Physician's Desk Reference



► For more information, see "Resources," p. 72.

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# Holding Steady

HANNAH HINCHMAN

I've driven a long way up a rutted two-track and walked another three miles over a short-grass bench, looking for a difficult landscape to draw to take my mind off the death of my horse. Up here are miles and miles of empty, rolling country above the serrations of badlands and below the forested Absaroka foothills. A deep dome of high pressure encloses the whole of it now; no wind, only a few, almost motionless cirrus-cloud filaments in a sky of hard enamel blue.

Out on a flat parapet, with the ground falling away on three sides into seething erosional forms, I line up a landscape that contains 13 distinct horizons. The nearest are multi-colored, turreted, and gullied; the farthest are snowfields on the Continental Divide. Hunting season has just begun; percussions of rifle shots from miles away reach my ears at the rate of about one every two minutes, and sound like doors being slammed shut in an empty house. Each time I hear

them I envision my horse falling to the ground from the bullet that ended his life after he broke his leg. Remembering his death, even as it recedes into the past, sets off small tidal surges of grief. We rode together for seven years, and on every ride he taught me more of this country.

Nevertheless, looking over this familiar ground steadies my heart, not so much because of its beauty, but because of its implacable presence. Right now I need its huge solidity, its impersonality, its "otherness" to provide a protective calm over me. I can look down on the town from here, at the houses of my friends. In comparison with this lean, dry place, that one looks slippery with mortality. The landscape

Drawing what lives  
beneath layers  
of rock and sky

around me dwarfs any feature or movement smaller than the geological.

Turning back to the drawing, I find I've lost the thread. Sorting out the plots and subplots of so many distinct horizons seems beyond my capacity today. What's on the page so far is a slow rhythm of shapes, much simplified from the actual landscape, and some pieces of the dominant color, an austere pale gold. Usually I work with a kind of urgency, but today my movements are irregular and tentative, almost sleep-drawing. This isn't the rendering I thought I wanted, but now it has a life of its own.

Drawing, more than simply looking, is a concentrated conversation between the landscape and the self. But the eye's activity, directed by the heart and mind, sets the whole thing in motion. The pooled shadows between these gold ridges are in some way an oracle, or a divining rod. When a familiar landscape seems suddenly new, or withdraws and becomes opaque, or appears full of a strange vitality, I suspect processes at work deep within that haven't yet surfaced in consciousness or in language.

It's so quiet that I can hear the tools rattling in the back of a pickup truck as it bounces down Horse Creek Road

more than a mile away. This day spent in the uplands has changed me, tipped the balance away from sorrow. I look at the drawing on the ground at my feet and see the effects of three kinds of stillness: a heart exhausted by sadness, a poised weather system, and a landscape holding fast on a scale beyond the human. ■

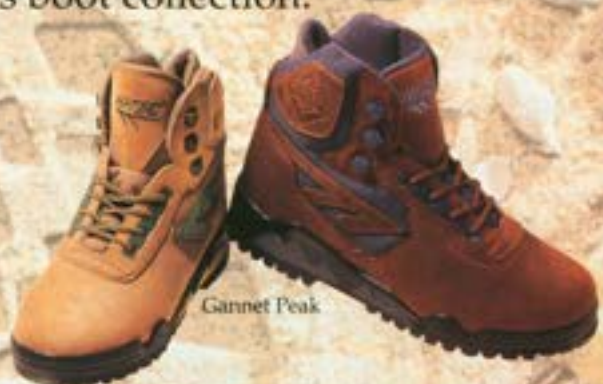


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## Cheap Chills

MARC LECARD

**B**adly designed, energy-wasting, full of chemicals that destroy the atmosphere, motor turning over noisily: what modern convenience is this? Don't look in your garage, look in your kitchen: it's your refrigerator.

Refrigerators are the most frequently used home appliance. They are also one of the biggest energy-eaters: your average floor-model fridge/freezer gulps down about 3,000 watt-hours of electricity a day. And the coolant used until very recently in the vast majority of them was Freon—a gas that contains ozone-destroying chlorofluorocarbons (CFCs).

One basic design flaw in many refrigerators is the placement of the compressor that drives the coolant. Put next to or below the cooling compartment,

the motor actually warms up the area around the compartment, requiring extra energy just to break even. (Early refrigerators with the motor on top were more efficient.) Upright models also lose cool air every time you open the door—it spills out the bottom and is replaced by warm air, forcing the compressor to work harder. And in conventional designs, air flows between the coils and the storage compartment; the colder coils attract moisture and ice up, once again making the compressor work harder. This shortens storage life as well by lowering the humidity and causing your food to dry out.

The Clean Air Act of 1990 and the National Appliance Energy Conservation Act of 1987 both built a fire under mainstream appliance technology—one by regulating CFCs and mandating a phaseout by 2000; the other by setting minimum efficiency levels for appliances, and by providing for labeling to inform consumers about the relative energy usage of different models.

Recently, responding to new, even more stringent federal efficiency standards, a group of utilities bankrolled an EPA-sponsored contest to encourage design of a super-efficient refrigerator. The prize: \$30 million. The winning design, from Whirlpool, uses 75 percent of the energy allowed by current federal regulations, and does it without CFCs.

Even before the big manufacturers were forced into the arena, several small ones were already producing energy-efficient chillers—at least one, the Sun Frost, more efficient than Whirlpool's winning entry. (The small makers were frozen out of the competition because, according to contest rules, they turn out too few units a year to qualify.) These ultra-efficient fridges, often custom-designed to run on 12-volt direct current, use only a tenth as much power as standard models, and have been popular with energy-independent homesteaders for years now. The high cost of these units can be off-putting, though at current energy prices they should make up the difference in reduced utility bills over their 15- to 20-year lifetime.

Freon is still used in these boxes, though makers big and small will be bringing out CFC-less models soon using a reconfigured variety, Freon-134, that doesn't contain chlorine. Sun Frost recently made a demonstration model using cyclopropane as the coolant; German and Japanese manufacturers are also experimenting with alternatives to Freon.

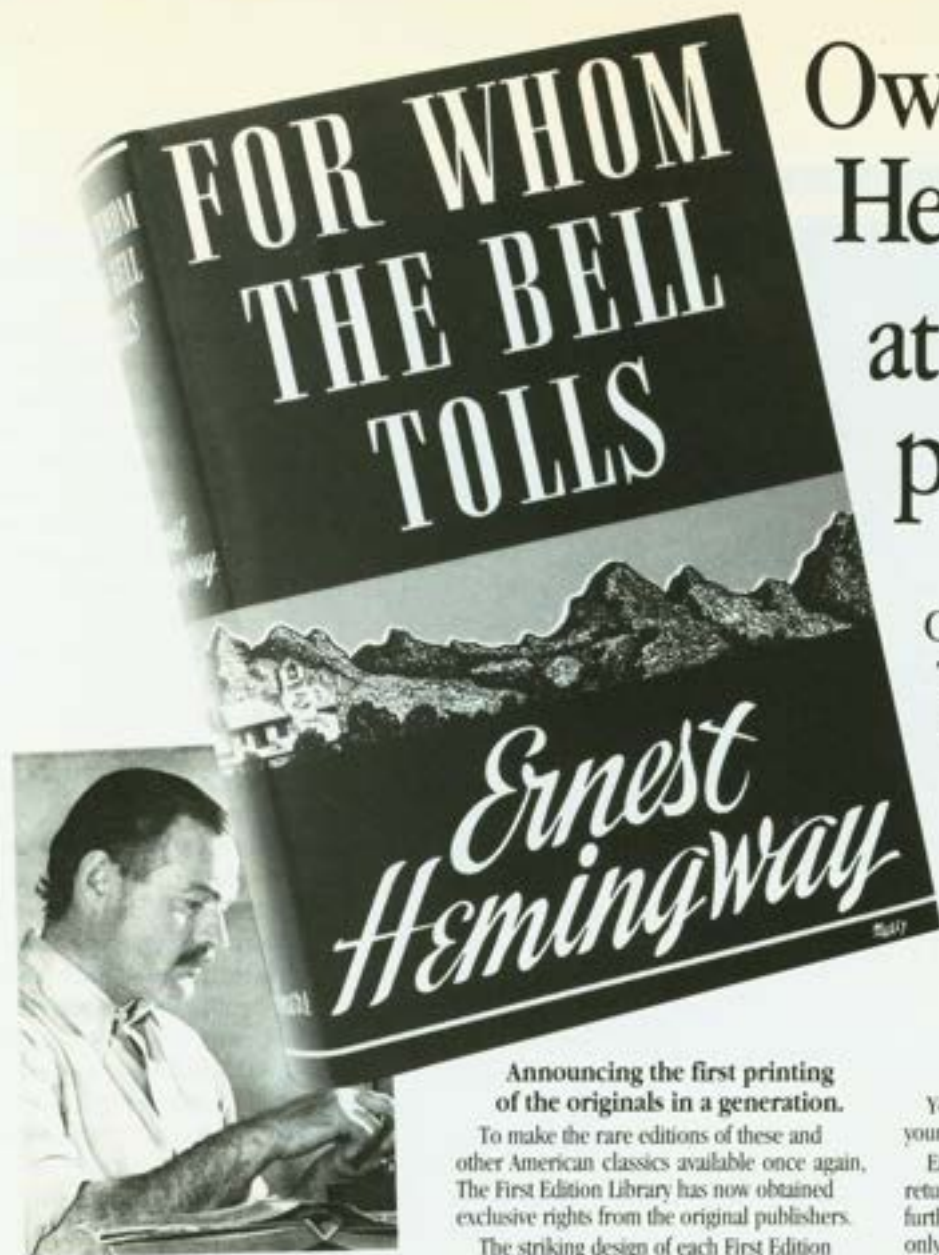
If you're not quite ready to junk your dinosaur, update it. Motor controllers, available in many hardware stores, regulate electricity to the compressor motor, so that it only gets as much power as it needs to run. You can buy plastic flaps like those in supermarket coolers; these help keep cool air inside where it belongs. Putting a thermometer in the cooling compartment will help you monitor temperature and adjust for maximum efficiency.

And when the time does come to give the old fridge the boot, recycle it. Some utilities sponsor recycling programs; others will give you advice on how to keep your old appliance out of the landfill and its coolant out of the atmosphere. ■

► For more information, see "Resources," p. 72.

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## Moon Walking

M. GARRETT BAUMAN

**F**ebruary 9, 1993. Two degrees Fahrenheit. A mile from the nearest road on the western fringe of New York's Finger Lakes region. Elevation: 1,834 feet. Latitude: 42 degrees, 38 minutes; longitude: 77 degrees, 49.5 minutes.

I like the frozen crunch of fact under foot when I set out for a winter walk at midnight. With just a wedge of moon, I will walk for miles in the woods. If that seems intimidating, consider that Nunda, New York (where I live), orbits the sun at more than 67,000 miles per hour, and the Milky Way rockets through untracked space at speeds we cannot determine. All while we think we're well located at our lighted addresses. So when a winter itch creeps up the back of my legs, I know it's time to walk in the dark. If I wait until spring, I won't be within millions of miles of where I am now.

Two days of snow and ripping winds have dragged drifts into hollows and rippled dune patterns across the field. Tonight the wind died and the moon shines. The porch steps crack under my weight like branches splitting in an ice storm. The sound echoes from the woods.

Cold assaults my nostrils—the ether cold of windless night that radiates heat into space. My body heat drains through sweater and coat. My ears know where the pores in my knitted hat are. On a night like this I realize how cold the universe is, how few are those one hundred billion nuclear

■  
The planet spins  
in the warm  
lunar glow

candles that warm our galaxy. Twenty times as many cells warm each of us.

The pore between our sun and the nearest star is 25 trillion miles wide. Into that gap radiates heat from maple buds, crevices of car engines run hours ago, steam in kitchens, and the fluffed-out owl. Simple physics—heat moves to cold. If all life, all stars, all fuel were consumed in supernovas—if we spread all known heat like butter over the cold platter of the universe—could it warm space's absolute zero by even one degree?

Maybe it is the fear of being absorbed by such cold that keeps us indoors on winter nights. Yet most people can walk more securely in the dark than they suspect. With the moon and reflective snow cover, I can see the red barn and brown grass across the valley. Deer, rabbit, and turkey prints show clearly. Tonight's brilliant moon flies above scattered hazy clouds. The landscape glows in a pale, watery luminescence. Moonlight should be cold; yet when I step from the shadows, the light feels warm. I may be kidding myself, of course. It's not much, just a sigh, a dream of heat from the cold sky. The dry, fluffy snow squeaks with each step, and the flakes glitter, so it feels as though I'm walking through a field of stars; thousands of them sparkle in the flakes underfoot.

Walking in the night reminds me of an elderly woman named Eva who lived in my house when I was a child. She had been blind for 20 years, and often didn't know her stockings sagged like an elephant's skin around her ankles. But she taught me to read and to identify birds from an old encyclopedia. I still recall the glossy pages with the lush birds, even though the years have closed over her and that lost book. "Describe it to me," she'd say. And when I did, she might say, "Ah, that's an



oriole," and have me read the name under it. I'd stare at the flaming orange-and-black bird and then at the glint of light in her dead eyes. So we felt our way toward sight, each a moon for the other's midnight.

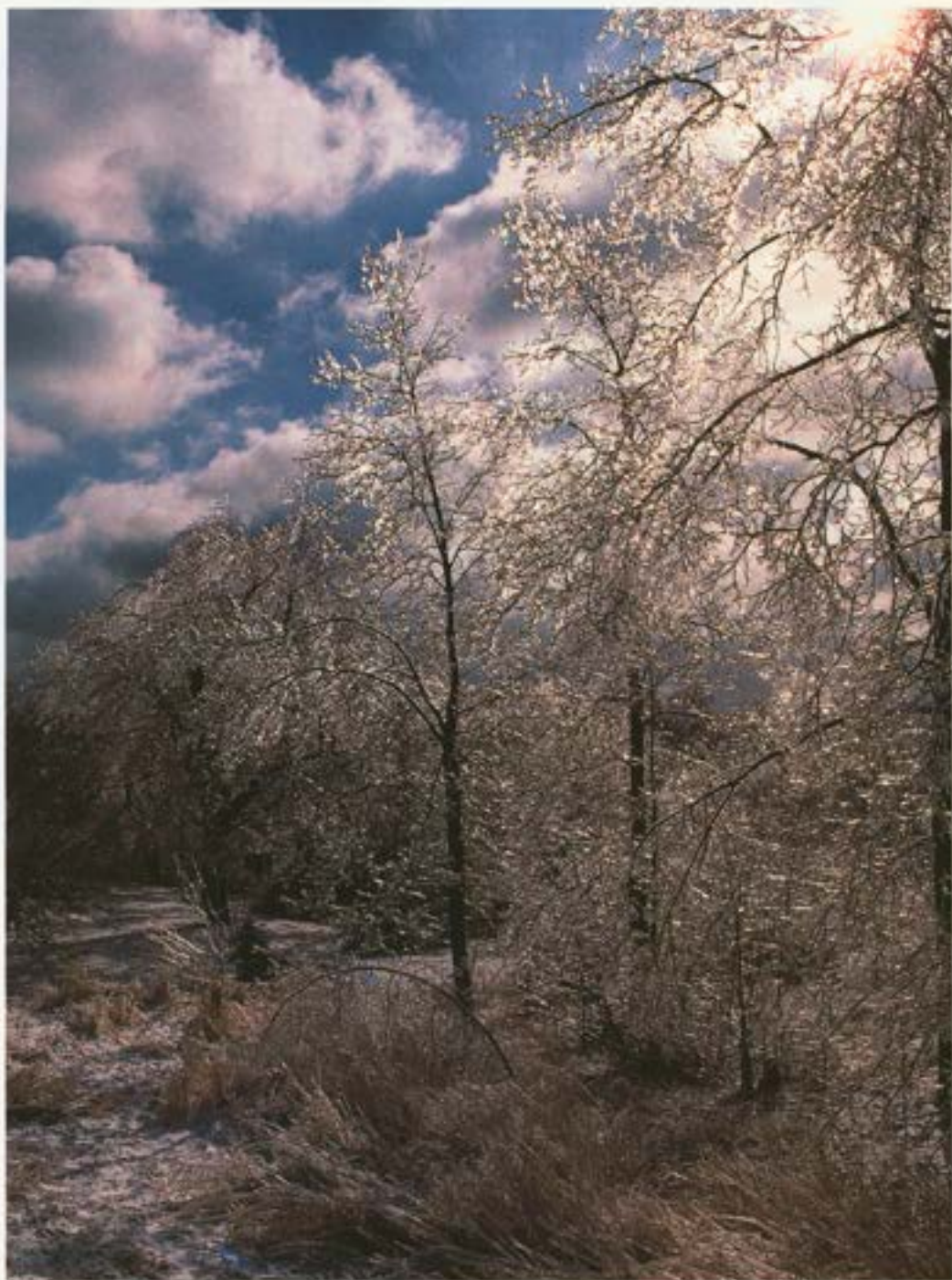
I head for the gully trail, dropping 200 feet in a quarter mile. As I move under tree shadows, the stars at my feet disappear. My teeth and lungs sting. I spot fresh prints in the snow, and recall stories of bobcats ambushing deer from under trees. Branches hang thickly over me, and I hope the bobcat sees well and lacks ambition. At the bottom, the creek is stiffening into ice, gurgling half-heartedly as it grinds to a halt. Rocks that are awash wear slick caps of ice. Here at the farthest edge of my property, I mark my territory, a pathetic wisp of steam vanishing upward. On the way back, thighs, ears, and cheeks pay for walking in the dark. My body has begun shutting off its heat hoard to save brain and heart.

The cold-cracking tree limbs sound as if they could start a split through the earth, as though the brittle air could shatter like glass. As I pass the frozen pond, I spot the goose that camps on our property—white feathers against the white, snowed-over pond. She stands on one leg, silent,

waiting for water. A yellow light from the house blinks through the trees, and the cold moon glows above. The bass lie on the bottom of the pond, the ice above them inching down. What would we do if the darkness and cold should really take hold? I slap my

numb thighs and tramp home. ■

M. GARRETT BAUMAN is a professor of English and the coordinator of human ecology at Monroe Community College in Rochester, New York. His fiction and essays have appeared in numerous publications.



## Trusting to Luck

**W**e tied up our horses and followed Reynaldo up the last rocky slope to the lip of Parícutín, the volcano that erupted in a Mexican cornfield in 1943 and covered two towns with lava before it stopped. It wasn't supposed to be active any longer, but the soles of our boots were hot, and a scrap of paper placed on the ground erupted in flames. The horizon was ringed by cinder cones identical to ours, except that all the others were being struck by jagged bolts of lightning. To the beat of proximate thunder, we undertook a hasty risk assessment.

"Do you think," Michelle asked, ducking as low to the ground as possible, "that this is a good idea?"

"No hay problemas," Reynaldo replied cheerfully. "I've been up here before in lots of storms. If God wants you, he will take you."

"In our country," I ventured, "we think about these things differently. We think that one should not tempt God by taking unnecessary risks."

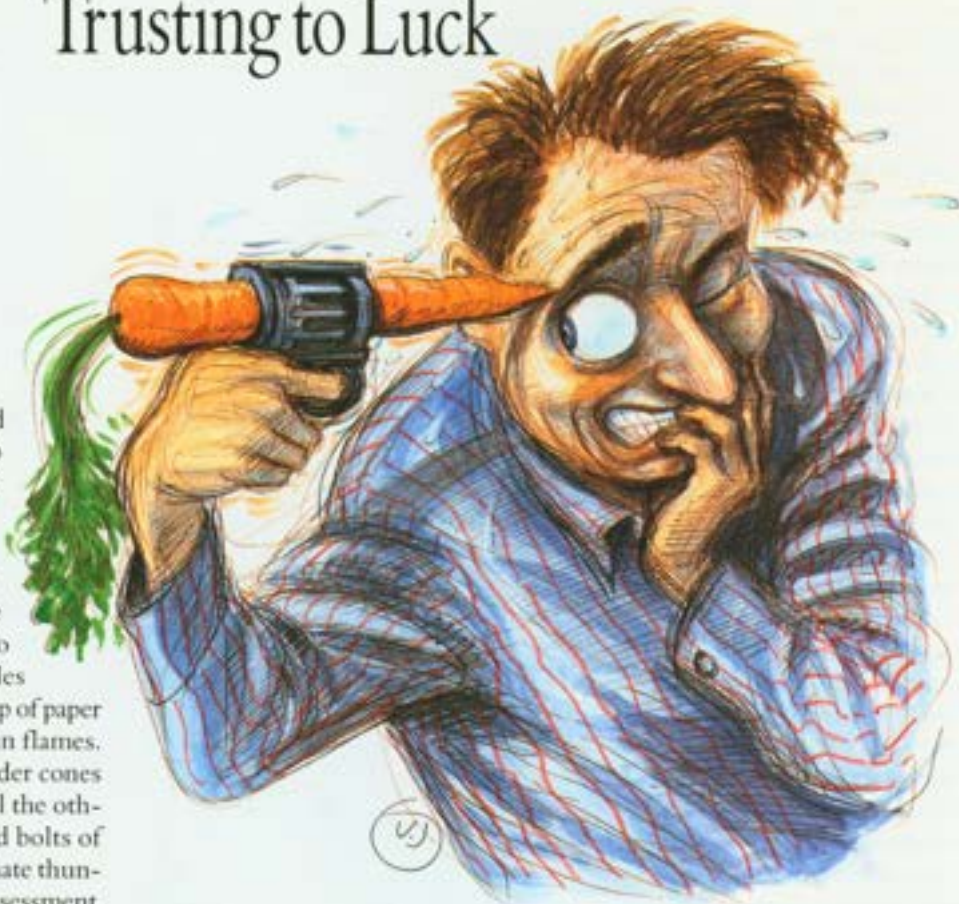
BOOM! replied God.

BY PAUL RAUBER

If Reynaldo worked for the Environmental Protection Agency, he would have appealed not to providence but to the doctrine of "negligible risk." Negligibility is the standard that EPA Administrator Carol Browner proposes to substitute for the zero-risk mandate of the Delaney Clause, the 36-year-old caveat in the Food, Drug, and Cosmetic Act that flatly forbids concentrations of carcinogenic

pesticides in processed foods. "Negligible risk," on the other hand, leaves some wiggle room, declaring that we can live with a chemical poison that gives cancer to only one person in a million. Or rather, 999,999 of us can live with it; for the unlucky millionth citizen, if God wants you, he will take you.

Browner's bitter pill comes embedded in many layers of sugar as part of the Clinton administration's package of proposed reforms to U.S. pesticide laws. Many elements of this revision have long been on the Sierra Club's wish list. These include a ban on the sale abroad of pesticides that are outlawed in the United States, stricter fines for violations of pesticide laws, and, for the first time, a requirement that the EPA set pesticide "tolerance levels" that protect infants and children, not just the 30-year-old white



*Naive question:  
why do we need  
poisons in our food?*

■ ■ ■

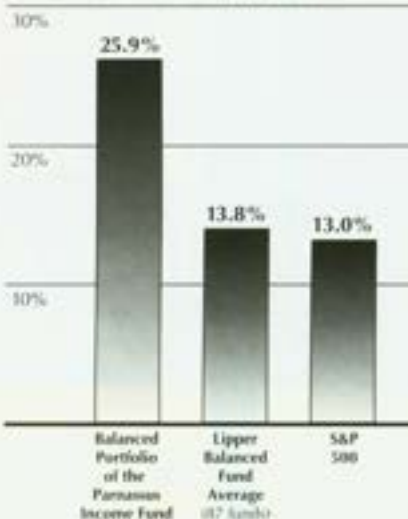
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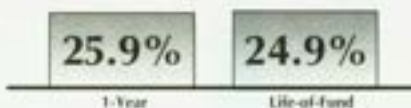
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## PRIORITIES

male so beloved by the statisticians.

The EPA's interest in child protection was spurred by a damning report last June by the National Academy of Sciences, which found that current pesticide standards do not sufficiently take into account the effects of pesticide residues on kids. It took the NAS to convince the feds of what environmentalists have been arguing for years: that children are not just "little adults,"

and that pesticide tolerances should acknowledge their different diets and metabolisms as well as their smaller size.

Concern for kids, unfortunately, was not the only force driving the new policy. Another powerful prod was a June 1992 ruling by the U.S. Ninth Circuit Court of Appeals, in a case brought by the Natural Resources Defense Council (NRDC), ordering the EPA to start enforcing the more-honored-in-the-breach Delaney Clause. The court, bless

its heart, ruled that when the law says "no carcinogens" it means no carcinogens, not even a teeny-weensy bit. The court ruling set off a furious lobbying blitz by the agrochemical industry. If Delaney were strictly enforced, it would mean the end of the 70-odd pesticides in current use that the EPA says are probable or possible human carcinogens. Rather than set clear, enforceable timetables for phasing out these poisons, the EPA is calling instead for repeal of Delaney.

The Delaney standard is admittedly far from perfect. It applies, for example, only to processed foods. "It's like saying food of a certain color can't have carcinogens," says Richard Wiles of the Environmental Working Group, a watchdog organization. Despite its faults, however, Delaney is still the strongest ban on toxic chemicals we have. Losing it, Wiles says, "would be equivalent to losing the Endangered Species Act."

In Delaney's place, the agency proposes the cold comfort of risk assessment, a theoretical model for guessing how many people will die from a particular toxic substance. While it sounds scientific and precise, risk assessment is wholly dependent on a large number of assumptions that can color its results in whatever direction the assessor desires. Former EPA Administrator William Ruckelshaus once compared risk assessment to a captured spy: "Torture it enough, and it will tell you anything."

The first step in risk-assessment roulette is identifying which pesticides are lingering on our tomatoes or peaches. This presents a difficulty right off for the Food and Drug Administration, because its standard testing procedure can detect the residues of only half of the agricultural chemicals now in use. And once detected, the toxicity of many of these substances is unknown; studies have been completed on only 2 percent of the more than 400 pesticides Congress told the EPA to re-examine in 1972. Furthermore, these risk assessments consider only cancer, not damage to the nervous, immune, or reproductive systems. Nor are syn-

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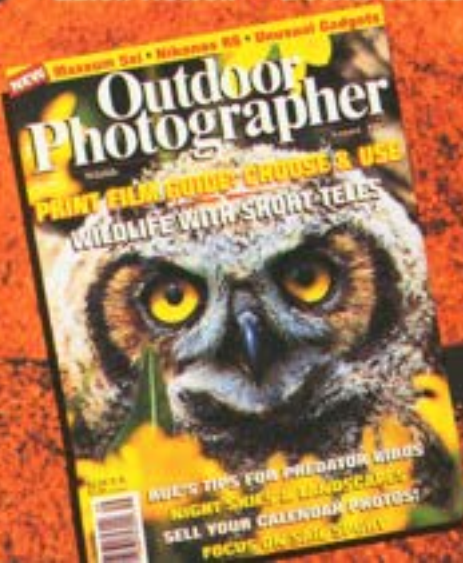
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ergistic effects examined; despite research findings that virtually every meal contains a stew of five or ten different pesticides, each chemical is tested in isolation.

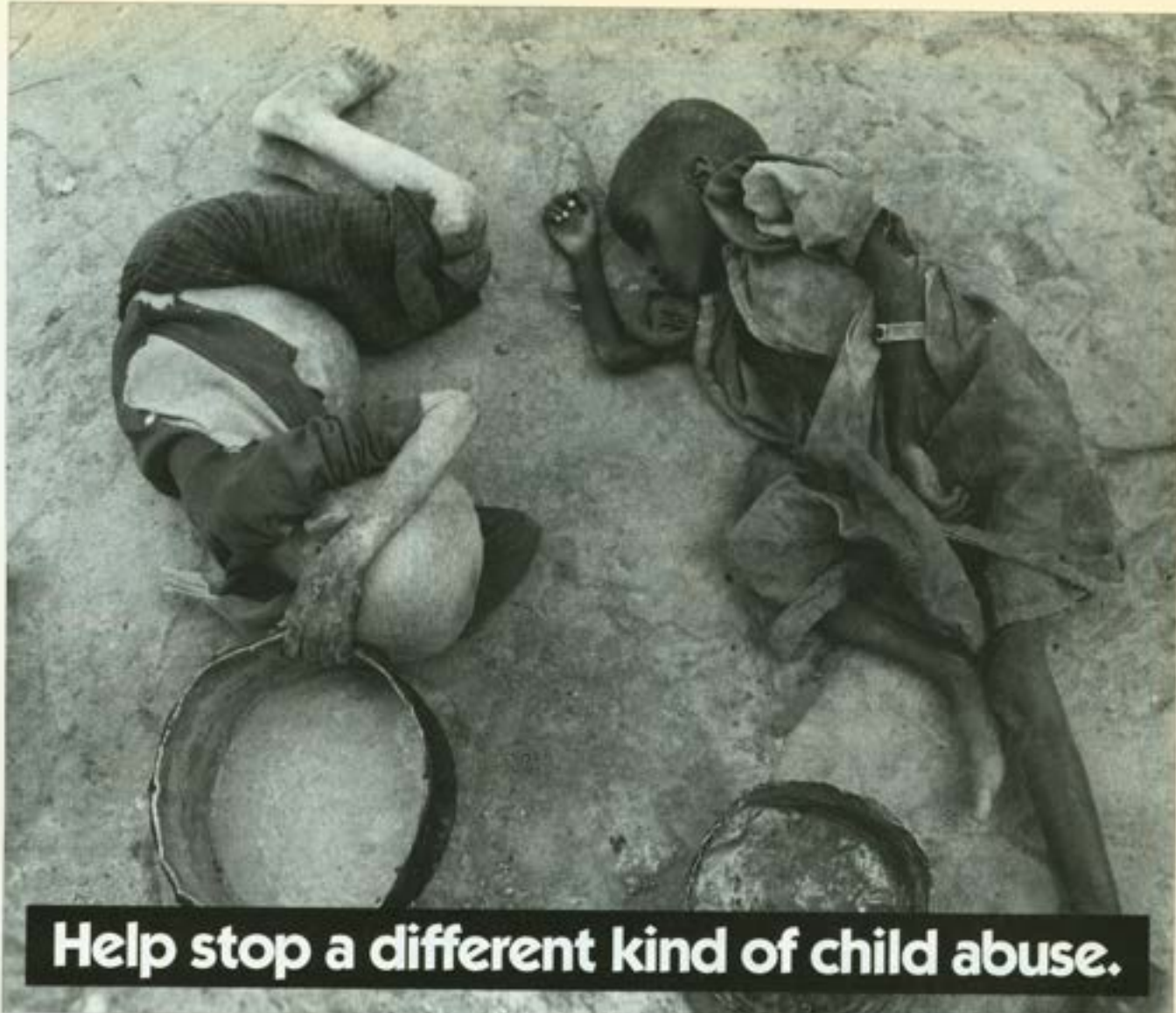
The second step is to plug in "average exposure." This has traditionally meant the exposure in the average diet of the average young white male, ignoring women, children, farmworkers, vegetarians, or anyone else who does not fit the statistical norm. This is the step that the EPA now promises to reform, by considering for the first time children's exposure patterns.

The risk assessor must next determine how much of a bad thing is too much. Because testing on humans is frowned upon, animal studies are the rule. Unfortunately, some substances, like dioxin, are incredibly more carcinogenic in animals than in humans. Others, like arsenic, are harmless to rats but poisonous to people. Environmentalists argue that since it is not known whether cancer-causing substances have a threshold, i.e., whether a certain amount need be in the body before it triggers uncontrollable cell proliferation, it is foolish to try to find a "safe" exposure level. Still, such levels are purportedly found.

Last of all, the guesses from the preceding steps are compiled into a final guess as to the average person's chances of contracting cancer. The "acceptable" number is a moral judgment, and thus a matter of political expediency. When the EPA first started using risk assessments, its standard was one death per 100 million people. This was soon whittled down to a "negligible" factor of one in one million, and might now come down to one in 100,000 in cases where manufacturers can convince the EPA that elimination of their poisons would result in "significant disruptions" to the food supply. And, as NRDC senior scientist Lawrie Mott points out, "There hasn't been a pesticide they haven't made that claim about yet."

The one-in-a-million standard, of course, applies only to one pesticide on





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## PRIORITIES

one sort of produce; add up the risks from all pesticides on all foods, and they don't look so negligible any more. A report by the Environmental Working Group issued concurrently with the NAS study revealed that if the cumulative cancer risks from only eight different pesticides used on 20 fruits and vegetables are taken together, the average child exceeds the EPA's one-in-a-million negligible-risk standard by his or her first birthday.

Despite the friendly rhetoric and modest reforms of the Clinton pesticide plan, the environmental movement is unified in its opposition. "The EPA was trying to give us a lot of things on our agenda so they wouldn't have to give us Delaney," says Michael Gregory of the Sierra Club's Hazardous Materials Committee. "It didn't work."

The Sierra Club is calling on the administration to go back to the drawing board and come up with a plan to do three simple things: rapidly phase out the most dangerous pesticides, set timetables for overall pesticide-use reduction, and offer more protection for children. The difference is that between risk management and risk prevention. Risk managers look at a glass of contaminated water and ask, how many people will it kill? Risk preventers look at the same glass and ask, why do we have to drink this at all?

► For more information, see "Resources," p. 72.

## Tough Talk From the Feds

*Clintonites promise the darnedest things. But can they follow through?*

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## PRIORITIES

surprising if they came from an environmental group, but these allegations came from inside the bureau itself. A dozen BLM employees authored the report, *Public Trust Betrayed*, and had it published last summer by a new activist group called Public Employees for Environmental Responsibility (PEER). Because they feared for their jobs, they kept their identities secret. But their message was clear: the agency that oversees fully one-eighth of the nation's land is guilty of "gross mismanagement leading to the destruction of millions of acres of publicly owned rangeland."

Does the BLM have anything to say? "Nope," responds BLM strategic planner Lee Otteni in his pleasant western drawl. "I think the employees who wrote it were honest, sincere, and absolutely correct. I know examples where all the things described in that report have happened. And I've got a whole stack of General Accounting Office reports that say the same thing."

Out with the old evasive bureaucrats, and in with the new self-effacing ones, who will tell you frankly that the agencies they work for are—or at least used to be—a menace to nature. The U.S. Bureau of Reclamation, for example, has always been the muscle-bound arm of the Interior Department, known for building such engineering marvels (and ecological catastrophes) as Glen Canyon and Hoover dams. Last October the agency's new commissioner, Dan Beard, admitted to an Associated Press reporter that the legacy of BuRec's audacious river-taming efforts was—as the Sierra Club and its allies have said all along—contamination, dried-up streams, and altered landscapes.

"The dam-building era is over," Beard declared. "We've got to become a water-resource-management agency." Unlikely as it may seem, BuRec's dam builders are now re-inventing themselves as conservationists, focusing on protection of water, wetlands, and wildlife. From now on, the agency

says, it intends to improve use of the water we already have, not just pour concrete. In Los Angeles, for instance, BuRec is helping city officials build a plant that renders wastewater pure enough to be sold for use in oil refineries and other industrial facilities. The effort will not only be a boon to Santa Monica Bay, where the toxic effluent now ends up, but will also generate jobs and revenue.

At the BLM, director Jim Baca ("A Bolder BLM," July/August 1993) is promising to stand by conservation-minded field staffers. During the Reagan/Bush era, ranchers would routinely undermine efforts to enforce environmental laws by calling up congressional representatives, who called the national BLM director, who called the state director, and so forth on down the line of command until the unfortunate field person got the word: "Don't do it. There's an election coming up." With Baca at the top, it's going to be different, Otteni says. "Now the House or Senate member is going to call up Baca, who is going to say, 'Good. We're getting something done.'"

Baca also promises to change the way his managers are evaluated. Where once they were measured by the number of cows they fed and the miles of fences they built, Baca plans to apply an ecological yardstick by asking things like, "How many streambanks in your district are healthy? How many upland areas are improving?"

Environmentalists are charmed, of course, by this evidence that their concerns are at last being taken seriously. But they need to remind themselves that talk in Washington is ubiquitous and cheap. The Agriculture Department's Animal Damage Control Program, still proud of the fact that it kills tens of thousands of coyotes for ranchers every year, is repackaging itself as "Wildlife Services," yet nobody expects this bastion of sharp-shooters, trappers, and poisoners to start nurturing varmints anytime soon.

Even where the talk seems sincere, as at both the BLM and BuRec, it can still cut two ways. There's no question that bold environmentalist statements

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help rally broad-based support for reform. Even BLM critic Jeff DeBonis, executive director of PEER, is impressed by Baca's first few months on the job. "After talking with him, we're hopeful about achieving long-lasting reform," he says. But tough talk also provokes the enemies of such reform—and in politics, ire often speaks louder than appreciation. For example, pronouncements about charging higher fees for BuRec water have galvanized the opposition of the agricultural industry in California's Central Valley. At the BLM, fierce opposition to a hike in grazing fees has likewise propelled what most Americans see as a minor issue—grazing reform—into the headlines and to the top of the congressional agenda.

Amid the tumult, environmentalists have learned a counterintuitive lesson. With friends like Baca and Beard in office, it would seem only natural to relax a bit, to trust them to carry out their pledges. But the very frankness and determination of these men—and the entrenched nature of the Old West attitudes they are trying to change—ensures them of a fierce opposition. As a result, environmentalists are working harder than ever to influence Congress and the executive branch. Just because a leader like Jim Baca sticks his neck out doesn't mean someone isn't going to try to chop it off.

—Joan Hamilton

► For more information, see "Resources," p. 72.

## Wishful Thinking

*Wise Use cowboys try to rewrite the Constitution.*

Since frontier days, the business of local government in the rural West has been resource extraction. County governments were—and to a large extent still are—dominated by wealthy ranchers, mining-industry executives, or representatives of the local lumber mill. Although it is now clear to everyone else that the days of welfare ranching, government land

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## PRIORITIES

giveaways, and subsidized clearcutting are nearing their end, many county governments are desperately struggling to keep the cowboy propped up on his tottering horse.

In this effort, as many as 50 counties, mostly in the West but throughout the country, have signed on to the legislative equivalent of a chain letter by passing so-called "custom and culture" ordinances. Based on an inventive reading of the Constitution and various federal laws by a Wise Use organization called the National Federal Lands Conference (NFLC), these ordinances promise credulous county officials exemption from "big gummint" land-use laws like the Endangered Species Act and the Clean Water Act, and from rulings that increase federal grazing fees, decrease logging in national forests, and designate new wilderness areas or wild-and-scenic rivers.

"County government is the last hope

we have for battling big government," claims Dick Manning, a public-lands rancher and miner from Catron County, New Mexico, and an NFLC trustee. "The people are the government and we have forgotten this."

The "County Movement" is the brainchild of Manning and Karen Budd, a Wyoming attorney and James Watt protégée. They found their inspiration in some vague language in the National Environmental Policy Act that calls for federal authorities to cooperate with state and local governments to (among other things) "preserve important historic, cultural, and natural aspects of our national heritage." Upon this scant foundation they cobbled together the theory that if counties define their "custom and culture" as, say, overgrazing public lands or leveling national forests, federal agencies are obliged to preserve that way of life.

In the County Movement, the Wise Use agenda masquerades as land-use planning. While genuine land-use

plans (which many of the counties in question desperately need) typically restrict the behavior of private landowners for the public good, County Movement plans restrict the behavior of government officials acting in that same interest. The plan passed by Ontonagon County, Michigan, for example, seeks (along with much else) to restrict federal acquisition of private lands, prevent designation of new wild-and-scenic rivers, maintain lumbering "at levels consistent with custom and culture," and retain the archaic 1872 Mining Law. The plan explicitly places ideology over ecology: "All natural-resource decisions affecting Ontonagon County shall be guided by the principles of protecting private-property rights, protecting local custom and culture, maintaining traditional economic structures through self-determination, and opening new economic opportunities through reliance on free markets."

Some of the wackier ordinances even purport to give counties the author-

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ity to arrest offending state and federal employees. "Federal and state agents threaten the life, liberty, and happiness of the people of Catron County," declared its county commissioners in a 1992 "comprehensive plan": "They present a clear and present danger to the land and livelihood of every man, woman, and child. A state of emergency prevails that calls for devotion and sacrifice." The U.S. Department of Agriculture was compelled to remind Catron County commissioners that, devotion notwithstanding, any attempt to enforce their ordinance would be regarded as interference with a federal officer, a felony offense.

While no county has yet dared to arrest the local BLM agent for enforcing grazing laws, county ordinances can easily intimidate federal employees in isolated rural communities. The New Mexico Game and Fish Department, for instance, dropped its plan to reintroduce desert bighorn sheep in the Caballo Mountains partly because the Sierra County Commission in-

sisted that the plan conflicted with its "culture and custom." The reintroduction of bighorn would have required the closing of roads on Caballo Mountain, and, as County Attorney James Catron (whose forebears gave their name to the neighboring county) explained, "our civilization depends on roads."

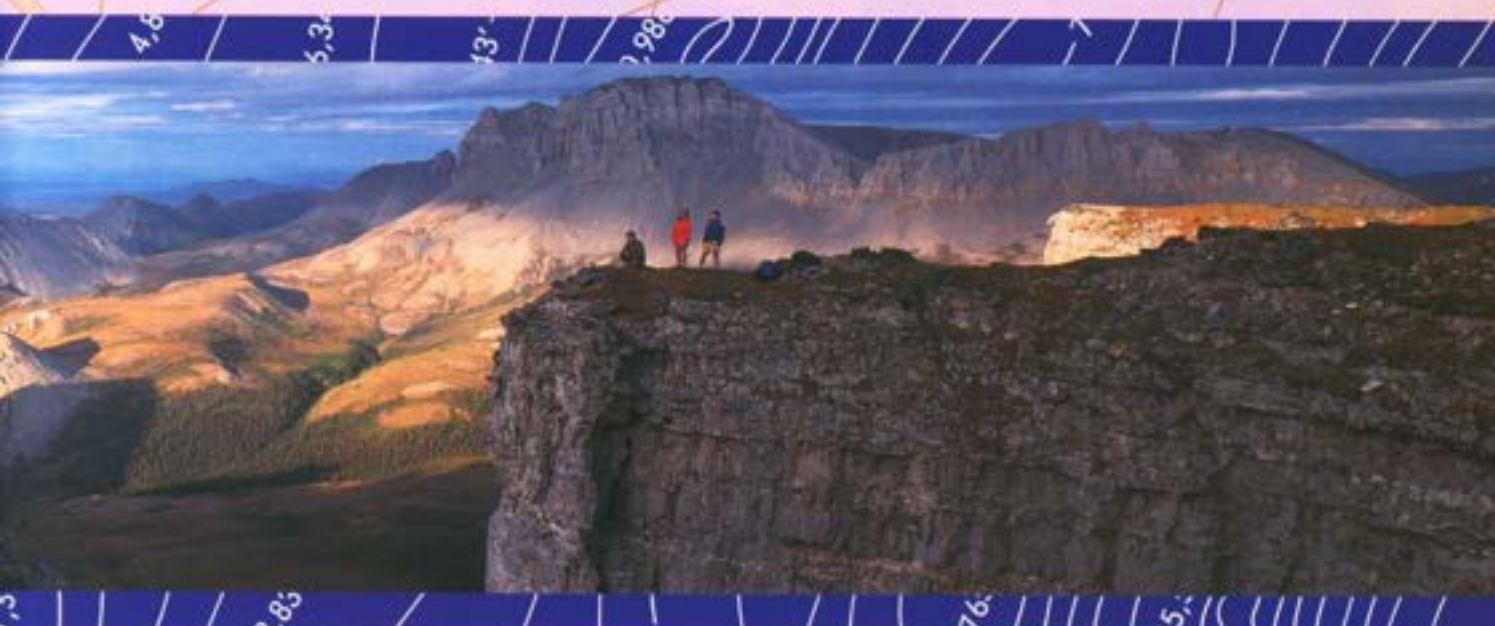
Karen Budd now insists that her custom-and-culture ordinances "never claimed to have veto power over the federal government." (Any impressions to the contrary, she says, arose because Catron County "wanted to make a splash.") "People are frustrated," she says. "No one ever bothers to talk to these rural citizens. The county-government movement is the only way we're going to avoid bloodshed in rural areas."

But according to a comprehensive report by the Southwest Environmental Center in Las Cruces, New Mexico, these are not just the Little People speaking up for the first time. "The movement's success thus far is

attributable in large part to targeting small counties where everyone knows everybody, where ranchers are powerful and run the government, and where the social and financial costs of dissent can be great," the report concludes. "To stand up at a county hearing and speak out against ideas championed by your neighbors is to risk ostracism, boycotts, even violence." When the emperor has no clothes, it's not always healthy to point it out.

A side effect of the County Movement is the pernicious equation of "culture" with the destructive economic practices of a small segment of the community. Fremont County, Wyoming, for example, has the largest ranching population in the state, but even so its 1,862 cowboys are greatly outnumbered by 6,222 Indians. "In a county where the resident Indian tribes have unique languages and political, religious, social, and judicial systems," asks Debra Thunder, a reporter for the *Casper Star-Tribune*, "what special characteristics give an occupation like

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## PRIORITIES

ranching status as a culture?" The commissioners of Uintah County in Utah weighed in to clear things up for her: "If the predominant economic base of the county is timber, oil, gas, mining, and grazing," they replied, "then that is also your predominant custom and culture that you better be willing to defend whether you like it or not."

It's easier to defend county ordinances in small-town newspapers than

in court. In a letter to his superiors in Washington, Assistant U.S. Attorney John Zavitz in Albuquerque reported that even "the [Catron] County Attorney indicated that he had substantial doubts about the validity of the ordinances." Their primary impetus, he said, "is coming from an informal association of politically influential ranchers." In Okanogan County, Washington, prosecuting attorney Michael McNeff gently tried to explain to his county commissioners that the

U.S. Constitution's Supremacy Clause gives primacy to federal law. "When words like 'the federal government shall' are used [in local ordinances]," he suggested, "any attempt to carry out the policy which follows the word 'shall' will be very difficult." (Even so, McNeff reckoned he could try to defend the ordinance—given an extra \$300,000 or so a year for legal and administrative expenses.) And in a "letter of advice" to inquiring counties, Montana Attorney General Joseph Mazurek spelled it out as plainly as he could: "Counties lack the power to enact land-management ordinances for federal and state lands which conflict with federal and state law."

The only reason the County Movement has not been laughed out of court is that it has thus far avoided going there. Last year Lincoln County, New Mexico, withdrew a lawsuit against the BLM that demanded enforcement of the county's "custom and culture" ordinance, disappointing Sierra Club activists in the Southwest who had hoped for a definitive ruling. All eyes are now turned to Boundary County, Idaho, where environmentalists are challenging an ordinance nearly identical to Catron County's.

Scott Reed, the Coeur d'Alene attorney representing the environmentalists, jokes that custom-and-culture ordinances "ought to be attacked under the Consumer Protection Act." Boundary County's ordinance came about, he says, when a prominent resident attended an NFLC seminar (\$45) in Idaho Falls and bought "the kit" (\$95), a packet of materials "to empower your county government so the federal agencies have to protect your custom, culture, and tax base." Also available are a "litigation strategies" packet for \$79.95, a video seminar on "private rights in federal lands" for \$185, and a "patriotic and moving painting of the signers of the U.S. Constitution" for \$49.95. County cowboys could save themselves a lot of money by reading the latter document before a judge has to read it to them.

—P.R.

► For more information, see "Resources," p. 72.

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The North Star at anchor in Khutze Inlet

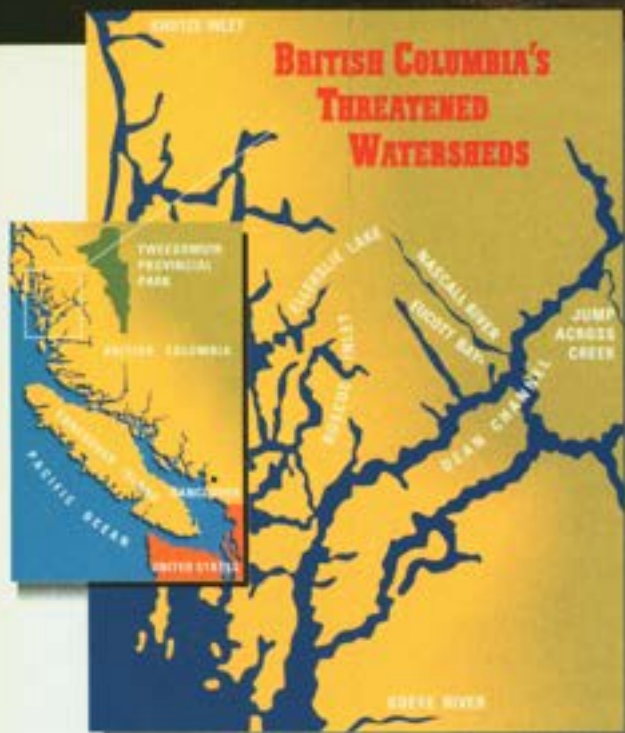


# Before the FALL

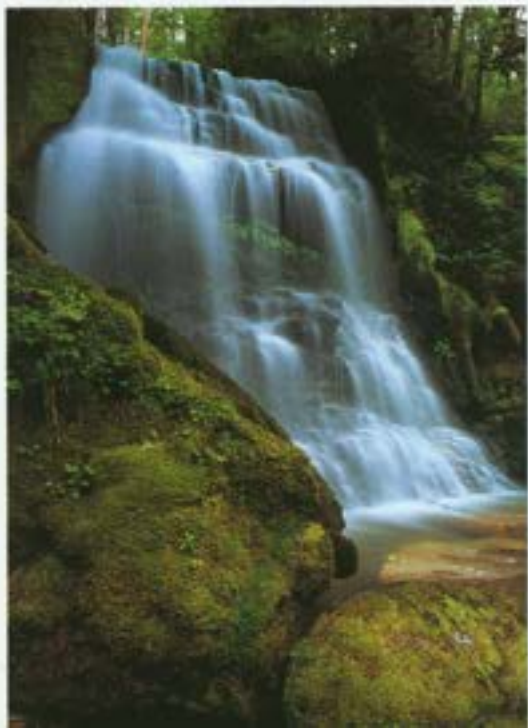
**L**ast summer the North Star, a 60-foot three-masted schooner, glided through a chain of pristine inlets and bays along the remote mainland coast of central British Columbia. The team of conservationists, scientists, and journalists aboard aimed to focus global attention on the region's spectacular (and gravely endangered) temperate rainforests, and to record in words and images what may well be lost to the chainsaws over the next few years.

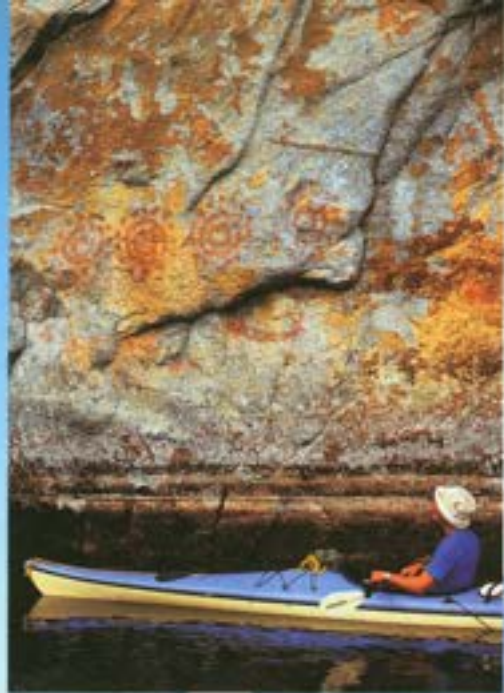
The attitude of the government of British Columbia toward these forests is characterized by ignorance, disdain, and neglect. Officials parcel them out to the timber industry with no regard for the natural and cultural values they embody, nor for the rights of their indigenous inhabitants. The offense is compounded by the brutal logging methods used. This is the very antithesis of sustainability. This is pure ruin.

Having already wrought havoc on the province's most accessible forests, the timber barons and their bureaucratic servants would prefer to keep these lesser-known places hidden from view. Absent massive public protest, they will be able to invade B.C.'s last remaining unlogged watersheds, get out the cut, and leave. That needless, dirty work has already begun in some of the locales shown here. To stop the destruction, we must break the silence.

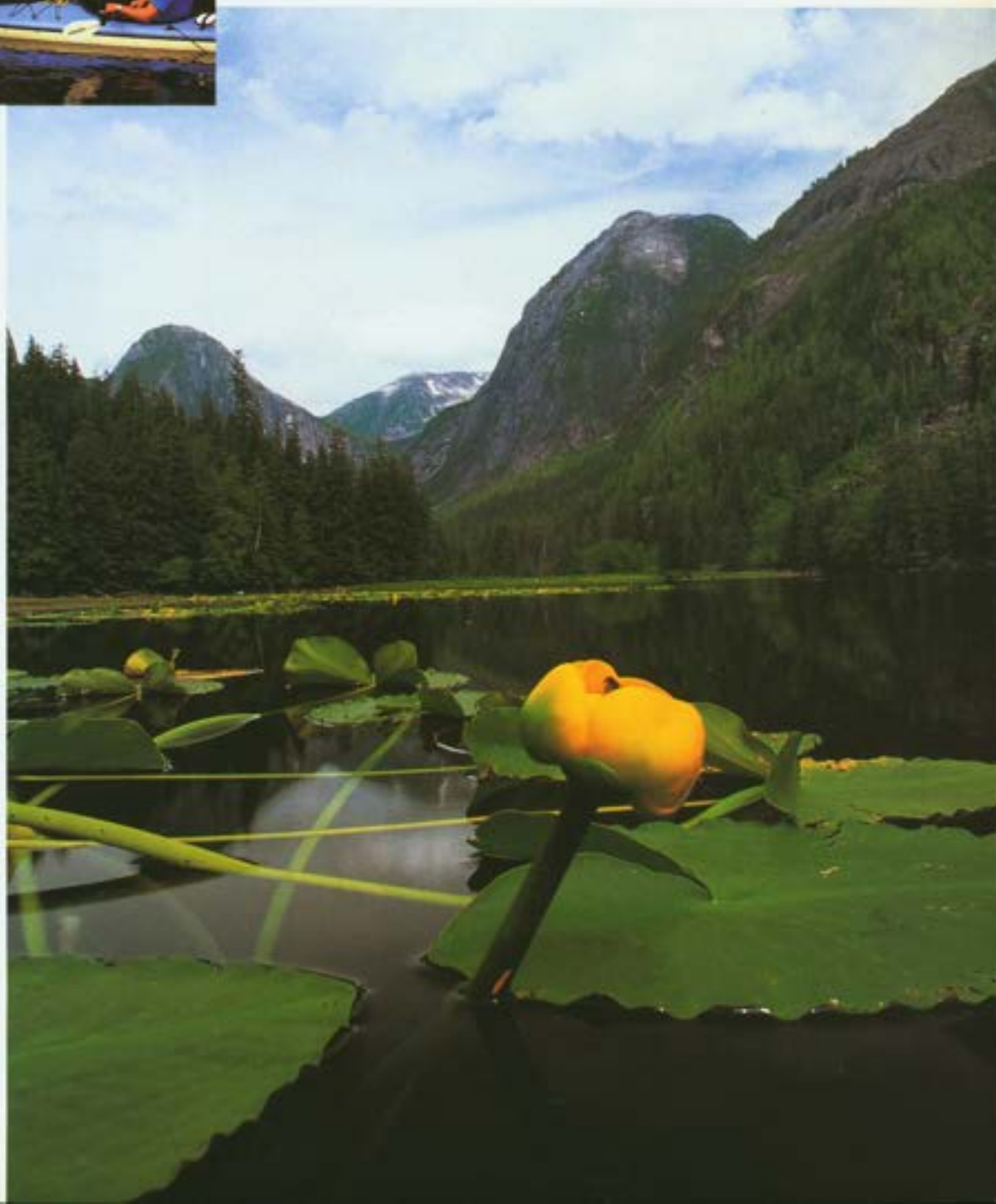


**T**he watersheds explored by the North Star are rich in scenic beauty and recreational potential. Several are central to the lives of local Native cultures as well. Roscoe Inlet (above), with its Yosemite-like cliffs, is in the heart of the ancient homeland of the Heiltsuk people. Its forests, already wounded by small-scale hand-logging operations, now face a greater threat from industrial timber operations buzzing toward them from neighboring watersheds.



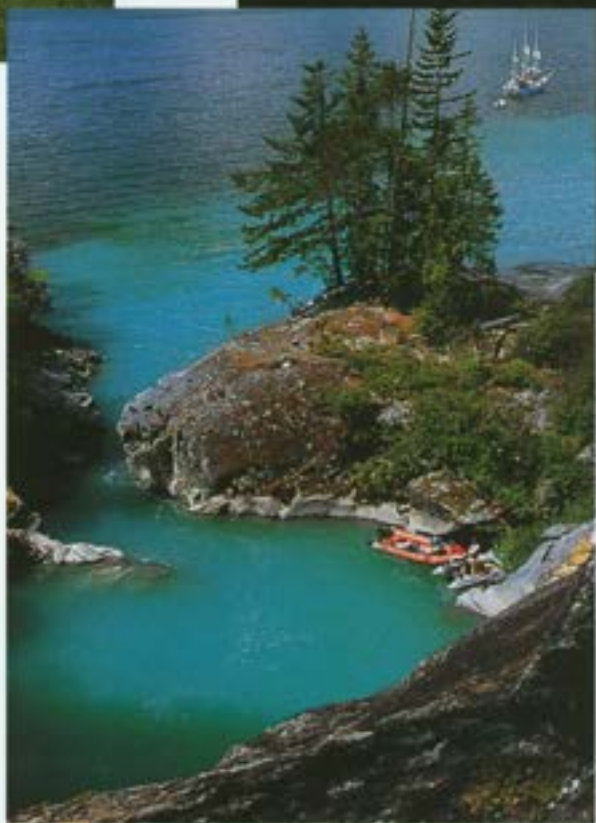


**T**he meaning of Ellerslie Lake's pictographs (left) is lost in antiquity. All too clear, however, will be the impact of the clearcutting planned for the area surrounding this majestic freshwater fjord (below, this page; bottom right, facing page) over the next few years. Like Roscoe Inlet, this region is of critical importance to the Heiltsuk—who have scarcely been consulted by the provincial government about the fate of the forests on which they depend.

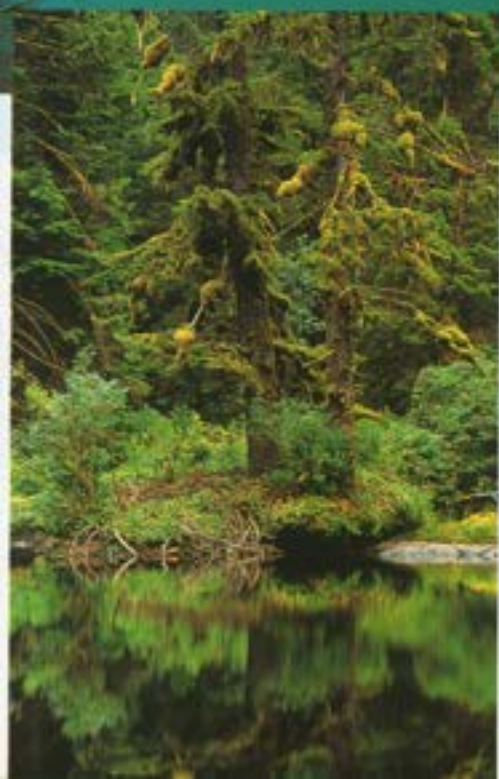




**A** crystalline pool marks the mouth of Jump Across Creek (right) where it meets the main body of Dean Channel, the region's primary waterway. The opening is just wide enough for a zodiac launched from the schooner to squeeze through. This stunning site remains unmarred by logging—though the same cannot be said of nearby Eucott Bay, where tranquil scenes like the one above belie the chaos just beyond camera range. There helicopter-logging operations have stripped a mountainside forest opposite medicinal hot springs valued by the Heiltsak for generations. The silted-up springs are now virtually unusable; adding injury to insult, an important marine nursery has been badly degraded in the process.







**L**ogging is taking its toll on slopes all along the Dean Channel, although some sites (such as the Nascall River area, top) are safe for the time being because of their inaccessibility and questionable timber value. Such safety can be relative, however, even when formal protection is granted. The upper Kooey River watershed, where roadbuilding and clearcutting began in 1990, has been temporarily set aside under the provincial Protected Area Strategy program. But some observers are skeptical: "If all goes normally for British Columbia," says forest activist Peter McAllister, "the suspension will be lifted in the next year or two." When that happens, the thriving Kooey forest (left) will become just another clearcut, like the one at Spiller Channel (above)—the grand entrance to the Ellerslie Lake region—and one of the planet's richest temperate-rainforest strongholds will be devastated. ■  
For more information, see "Resources," page 72.

# Botanical BARBARIANS



THEIR GOOD LOOKS CONCEAL NEFARIOUS INTENTIONS:  
HOW INVASIVE SPECIES RUN ROUGHSHOD OVER  
NORTH AMERICA'S NATIVE PLANTS.

BY ROBERT DEVINE



As part of a coastal-sage-scrub restoration project, volunteers slash and pile invasive ice plant at a state park in Southern California (above). Inland, a battalion of pretty (but pernicious) Scotch broom covers a hillside in San Bernardino National Forest (left).



**A**BOVE OUR HEADS THE SUN FLASHED THROUGH the tattered canopy of redwoods, oaks, and maples. Below our feet the cast-off leaves of autumn crackled and crunched. Shirt-sleeve, Indian-summer weather and the luxuriant natural beauty of a Big Sur glen elevated our short walk from outing to idyll.

Of course that was before the carnage started.

While heading down the central California coast, my three companions and I had stopped off at Andrew Molera State Park to meet with Judith Goodman, a local conservation activist. She was taking us to look at

the vegetation project on which she and a few other area residents had been working. When we reached the half-acre site, just a few hundred yards up a hillside from Highway 1, Goodman and I stood around and talked about their efforts. My friends listened briefly, but, compelled by a zeal whose depth I didn't yet fully appreciate, soon began gravitating one by one to a nearby stand of handsome, basketball-hoop-high shrubs.

Goodman and I continued to talk, but we found ourselves distracted. There was Dan Gluesenkamp, hanging from the bowed top of one of the shrubs, seeking



One of the most inexorable exotics, kudzu (shown here devouring Gainesville, Florida) was widely planted in the South during the 1930s to control erosion.

better leverage as he struggled to rip the two-inch-thick plant out of the ground. Behind him, flailing about in a dense thicket, Greg Gaar braved abundant poison oak in order to savage some offending bushes. A few yards up the hill, Jake Sigg knelt beside a whopping specimen too big to uproot. With his knife he deftly carved long strips of bark from around its base, mortally girdling it. The plant would die within weeks.

Gripped by the prevailing fervor, Goodman joined in. After all, annihilating these shrubs was the point of her project. Wielding a Weed Wrench™—a four-foot-long gizmo

like a mutant pipe wrench that was almost as tall as herself—the petite Goodman began prying out plants with a vengeance.

The target of their onslaught was French broom. A perfectly well-mannered shrub in its European homeland, French broom is usurping habitat and ousting native plants all along the West Coast. Like any species found outside its home range, French broom is labeled “exotic,” “alien,” “non-indigenous,” or “introduced.” Along with foreign animals and microbes, nonindigenous plants are considered by a growing number of scientists to be a neglected environmen-



tal problem of the same magnitude as wildlife habitat loss, pollution, and global climate change.

The harm done to agriculture by alien plants has long been recognized. Nonindigenous weeds cost U.S. farmers \$3.6 billion to \$5.4 billion a year in crop loss, soak up \$1.5 billion to \$2.3 billion worth of herbicides annually, and comprise 50 to 75 percent of the major crop weeds in the nation, according to estimates by the congressional Office of Technology Assessment. But damage done to natural areas by alien plants has been largely overlooked, because the costs can't easily be rendered in dollars.

Plants have strayed from their native territories since vegetation first greened the planet, but so infrequently as to be insignificant. It wasn't every day that a seed hitched a ride in a bird's feathers and dropped into a receptive site far from its original home. Even when the occasional migrant did show up, it seldom had much impact on its new community; most nonindigenous plants aren't pests, and healthy, intact ecosystems generally resist and repel intruders.

It was the advent of agricultural civilization that initiated invasions by exotic plants. As humans raised more crops and traded more widely, the exchange of plants increased. And because most exotics fare best in disturbed areas, the spread of tilled fields and overgrazed pastures greatly increased the chances of success for nonindigenous plants.

Still, plant invasions didn't really boom until the last 500 years or so—the explosive modern era of human expansion. Not only have Earth's ecoregions been disrupted at an increasingly rapid rate, but the surge in trade, travel, and migration has greatly accelerated the spread of plants to places they never would have reached without human assistance. As the eminent British ecologist Charles Elton wrote in 1958, "We must make no mistake: we are seeing one of the great historical convulsions in the world's fauna and flora."

The breadth of the invasion in the United States is unnerving: 4 million acres of knapweed from Europe in Montana; kudzu from Asia, so widespread in the southern states that it has been called "the vine that ate the South"; hoary cress galloping across the West at 2,000 acres a day; noxious

weeds such as Canada thistle (originally European) bristling across the northern states from Maine to Washington; water hyacinth from South America thriving in waterways throughout the Gulf Coast states; cheatgrass, perhaps America's most troublesome invasive plant, degrading native communities throughout the West and dominating tens of millions of acres of grasslands in the Great Basin; and all sorts of invaders in Hawaii, our nation's ecological basket case, where there are now as many exotics as native plant species.

During our 200-mile journey along the California coast, we saw dozens of nonindigenous species. Sigg, who chairs the California Native Plant Society's invasive-exotics committee, began pointing out notable interlopers the moment we hit the road: French broom, Scotch broom, pampas grass, ice plant, eucalyptus.

What most worries Sigg and other conservationists is the impact of introduced plants on biodiversity. At first glance this seems contradictory: wouldn't the addition of exotics *add* to diversity? In some cases, yes. Sometimes an alien species will slip into a community and quietly persist there. Immigrant plants like ground ivy and butter-and-eggs have always behaved

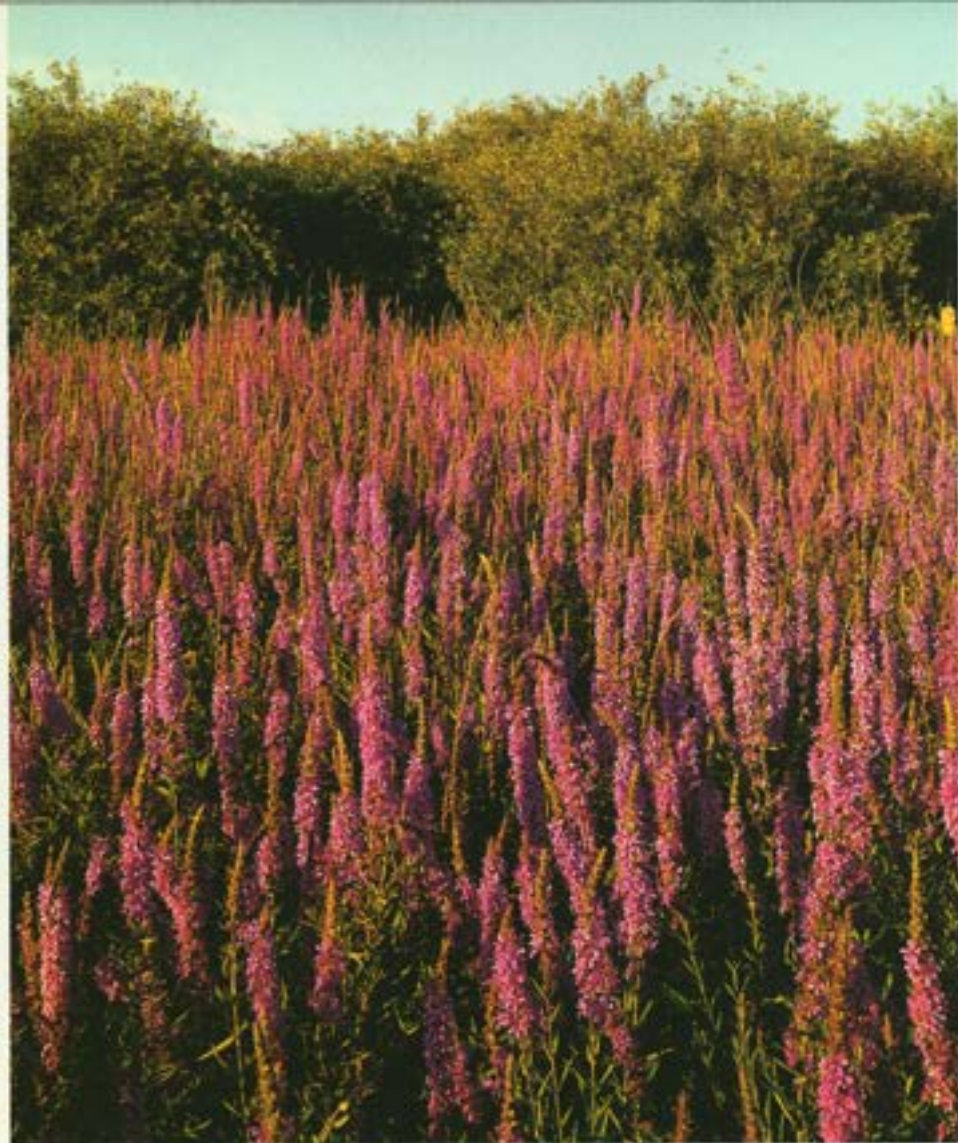
demurely in their adopted midwestern homeland. But often an exotic will displace a native species. And sometimes it turns out to be a territory-gobbling imperialist, forcing out entire complexes of native species and simplifying plant communities to the point of impoverishment.

Don Schmitz, an aquatic biologist with Florida's Department of Natural Resources and a leader in the war on exotic plants, cites the paperbark tree. This Australian native infests half a million acres of the Everglades Conservation Area (a protected area bordering Everglades National Park) and is swallowing an additional 50 acres of wet

**Seeds of discontent (left to right): a eucalyptus wind-break on a California island; tamarisk (salt cedar) streamside in Capitol Reef National Park, Utah; paperbark in Big Cypress National Preserve, Florida; cheatgrass in the Great Basin; Brazilian pepper in Florida; pampas grass along the California coast.**

**IN THE LAST TEN YEARS  
WE'VE PROBABLY LOST  
MORE HABITAT TO EXOTIC  
PLANT SPECIES THAN TO  
DEVELOPMENT.**





Purple loosestrife, one of numerous pesky plants not listed by the Federal Noxious Weed Act.

prairie a day. A pristine wet-prairie community contains 60 to 80 species of plants. After paperbark takes over, the total plummets to three or four. Due to the ripple effects from the loss of vegetation, paperbark forests are eerily quiet: virtually no insects, birds, or other animals can be heard. A paperbark forest is "for the most part biologically dead," says Schmitz. "In the last ten years we've probably lost more habitat to exotic plant species than to development."

That goes for the five central California exotics that Jake Sigg pointed out through the car window. Timber companies brought in eucalyptus to start tree plantations. Ice plant was established by the Southern Pacific Railroad to prevent erosion along train tracks. French broom, Scotch broom, and pampas grass entered the country as ornamentals. (I cringe when I remember the pampas grass my family planted in our backyard when I was a kid. Come to think of it, we

Exotic plants affect such vital characteristics of an ecosystem as surface temperature, the pace of erosion, and the rate at which nitrogen is cycled. One introduced ice-plant species on the West Coast draws salt from the soil; after it dies it leaves the topsoil poisoned for years. Tamarisk trees take in so much more water than the native plants they displace that they have desiccated southwestern and Californian desert wetlands. The frequency of fire on cheatgrass-dominated lands has increased from once every 60 to 110 years in pre-cheatgrass days to once every three to five years today.

**A**IDED AND ABETTED BY humans, plants slip into foreign territory in infinite ways. Exotic seeds might be mixed into a grain shipment, enter via the ballast of a ship, find their way into a sack of bird seed, or fall from the cracks of well-traveled hiking boots. The majority of exotic plants got where they are today, however, because somebody put them there.



planted eucalyptus and ice plant, too. I wonder how we overlooked the brooms.)

As their common names suggest, many of the exotic plants that land on American soil hail from Europe, supplemented by a fair number from the Mediterranean basin and Eurasia. This isn't coincidental. The continents share similar climates and soils, and over the centuries countless people and products have flowed east to west across the Atlantic.

The provenance of invasive plants is significant. Because many of the most destructive species evolved for thousands of years alongside humans, these plants acquired characteristics that make them formidable competitors, such as the ability to flower early, to produce many seeds, to grow quickly, and to germinate under a broad range of conditions.

To some degree such tough and aggressive plant species are held in check in their home regions by equally tough and aggressive competitors and predators, mainly insects, that have evolved along with them. But ship them beyond their natural range, away from those familiar constraints, and they're primed to run wild, especially where we have already made wholesale alterations of the landscape.

Disturbance promotes invasion in complex and poorly understood ways that vary from species to species, but the basic process can be grasped by a look at cheatgrass in the intermountain West. In the beginning there's a native high-desert grassland community of two or three dozen plant species dominated by bunchgrasses. In the sparsely vegetated spaces between the distinct clumps of bunchgrass lies a brittle coating of mosses, lichens, and other organisms called the cryptogamic crust. This community was not inhabited by bison and therefore is

not adapted to frequent grazing and trampling by herds of large herbivores.

Enter cattle. First, cows shatter the cryptogamic crust with their hooves, providing openings in which cheatgrass takes root and outcompetes native bunchgrass seedlings due to the greater growth rate of cheatgrass. But the community still confines cheatgrass to the interstices because

the mature bunchgrass plants can hold their own in the battle for resources, though with some difficulty after being weakened by the unaccustomed intensity of cattle grazing.

Sometime after the cheatgrass has established its beachheads, however, the cattle come through again, munching cheatgrass and native grasses alike. After a second round of heavy grazing the bunchgrasses are severely stressed, while the opportunistic cheatgrass grows back with relative ease. In this way cheatgrass gains ground each time the land is grazed. This cycle is repeated until cheatgrass fills in most of the open spaces. This filling in, combined with the fact that cheatgrass dries out earlier than the native grasses and ignites more easily, makes the community liable to burn soon and often. Fire, in turn, constitutes yet another disturbance from which cheatgrass recovers better than natives, further promoting the expansion of this invader.

I saw the woeful result of this downward spiral in southern Idaho a couple of autumns ago. In many places stands of bristly yellow cheatgrass—10,000 plants to the square meter—stretched to the horizon. These monocultures provide no cover for jackrabbits (and thus no prey for golden eagles), no winter forage for elk, and, ironically, poor forage for cattle except during a short period in the spring.

Facing such homogenization of the landscape, conservationists often find consolation in the fact that undisturbed natural areas resist exotics. Some of that consolation is warranted, but not much, because the vast majority of acreage in the United States falls somewhere between cultivated land and unspoiled wilderness. National parks, BLM lands, national and state forests, wildlife refuges, and semi-wild



Native and endangered: a Hawaiian gardenia.

**Alien invaders surround us (left to right): spotted knapweed in Wisconsin; multiflora rose in Maryland; water hyacinth chokes the Everglades. Among Hawaii's floral infiltrators: passion flower, orange trumpet vine, and night-blooming cereus.**



private lands are all affected to some degree by grazing, logging, mining, agriculture, off-road-vehicle tracks, railroad right-of-ways, or roads. (Jake Sigg likens these last three intrusions to wounds in the body that allow the entry of pathogens.) Even such minor disruptions as trails and campsites provide footholds for exotics. Perhaps most significant, because the American landscape has been so fragmented by development, many natural areas are adjacent to, if not surrounded by, flagrantly altered ecosystems. The Everglades, for instance, share long borders with sugarcane fields, ranchlands, and urban areas, all staging grounds for exotic plants, so the edges of the wild places are under constant attack. Ominously, through brute competitive force some exotics can even push their way into totally undisturbed areas.



Judith Goodman wields her weed weapon on French broom in California's Andrew Molera State Park.

**W**HILE THE INTRUSION of exotic plants can seem overwhelming, there are at least partial solutions. Many people embrace the straightforward approach—yank the suckers out. Greg Gaar epitomizes this hands-on ethic. Something approaching anger powers his wiry frame when he hurls himself at a hated invader. Perhaps in part he is trying to atone for the time, years ago, when he unwittingly planted a great many exotic trees in the open spaces near his San Francisco neighborhood. When he later learned of the dangers they posed, he was horrified. Ever the man of action, he began cutting down the trees he'd planted. When an outraged resident complained to the city, Gaar simply turned nocturnal. The threat of a lawsuit finally stopped him last year, but not before he'd bagged most of his offensive trees. Now the city wants him to do

trigued, I grabbed hold of a wrench, waded in, and was soon thrilling to the rhythmic ripping of roots.

Unfortunately, weed-bashing has severe limitations. During the last several years, although volunteers have logged more than 20,000 hours in the GGNRA, only some 60 acres have been restored. Crews have to return to the same sites repeatedly to ensure that they stay alien-free. Even mowing, plowing, bulldozing, and other mechanical means of control are useful mainly to protect a few critical

some \$4,000 worth of community service to compensate for the lost foliage. Gaar offered to put in the time by pulling French broom, but he was refused because city officials felt he would enjoy that too much.

Gaar sometimes joins the Habitat Restoration Team, a band of half a dozen to half a hundred volunteers who gather every Sunday in the Golden Gate National Recreation Area (GGNRA), near San Francisco, to go broom-bashing. I accompanied them one morning as they labored astride a sunny ridge above Tennessee Valley. Uprooting broom with weed pullers is hard, sweaty work, but most of the bashers were clearly savoring it. One volunteer told me that the satisfaction stems from doing something more concrete than writing a letter to a senator. Another basher said that feeling the roots tear and finally give way produces an almost sensual pleasure. In-

**Left to right: crystalline, an introduced ice plant that will leave the soil poisoned after it dies; English ivy smothering local flora; Canada thistle, a European native that has crept its way across the northern tier of the continent.**





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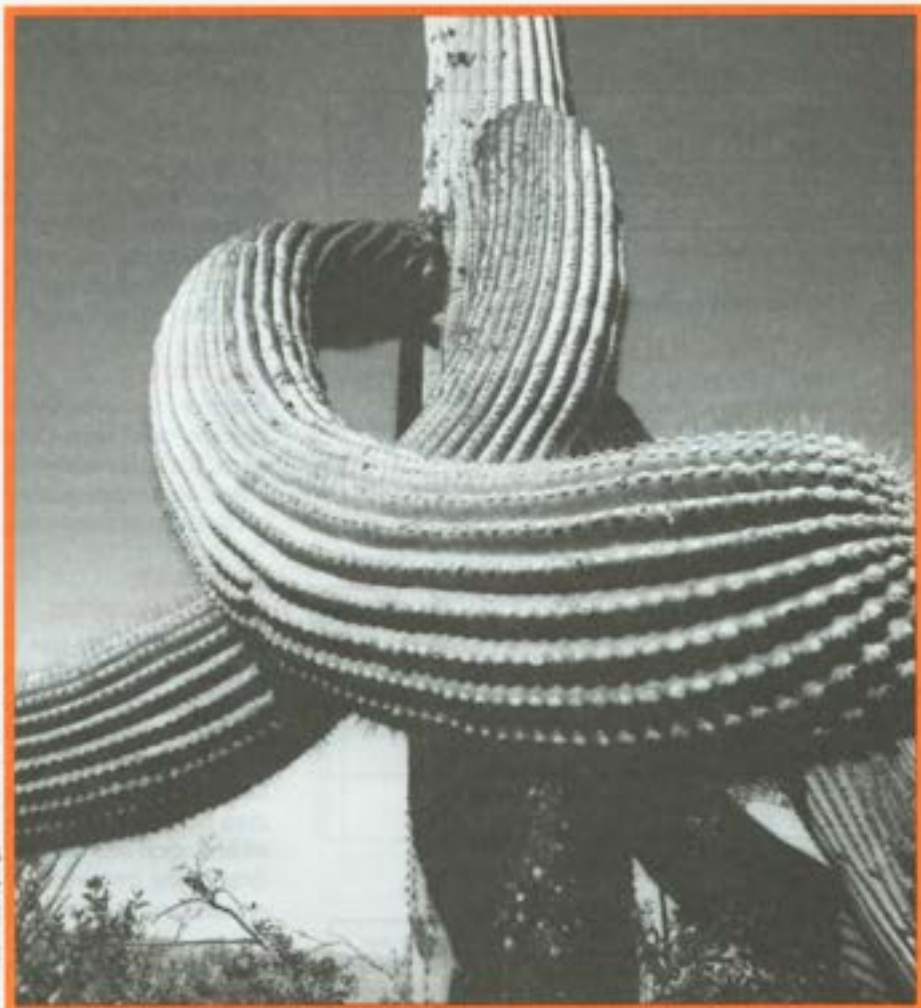


Photo © Jack O'Keefe



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sites, such as desert springs, and to remove satellite populations of invasive exotics before they can spread. But using hand tools to go after some vast exotic blight, such as half a million acres of paperbark trees, would be like trying to clean up a toxic-waste dump with a toothbrush.

There are other, more sweeping ways to deal with alien plants, but they're more controversial. Dan Gluesenkamp, himself a plant ecologist, brought up the most disputed method as we were walking through, of all places, the manicured landscape of a shopping center. Passing a French broom plant radiant with yellow blossoms, he muttered, "Isn't that pretty? I wish I had some Roundup."

This from the lips of a dedicated conservationist? Roundup is an herbicide. Most of those battling exotic plants occasionally use herbicides. With varying degrees of distaste, every single one of the dozens of biologists, land managers, and activists with whom I spoke considered judicious herbicide use a lesser evil than the harm caused by exotic plants. Don Schmitz, the Florida aquatic biologist, asserts that some environmental groups have been reluctant to rally against the alien invasion partly because of their aversion to herbicides. This irritates him greatly. "What the hell do they really want?" he asks. "Do they want a short-term environmental insult or a long-term ecological catastrophe?"

Many environmentalists nervous about herbicides place their hope in biological control. Remember those equally tough and aggressive predators that exotics left behind at home? Biocontrol usually involves recruiting one or more of those insects and plant diseases and turning them loose on their co-evolved prey. This is an elegant solution because it's nontoxic and, in theory, the imported hit-bugs rub out only the targeted alien species. Indeed, biocontrol has achieved some notable successes. For example, two South American weevils and a South American moth brought in by the USDA have helped kill about a million acres of water hyacinth in the South. Biocontrol currently is the only non-herbicidal method that works on such a large scale.

But biocontrol is no cure-all. Many exotic species aren't amenable to it; sometimes the recruits turn out to be duds; and it's often difficult and expensive to find the right agent—four to six years of research carrying a price tag of \$1 million for each target alien is typical. Worst of all, the ironic practice of bringing in an exotic organism to control an exotic organism can backfire. Early in this century, for example, rats invaded many Caribbean islands and began killing native birds, so mongooses were brought in to kill the rats. But the rats are nocturnal and the mongooses diurnal, so the mongooses sought other prey, including the native birds.

Fortunately, biocontrol's record has improved tremendously since then. Unfortunately, biocontrol has not been

well-supported; in recent years, even as alien plant problems have increased, funding for biocontrol has decreased.

Prevention, too, should be part of the solution. Probably the most important measure would be to curtail the disturbances that lay out the welcome mat for alien species. The spread of cheatgrass, for example, would be greatly slowed if relatively intact native grassland communities were protected from overgrazing and from an unnatural fire regime. Instead of returning cattle to a grazing allotment as soon as the animals' favorite forage has recovered, the land should be permitted to rest until the entire native community has returned to full strength. And fires could be subdued somewhat by expanding the BLM's greenstripping program, which aims to shrink range fires by dividing cheatgrass lands into parcels separated by firebreaks planted with vegetation that resists both cheatgrass and fire.

A more narrowly focused preventive measure would be to restrict or halt intentional introductions. Many government agencies, including the U.S. Forest Service, the BLM, and state highway departments still plant invasive exotic species. There's even an artificial pond containing purple loosestrife, a notorious wetland-infesting exotic, in front of the Interior Department's Washington, D.C., headquarters—just a strong gust from the Potomac. Nurseries also knowingly spread alien species that pose a threat; their catalogs and greenhouses offer many infamous invaders, such as porcelain berry and autumn olive. It's all too common for such species to escape from gardens into natural areas.

Restrictions on intentional introductions might be voluntary, such as those adopted by the Illinois Department of Conservation that direct state nurseries to use native plants and avoid nonindigenous species. Restrictions might also be dictated through laws such as the Federal Noxious Weed Act, which attempts to prevent destructive alien plants from entering the United States and to eradicate problem species before they get out of hand. Additions to its list of noxious weeds would be a good start; so far only 94 species have made the roster, a scant one-tenth of the plants that are recognized agricultural pests. And you'll find only one species—paperbark—that harms natural areas primarily.

Land managers could avoid a lot of grief if they would recognize and deal with exotic invasions early. Heed the sorry tale of the Brazilian pepper tree. In 1957 an Everglades National Park biologist noticed a Brazilian pepper growing alongside a park road. One tree, no problem, he noted in a letter to the park superintendent. Today Brazilian pepper dominates 100,000 acres of the park. In a 60-acre experimental plot, biologists tried everything to get rid of Brazilian pepper, but the only treatment that really worked was bulldozing the site down to bedrock. While native plants are recolonizing the area, the project ended up costing more than

*Continued on page 71*

**WE'LL NEVER SHUT  
OUT NEW INVADERS  
COMPLETELY, NOR  
ERADICATE ALL THOSE  
ALREADY HERE.**



*T*wo years ago we at *Sierra* discovered old-growth in our pages —

not as the subject of our environmental coverage, but in

# Mea Pulp

the very paper the magazine

was printed on.

That shocking revelation sent

Sierra Club staff and volunteers

on a two-year-long quest for

the perfect magazine paper.

To get it, we learned, we would

need to change not only

ourselves but also the powerful

pulp-and-paper industry.

## EDITOR'S NOTE

In 1991 freelance writer and Sierra Club staffer John Byrne Barry came to us with an intriguing notion: to write an article called "The Dark Side of Magazine Publishing." We'd often pilloried others for their environmental sins, but had never probed our own too deeply. We decided it was about time.

In retrospect, we should have been more nervous than we were. "To get this magazine into your hands," Barry wrote in the story he turned in a few months later, "we had to clearcut old-growth rainforests in British Columbia, dump toxic chlorine compounds into rivers, and pump smog-producing chemicals into the air. Of course, we didn't do it ourselves. We paid people to do it for us."

"Who—us?" we protested. After all, *Sierra* was the first large-circulation magazine in the country to switch to recycled paper—the honest kind, made with real post-consumer waste. We did all kinds of virtuous little things, too, like buying recycled office paper and using it on both sides before re-recycling it. We were printing Sierra Club promotional inserts on recycled stock. For our pains, we were viewed as an environmental leader in magazine-industry circles.

All of this was true, but so were Barry's accu-

BY JOHN BYRNE BARRY

Illustrations by David Flaherty

sations. The printing, paper, and pulping facilities we depended on were far from benign. And, to our horror, we found that Barry was right about our odious British Columbia connection. While Sierra Club activists had been working steadfastly to save ancient forests in the province, the magazine had been unwittingly fueling the demand to cut them down. It was hypocrisy, pure and simple.

We decided to use Barry's disturbing findings as a spur to change. We began by meeting with Sierra Club staff and volunteers from around North America who specialize in forestry and toxics issues. We hired an environmental chemist, who helped us sort out the complex technical issues surrounding chlorine bleaching of paper pulp. We also held a series of discussions in our San Francisco headquarters among our staff and activists and the kind of people they usually meet only in court: representatives of big paper corporations such as Repap (our current supplier), James River, Niagara, Mead, Weyerhaeuser, and Simpson, and their trade group, the American Forest and Paper Association.

Some companies turned down our invitation because they feared we'd take verbal potshots at them. They need not have worried: how could we afford to hurl accusations when we ourselves were part of the problem? The sessions were more like a Polluters Anonymous meeting than a day in court.

One message came across again and again in our investigations. At present, there are no 100-percent ecologically sound choices for the publishers of magazines printed, as ours is, on coated paper—only difficult compromises. Publishers will soon be able to purchase chlorine-free paper in North America, for instance, but only if they are willing to support the questionable logging practices of the firms that supply those papermakers. Or they can get paper from pulp grown in well-managed second-growth forests—but it will not be chlorine-free. Even the recycled-paper symbol, we found, is not an unassailable badge of environmental integrity, for recycled pulp's weaker fibers are often supplemented with long, strong, chlorine-bleached fibers from softwood forests just like those we were using in British Columbia.

But if totally guilt-free publishing has proven impossible, we're happy to report that environmental progress has not. With the help of our industry and activist advisors, we at *Sierra* have at least found our way out of the B.C. woods. We have also been able to increase the recycled content of our paper, turn newsstand extras into usable products, and convert to a recyclable binding adhesive and to ink with reduced petroleum content—innovations that are shrinking our overall waste and pollution, albeit at an extra cost of a quarter of a million dollars a year. Although on some days we still feel more apologetic than proud, we have earned a place "at the cutting edge of print and paper technology," according to a July 1993 article in *Publish* magazine.

"The Sierra Club is pushing a lot harder than anyone else in the whole printing and manufacturing business," Bruce Vogen of Leslie National Paper told the magazine. "They're helping create demand, which drives technology and brings prices down. It's a pretty simple equation."

There's still a problem, though. We are just one magazine. We have the will but not the muscle required to move the pulp-and-paper behemoths. Our recent efforts may be increasing demand for environmentally sound magazine paper, but not enough to guarantee a supply of the chlorine- and old-growth-free paper we want.

A lesson we learned recently gives us hope, however. In early 1990 the paper industry said that recycled paper for magazines like ours was five to ten years away. But after the ecological consciousness-raising surrounding Earth Day in April of that year, publishers (including *Sierra's*) were deluged by bags of angry letters from readers demanding change. Suddenly, paper mills grew more responsive than insiders had thought possible. In the fall of 1990 we were able to obtain the high-quality recycled paper we wanted.

We're publishing John Barry's updated article—a report on our progress and continuing challenges—in large part because it just might help generate another, more sophisticated round of letters to publishers. At least we hope so. We need a bigger crowd at the cutting edge.





In recent years the magazine industry has made an effort to be more environmentally conscious. The most obvious sign is the widespread switch to recycled paper among the "glossy" magazines—those that use clay-coated paper to showcase their art and photographs and to meet advertisers' reproduction demands. (Coated paper's colors are richer partly because more ink can be applied to the page.) By 1992, about a third of all magazines were using some recycled paper, and another fifth were planning on using it within a year.

But recycled paper is hardly the panacea that some publishers and manufacturers make it out to be. The fiber in *Sierra* is at least half "recycled," but unfortunately a substantial percentage of the paper bearing that label has never left the paper mill or printing plant. Instead, it is rejected or unused paper stock, trimmings from envelopes, or wastepaper from printers, most of which has always been recycled anyway. These traditional sources obviously don't reduce pollution or save trees. What does make a difference is the reuse of junk mail, office wastepaper, old newspapers, and the like—in industry jargon, "post-consumer waste."

How much of a difference? By using paper containing 10 to 20 percent post-consumer waste for the past three years, *Sierra* has saved 5,800 trees, 2,403,300 gallons of water, the energy equivalent of 1,408,200 kilowatt-hours of electricity, and reduced air pollution by some 20,600 pounds.

With those savings in mind, *Sierra* is working to boost its percentage of post-consumer waste even higher. One problem has been the limited supply of post-consumer fiber: a few years ago only a handful of de-inking facilities processed this waste for newspapers and magazines. But now at least 16 such plants are on-line or under construction. Once supplies increase, the only limits will be economic (virgin fiber, subsidized by both U.S. and Canadian taxpayers, is still cheaper than post-consumer waste) and technical (some virgin pulp is needed to provide paper durable enough to run on high-speed presses). No one knows exactly how large the recycled proportion could eventually become.

#### FRAGILE FORESTS

Papermakers consume a substantial percentage of the world's timber, including 40 percent of U.S. timber supplies. In some areas, pulp is made mainly from plantation-grown trees and lumber leftovers. In others, diverse forest ecosystems are felled exclusively for pulp. About 15 percent of the pulp produced in British Columbia, for instance, comes from pulp-only operations. That's still okay, says the paper industry, because trees are a renewable resource.

Well, trees *can* be a renewable resource—but forests, especially ancient forests, are not. A pleasant-looking landscape may eventually sprout from the chainsaw rubble, but only

at the cost of a complex wildland community.

In British Columbia, where *Sierra's* paper manufacturer had been obtaining up to 15 percent of the magazine's pulp, loggers aren't merely "harvesting" trees—in most cases the province's clearcut areas haven't had time to recover from their first-round assault. Rather, loggers are allowed to rapidly liquidate magnificent ancient-forest stands. (See "Before the Fall," page 44.)

*Sierra* began discussions with Montreal-based Repap and other papermakers about finding other sources for virgin softwood pulp. After a meeting at the Sierra Club's San Francisco headquarters and a series of telephone negotiations, Repap agreed to produce a special paper that contains no British Columbia pulp. Given *Sierra's* lowly status as the purchaser of little more than 1,000 tons a year from a company that produces 940,000 tons of coated magazine paper annually, this was a welcome accommodation.

The softwood portion of the pulp now comes from New Brunswick, a province with virtually all second-growth forest. *Sierra* does not endorse every aspect of Repap's New Brunswick operations, and is discussing its concerns with the firm's management. But the magazine is relieved to be out of British Columbia's ancient forests.

Cutting will continue in British Columbia, of course. In the long term, one of the best ways to ensure a benign source of virgin pulp for the magazine industry is to join Sierra Club activists in Canada and the United States who have been

*Using recycled paper in magazines is important, but not the panacea that some make it out to be.*

working for decades to ensure sound forest practices in both countries and to ban cutting in ecologically rich areas. Until key primary forests are declared off-limits, timber companies will continue to cut them, for they contain some of the biggest, most valuable trees on the continent.

A few forward-looking entrepreneurs have gone beyond the forest as a source of pulp for paper. It makes good business sense: the demand for recycled fiber is increasing twice as fast as the demand for virgin fiber. With forests shrinking and the timber controversy growing, once exotic-sounding alternatives begin to look attractive. A plant called kenaf, a 14-foot-high relative of cotton and okra, has been touted in industry trade journals as producing nine times the biomass per year of an acre of trees. Even hemp, illegal since 1937, could be in for a revival. Better known as marijuana, hemp was the primary ingredient of most paper until about a century ago. It has many advantages over other cellulose sources: it can be grown almost anywhere, for example,

# Don't Just Read...Write!

## A Guide to Helping Magazines Change the Pulp, Paper, and Printing Industries — and Themselves

**P**aper manufacturers claim there's no demand for more environmentally sound publishing options. To prove otherwise, readers should write to the publishers of the magazines they buy, just as many of you did back when recycled paper first became a conservationist cause célèbre. Ask them to take the steps described below.

But don't stop there, please. Governments need to hear the same message. British Columbia mills will soon be producing chlorine-free pulp, not

because papermakers wanted it, but because the government demanded it. The environmentally friendly ink we now use was developed in response to a Clean Air Act requirement. Magazines will be easier to recycle in the future, thanks to passage of state laws requiring newspapers to use recycled paper. The list goes on, demonstrating the wisdom of supporting the Sierra Club's and other groups' efforts to apply governmental as well as marketplace pressure on the magazine industry.

### FORESTS

Most magazines are still made from trees. Ask publishers to find out where the wood pulp used in their paper is coming from and to tell their suppliers they don't want pulp from old-growth forests or from operations that destroy ecosystems.



### BLEACH

Tell publishers to ask for totally chlorine-free paper, even if they can't immediately get it.

### PAPER

Urge publishers to buy recycled magazine paper with 20 to 30 percent post-consumer content.



PAPER MILL



DE-INKING

### PUBLISHING

Ask publications to design for ease of recycling: no scent strips, cover coatings, or non-paper inserts (records, computer chips that chirp Christmas carols, and the like). Ask them to use recycled, totally chlorine-free paper for inserts and to choose inks that don't contain heavy metals.



### PRINTING

Tell publishers to use inks that are as low in petroleum as technically feasible. Readers should also request recyclable binding glue.



PRINTING

### RECYCLING

Publishers should encourage newsstand distributors to recycle their leftover copies.



### READERS

Publications should ask readers to recycle, explaining that if local recyclers don't take magazines, readers can join together with others in their communities to set up centers that do. Magazines are recyclable.



without pesticides. It does not require bleaching and can produce about four times as much pulp per acre as trees.

On paper-shopping forays *Sierra* has found that affordable tree-free paper isn't available—but as demand grows, that could change.

### BETTER BLEACHING

Chlorine is indisputably useful in papermaking: it bleaches cellulose fibers and unlocks them from lignin, the natural glue that binds wood fibers together. But it's also unconscionably dangerous: chlorine combines with organic materials in pulp to produce hundreds of organochlorines, compounds whose hazards Rachel Carson exposed 31 years ago in *Silent Spring*. Highly toxic and persistent, organochlorines such as dioxins and furans in pulp-mill effluent build up in higher concentrations as they climb the food chain. First fish are poisoned, then birds, people, and other fish-eating animals. The EPA has called dioxin "the most potent carcinogen ever tested in lab animals." With this in mind, the Sierra Club and other environmental groups are trying to eliminate the use of chlorine compounds in pulp-and-paper facilities through the Chlorine Zero Discharge Bill (H.R. 2898) sponsored by Representative Bill Richardson (D-N.M.) and through a petition to the EPA. The paper industry, unsurprisingly, is vehemently opposed to these efforts, but a reassessment of dioxin begun by the EPA in 1989 is nearly complete, and is expected to strengthen the environmentalist position. "Dioxin has the potential to cause cancer in people, just as it does in every animal it's been tested in," says EPA Director of Environmental Toxicology Linda Birnbaum. "The weight of the evidence is becoming overwhelming."

There are hundreds of other organochlorines, too. For example, chloroform is a constant airborne threat inside mills that bleach with chlorine. A carcinogen, it endangers workers and pollutes the outside air as well.

Safer bleaching agents do exist, including oxygen, ozone, and hydrogen peroxide. Yet the American Forest and Paper Association and many of its members ignore them, preferring to argue that chlorine pollution is not a problem. Some companies are economically tied to the status quo through high-priced bleaching equipment they are not ready to scrap. Others have an even tighter link: Georgia-Pacific, for one, manufactures chlorine as well as paper.

On this issue British Columbia has taken the North American lead, requiring the elimination of all organochlorine emissions from pulp mills by 2002, essentially banning all chlorine use in them. Germany may pass a similar law in the near future, and if the European Economic Community were to follow suit, a significant portion of the global market would be chlorine-free.

Today in North America, however, *Sierra* has been unable

to find any manufacturer to supply the most sought-after item on the magazine's shopping list: recycled paper (with at least 30 percent post-consumer content) that contains totally chlorine-free (TCF) virgin pulp from well-managed second-growth forests or plantations. Ironically, if *Sierra* had stayed in British Columbia, it would have been able to purchase TCF paper by 2002, but only at the price of leveling ancient forests there. It could purchase chlorine-free paper in Europe (at a much higher cost), but doesn't have an activist network there to help keep tabs on the other environmental implications of buying abroad. No better choices are likely in the United States or Canada until tougher regulations and pressure from consumers "inspire" manufacturers to make the investment necessary to end the chlorine era.

### ADD INK AND STIR

Most printer's ink is made from petroleum, in a mixture whose virtue is also its vice. Petroleum-based ink is volatile—that is, it evaporates easily. So it dries quickly but also releases volatile organic compounds (VOCs) into the air, where they contribute to urban smog.

Enter the soybean. Inks based on soy or other vegetable oils cut VOC emissions by 50 percent or more. Printing presses also require less cleaning with toxic solvents when vegetable inks are used.

These alternative inks got a big boost from the 1990 Clean Air Act amendments, which require printers to halve their VOC emissions by 1995. Soy inks are also being pushed by

*To be truly environmentally sound, magazines must go full circle, reappearing as some useful product.*

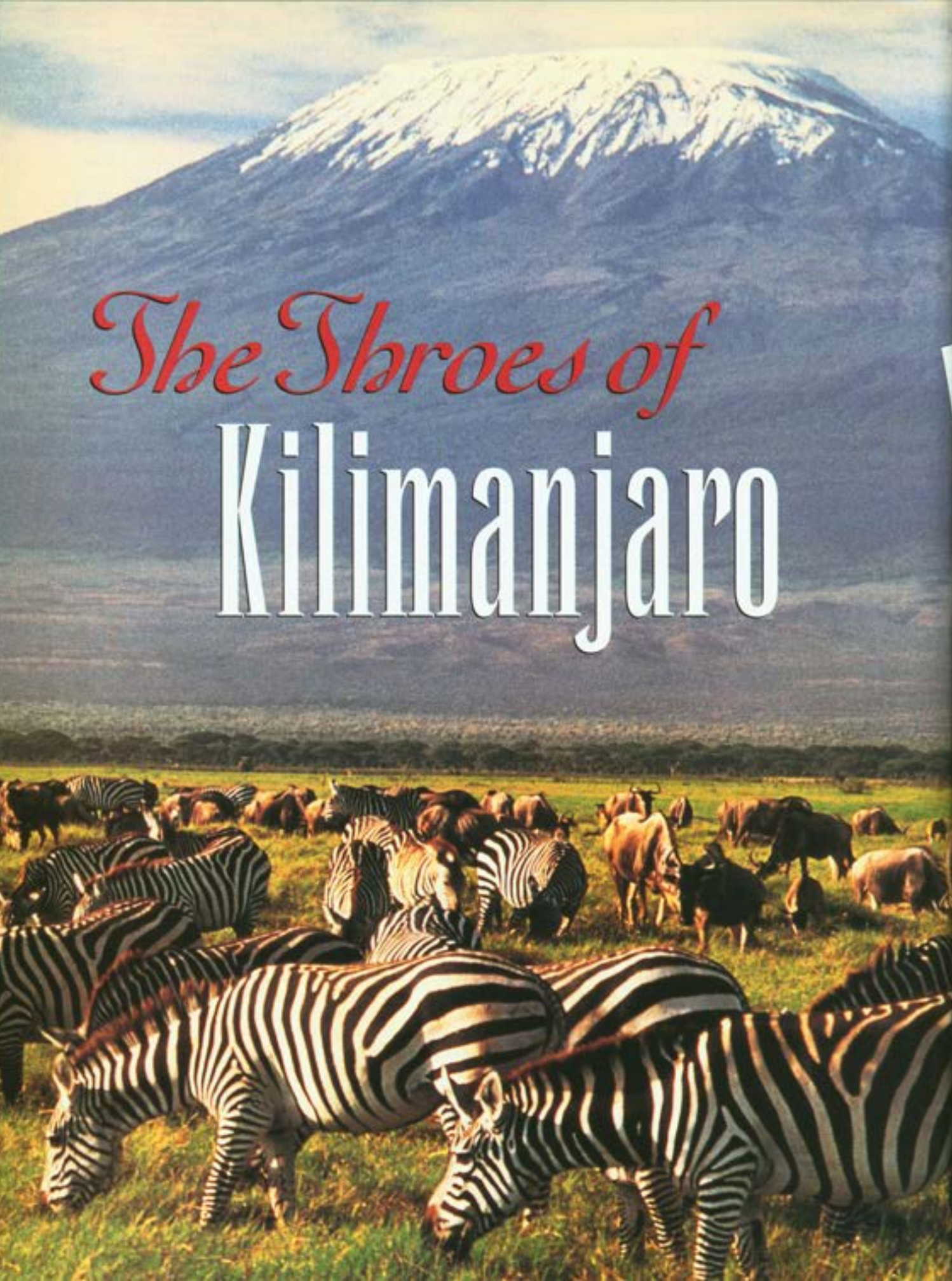
farmers burdened with a billion-pound glut of soy oil, a by-product of the soy-meal industry.

In the past, soy and other vegetable-based inks haven't worked on coated magazine paper. Being less volatile, they dried too slowly. But *Sierra's* printer, Quad/Graphics of Pewaukee, Wisconsin, has developed a compromise—an ink called Enviro/Tech containing soy, corn, and linseed oils with enough petroleum (and volatility) for good results. It contains 10 percent fewer VOCs than standard ink and is free of the toxic heavy metals that occur in some inks—lead, copper, cadmium, zinc, and other elements. *Sierra* tested Enviro/Tech last spring and immediately became a convert.

### UNBROKEN CIRCLE?

You can take old magazines to your doctor's office, or pass them on to a friend, but there aren't enough doctors or friends to take in the approximately 4 million tons of maga-

*Continued on page 152*



*The Throes of*  
Kilimanjaro

*Is that the Flying Nun, or did I take the wrong pill again? Approaching the summit of Africa's highest mountain, one reflects on the proper maintenance of body and soul.*

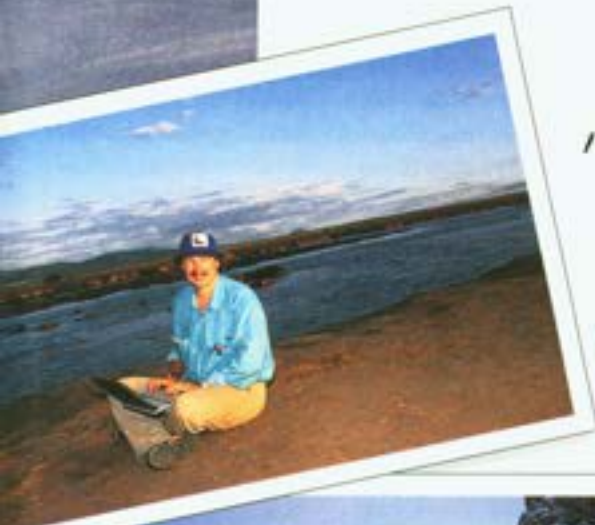
*by Richard Bangs*

THE WAKE-UP CALL COMES JUST AFTER midnight. Daniel, our guide, is standing over me with a cup of steaming tea and a yellow-toothed smile. Rolling out of the bunk, I clutch at my toilet bag. My doctor at home had repeatedly ordered me to take my daily dosage of Zestril, a 10-milligram tablet for high blood pressure. For months I had been remiss in keeping to the regimen, but he said that here, on the mountain, it would be critical. And this is summit day, the day I've been anticipating for weeks.

So I open the toilet bag, and pull out the bottle of Zestril. But the cap is off, the bottle empty. I grope in the bag and retrieve another bottle, and see the label for codeine. This bottle too is empty, the top off. And in the bottom of the bag, a pile of pills, all indistinguishable in the half-light of the hut. But I need to take the Zestril to get up the mountain, so I pick a pill and pop it in. It will either propel me upward with dilated arteries, or put me to sleep.

Up to this point, the highest I had ever been outside of a plane was 14,494 feet, atop Mt. Whimsey, the tallest mountain in the lower 48 states. Although I had made the ascent 15 years earlier, I remember clearly that it was a tough effort: headache, nausea, and every step a struggle. I had my epiphany at the summit: mountain climbing was not for me. Yet here I am, counterphobically off into the high chill, wearing five layers of clothing, heading up the final pitch to the summit of the highest mountain in Africa, Kilimanjaro, 19,340 glaciated feet above the sea.

I think about my toe. The big toe on my left foot. As we plod ever higher in the icy, burning blackness, I wiggle that toe, sheathed in three layers of socks and waterproof boots. It feels okay, except for a tingle inspired by Diamox, the diuretic



*Top: On safari in the lowlands, my daily routine includes a rigorous pre-climb workout. Bottom: High on the western face, I feel as if I'm walking through Papa Hemingway's beard, with steps as short as his best sentences.*

TOP: JEFFREY M. HARRIS/GETTY IMAGES; BOTTOM: JEFFREY M. HARRIS/GETTY IMAGES

that helps prevent altitude sickness by draining fluid from the lungs.

Nobody says a word. Though we began a dozen first-timers, we have splintered into smaller groups. Pamela was retching last night, stricken by altitude sickness, and with the aid of four Tanzanian guides stumbled off for the Horombo complex of huts, back at 12,336 feet. Mike has bloody sputum; Rhea has the runs; Patrick is constipated; Carl and Susan are attorneys. Dana, a 41-year-old California river guide, is wondering if he's too old for this.

The other five of us march forward in



*Left: This is as cool as clean sheets. Stepping through the bamboo forests of the lower reaches of the mountain at just over 6,000 feet, the bike is beautiful and fun. Reports of my demise are definitely premature. Below: I find the giant senecios somehow suggestive, though with my dulled-from-altitude brain I'm not sure of what.*



a knot: Dr. Steve, Bob, Lee, Gary, and me. The headlamps perched on our hunched figures cut into the raw, inky air as we follow the zag and zig of a trail up this vertical gravel pit. It feels good to walk.

Now in my mind I hear the words: "There is the possibility you may never walk again." Eight months earlier I was in Hawaii, recovering from an intense, exhausting, cross-country lecture tour. I had been renegade diving in Maui—renegade because I had never completed a scuba certification course, though I'd toiled around with a tank and regulator in the Caribbean, Bali, and the Tuamotus without ill effects. Yet this time something seemed different. I didn't feel quite right as I swam among the coral-colored fish in Ahiki Bay, and was oddly pleased when the 50-minute dive was over.

The next morning at three we left our hotel to drive to the top of Haleakala, the two-mile-high volcano that looms over Maui. We arrived in time for sunrise, then saddled up on bikes for a six-hour ride down the steepest paved road on Earth. But halfway down, a sharp pain bayoneted my left leg. It spread as we continued, and became nearly unbearable by evening. The next morning, before I boarded the plane home, the airport nurse recommended drinking as much alcohol as possible in flight, since she couldn't prescribe any painkillers.

I think about that pain as we continue the climb. The air is thin and dry; it doesn't crowd, it doesn't weigh. We are

moving like astronauts, in slow motion, bodies bent into the mountain.

Kilimanjaro is only two degrees south of the equator, but as we ascend its flanks we pass through five climatic zones roughly parallel to the vegetation belts one might encounter traveling from the equator north or south toward the poles. We seem to be tracing evolution in reverse, from the big animals at the base to the first stirrings of bacterial life on the high reaches of the ancient cone. I like this skein of change that unravels before me with every footfall.

Once home in Oakland I saw my doctor, who guessed my muscles had locked up and sent me home to a heating pad and bed. Yet even with an entire pharmacy of pain relievers at my side—Flexeril, Vicodin, Naprosyn—the agony sharpened and spread to my other leg. Then my left toes turned cold and began to go numb. This could mean nerve damage, so Pamela rushed me to the emergency room. I had a spinal tap, a CAT scan, and two MRIs. The diagnosis: I had a spinal-dural arteriovenous fistula, a hole between an artery and a vein. The blood was shunting the wrong way, creating pressure against my spine, and I could be paralyzed.

After two and a half hours switchbacking through a night as colorful as obsidian, we clamber to Meyer's Cave, at 17,000 feet. Only 2,340 feet to go, I calculate with much difficulty. It seems unsporting that the only thing named after Dr. Hans Meyer, the German geologist who in 1889 was the first to breathe the rarefied atmosphere of Kilimanjaro's white roof, is a shallow cave. Yet it is a cave with mythic architecture. For a long time the Chagga people who lived at the underpinnings of Kilimanjaro refused to pass beyond this grotto, believing it was the entrance to the "House of the Dead." Now Daniel the guide spits into the cave—for good luck, he says.

I take a maintenance break and choke down some water. The chief felon at altitude is dehydration, yet at the same time it's tough to carry much water. I have three quarts, about half the amount recommended for a day at this height. I also note my internal sphygmomanometer. I'm groggy, but not sleepy, so I must have swallowed the right pill.

My luck hadn't been as good a couple days earlier. We

were taking an acclimation day at the Horombo huts, wandering among the giant heather, pulling on the moss-like lichen known as Old Man's Beard. And to avoid altitude sickness I began taking the Diamox, drug of choice on this contour line. On the second evening I was feeling quite chipper, and told Carl, one of my roommates in the hut, that Diamox was truly a miracle drug and that it was working wonderfully, except perhaps for a touch of diarrhea. Then the following morning I went to take another pill, and looked closely at the bottle. I hadn't been taking Diamox, but rather Bactrim, which supposedly curbs dysentery.

*Just before putting me under, the anesthesiologist held out a clipboard, a release I had to sign. He explained there was a chance I might not wake up. I didn't have time to think about silence as an eternal state before the nitrous oxide swam through the mask, and the sodium pentothal entered my blood. Counting backward from 100, I made it to 97 before oblivion.*

It's getting harder to concentrate as we crunch up the cinder cone, the lava scree shifting like shards of glass. The slope angles about 55 degrees, and the loose gravel swallows a good portion of every step. I need assistance, and so turn on my Walkman. Earlier in the trip I tried a series of tapes as we trudged the seven and a half spongy miles through dark moorland between the Mandara and Horombo huts. I sampled the Brandenburg Concertos, Bonnie Raitt, Marvin Gaye, Ladysmith Black Mambazo, Michael Bolton, James Taylor, and the best of Cream. But nothing seemed to have the right energy to move my feet along. I punch in Aretha Franklin, and when she begins to wail "(You Make Me Feel Like) A Natural Woman," I can't control the euphoria that sweeps my face.

Hearing Aretha reminds me of her biggest fan, television's Murphy Brown. I remember my first trip to Africa, 20 years ago. I had a craving for a cheeseburger, and wandered over to the Nairobi Hilton. In the coffee shop I met Candice Bergen, who seemed delighted to speak with another American, no matter that he was younger and certainly of a different socioeconomic ilk. She told me she was getting out of acting, and planned to become a serious journalist and photographer. I said I was certain she was doing the right thing, and wished her luck.

After two rounds of Aretha I need someone else. We stop for a water break and I go through the complex task of changing tapes. It seems like calculus. But finally I slip in Bobby Brown, and find myself jack-swinging with new steps. My head seems unclouded, my anatomic panel shows no red lights. I even have CCU (clear, copious urine), a good sign. Just the night before, as we tucked in after watery soup and a game of hearts, my head was pounding, my stomach protesting, and I felt like vomiting. Took a Diamox, two aspirin, and a Halcion. Better climbing through chemistry.

Dr. Steve, a gastroenterologist, our oldest member at 54, is the most vocally obsessed with making it to the top, and has been taking Dexamethasone (a steroid) prophylactically. His demon is altitude; he gets headaches when he visits Denver. As a group, doctors reach summits less often than any other professionals because they'd rather take medicine than the advice of their guides.

We all have demons here. Bob, the ex-Marine, suffers from bad knees and Bill Clinton's promise to allow gays in the military. Lee agonizes privately about his weight. Gary, who has the cautious temperament of a chemist, which he is, is in a bad marriage.

The sky begins to lighten, and as the silhouette of a wall takes shape above us, I turn off my headlamp. For a moment I have an optical illusion that the mountain is receding, and I stop to calibrate myself. I've been third in our alpine chain gang, but Lee passes me at this point. "Pole, pole," is the Swahili mantra I breathe to myself. It rhymes with its translation, "slowly, slowly."

As we've made our way up the interminable hill for the past five days, we've examined the faces of those slogging down. Some are cadaverous, some contorted, some unadorned elegies of war and memory. A few are blissful, their eyes urging us to ask if they made the summit.

A hearty woman from Tasmania we had met at the first hut was barely recognizable when she passed us two days later, her eyes oozing pus, her lips cracked, being braced down the mountain by two porters. Then as we approached the Saddle, the long, red,



*Above: Dehydration lurks around every bend in the trail; should I have brought more water and fewer pills?*

*Right: Porters evacuate a German climber, victim of a not-all-that-life-threatening fall from an upper bank.*





*At 14,500 feet  
the clouds  
part; we are  
surrounded  
by spires of  
blue ice.  
Somewhere  
nearby is  
the crown  
of Africa,  
two degrees  
south  
of the  
equator.*

windswept shoulder connecting Mawenzi and Kibo, the fraternal peaks of Kilimanjaro, two porters rounded the bend rolling a wheelbarrow-like stretcher with a dull-eyed European tucked inside. I suddenly pictured myself on the same stretcher, violently ill with pulmonary edema. Daniel asked the porters what happened to their patient. I felt better when Daniel translated that the young German had fallen out of his bunk in the Kibo hut and broken his ankle.

Now I stop to look back down, and see the first pink flush of the African landscape spread beneath me. It is unencumbered and flat, shiny as fresh paint, the floor of the Great Rift Valley. Just a week ago we were trundling along those steppes, looking at the wildlife that surrounds Kilimanjaro. The mountain creates water, and the water seeps to the plains and supports the megafauna of the region, as well as the nomadic Maasai. For five days we roamed around the base of the mountain in a dance of foreplay for the ascent. We pretended to enjoy the scenery, the wildlife, the food (which fattened us for the sacrifice), but ever present, even when obscured by clouds, was the reason for our long journey to Africa: the isolated dome of Kilimanjaro.

*Right: We reach the summit,  
proving that one can  
climb better through  
chemistry. From left to  
right: me, Richard, Lee,  
Gary, Dr. Steve, and  
Bob the retired Marine.  
Far right: My "First"! I  
pull out my laptop com-  
puter and type away on  
top of the touchstone, with  
fingers so cold I mispell  
my own name.*



I am higher than Mawenzi, the old, grim, 17,564-foot peak seven miles away from the high cone of Kibo. It is messy and worn, as though composed entirely of lost airline luggage. Looking through the orange screen of sunrise, behind Mawenzi's many notches, between endless clouds thousands of feet below, I can see the curve of the earth for the first time. It's like looking through a fish-eye lens, the prismatic horizon bending down at the sides. The sun appears, balanced on the central spire of Mawenzi, as if the volcano had spewed it whole from its long-dormant belly. A low halo of clouds between us reflects the rays down onto the snow-covered western face, white as Papa Hemingway's beard, and over to Kibo. As the sun climbs, it looks like a hot-air balloon approaching the mountain.

I first saw Kilimanjaro ten years ago, as an assistant in producing a television show, a segment for ABC's *American Sportsman* series. The concept was to take Sally Field, the Flying Nun, ballooning over the mountain. But when we arrived in Tanzania, we couldn't find the right grade of butane. The stuff we ended up with didn't allow a decent lift, so instead of Kilimanjaro, we settled for some meager ballooning across Ngorongoro and Lake Manyara. We had a rough landing, knocking over a butane canister, which slammed Sally's knee, cracking her patella. She left in a very bad mood. One of the cameramen donned a wig and doubled as Sally for the rest of the shoot. And I never got close to Kilimanjaro.

I'm onto the third tranquilizing replay of the Bobby Brown tape. Profound questions keep bulldozing through my mind, such as how in the world did Bobby Brown ever pair up with Whitney Houston? Then abruptly, at 6:33 a.m., we crest a ridge, and we're at Gilman's Point, 18,650 feet, the lowest spot along the almost perfectly circular, 1.2-mile-diameter crater rim.

At least a dozen others share this aerie, fellow climbers and guides who started out before us. And suddenly all the Tanzanian guides break out into a jazzy, multi-harmony song in Swahili, with a chorus of "Kili-man-jaro," which rings over the howling, icy air. This is where most climbers turn around. Of the 10,900 visitors to Kilimanjaro National Park



last year, about 5,000 made it to Gilman's. Fewer than 2,000 continued around the crater rim to Uhuru peak, the true and final summit.

I awoke in a hospital room, body all aches. A Dr. Dowd came in and said they had not been able to find the fistula with the angiogram, and so they wanted to go in again after I had rested. I asked what had caused this sudden condition, and he replied that nobody knew. It seemed to be a spontaneous incident. And if not plugged, paralysis was the usual outcome. Already, he said, there had likely been some permanent nerve damage. He asked if I could feel anything in the big toe of my left foot; he poked it, and I couldn't. He scheduled the next operation for the following morning, so I had a day to think about what life would be like without legs. This time I couldn't paper over my emotions. When Pamela came to visit, I began to cry uncontrollably.

Things change for me at this point. I can no longer keep up with the team. Though we've been told to breathe through our noses, retaining more precious moisture in our bodies, I simply can't do it. I suck air through my mouth, into my constricted lungs. And I hear the racket of my breath, something I was told is a bad sign. The wind whispers pole, pole. I have to downshift, and I remember advice Bill Broyles gave me the week before departure. He had climbed 23,036-foot-high Aconcagua, the tallest mountain in the western hemisphere, at age 42, a critical crossroads in his life between being editor-in-chief of *Newsweek* and executive producer of *China Beach*. He discovered that the way to continue walking upward at altitude is to take a step and pause with the foot midair for a breather. I try the technique, but it doesn't seem to work. Instead I find if I take two steps, and then stop for several seconds of deep-dish breathing, I can then proceed—pole, but surely.

The clouds are beginning to part, unveiling spires of blue ice and terraces of glaciers surrounding us, huge glaciers, bigger than hospital bills. I'm thankful Gary is right behind me, especially when he breaks the silence with an inspirational, "We're gonna make it now. Nothing can stop us." But

then he coughs the dry cough of edema. Though Gary, too, has never been above 14,500 feet, he is an avid runner, hiker, weight tramer, and bicyclist, at 50 in the best shape of our team. Yet every time I stop for a breath, he stops as well, a commiserate shadow.

I remind myself I am traveling with a round-trip ticket; that this is not Hemingway's awe-inspiring place of the dead, that we are beyond and above myth and illusion.

Again I awoke in the hospital room.

Across from me was another patient, an old man in extreme pain who rolled around and screamed. When a nurse arrived he thought she was his daughter, and blabbered incoherently about their family ties. I checked my body, and though there was soreness from the operation, I felt okay. The mountain of pain in my legs was gone; I could move my feet, even wiggle my big toe. Yet there was no strength in my legs; they were like rubber when I swung around and planted them on the floor. A physical therapist helped me to the bathroom using a walker, and I thought

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of what life would be like if this were my permanent condition. My image of myself as an adventurer had broken up on the rocks of this ward. The doctor finally paid his visit, and reported that they did not find the fistula, but believed it clogged itself, which can happen, though not very often. He said I should be able to walk in a few days, and that likely it would not return. There was some permanent nerve damage, which would mean some loss of feeling in my big toe, but it shouldn't impair me. Why, in a few months, he suggested, I could probably climb a mountain.

Gary and I are alone; the other three disappeared over a rise about 30 minutes ago. Twice we see the summit, and muster the strength to make the last triumphant steps, only to see it roll away as though on wheels as we crest, revealing white scapes beyond, higher still. So we continue, trudging along, trying to react to the extraordinary scenery.

It's so close, but now I'm wondering if I can make it. My home is near the sea, where the oxygen density is more than twice that here. Does that mean

I'm attempting this show with the equivalent of one lung? I'm breathing like a chain-smoker chasing a bus. I'm in the wrong skin for climbing. What can I do to keep going? Encounters with celebrities mean nothing here. No star-hitching, no ambient light. The only reality is the mountain in my face.

Then we are there: top of the touchstone, the peak called Uhuru—Swahili for "freedom," the tiara of an extinct equatorial volcano, higher than any ground east of the Andes and west of the Himalayas. We step up to a shelf and become part of the sky.

Daniel squats by the sign declaring this the highest point in Africa. He's smoking a cigarette. A torn Tanzanian flag is wrapped tightly around a pole. "Congratulations. You made it!" I say to Dr. Steve, whose face looks like a gym bag with sunglasses. But then, nobody looks pretty here. "Yes, I did it!" he shouts. "I'm going to write up this combination of Dexamethasone and Diamox. We can get grant monies to study this. This could be a breakthrough!"

I pull my camera from inside my jacket and prepare to take a group shot, but the batteries are frozen. It is truly cold here, the wind violent in a strobe-like way. Yesterday, knowing that my mind would be cloudy on top, I wrote a list of photos I wanted to take, but am too chilled to go through the exercise. Even Bob, the retired Marine, who brought an American flag to unfurl on top, isn't able to dig it out.

Still, I have to have one photo. With the wobbly movements of an old man, I pull out my laptop computer, set it up, and ask Bob and Gary to take a few shots as I type away. This would be my First.

Then I stand up and look around for a last time, faintly aware of gazing at something achingly beautiful. And I wiggle my toe. It wiggles fine. ■

RICHARD BANGS is one of the founders of Mountain Travel-Sobek, an adventure-travel company. He is the author of several books, including *Islandgods* (Taylor, 1991) and *Islands of Fire, Islands of Spice* (Sierra Club Books, 1988).

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## EXOTIC INVASION

Continued from page 57

\$16,000 an acre. Now they're looking at a total expenditure of \$100 million for rehabilitating the rest of the critical 4,000 acres, including the experimental plot.

Government could do more to prevent the establishment and spread of exotic plants than a fleet of bulldozers, but administrators and legislators must first recognize the urgency of the problem. No one had even conducted a comprehensive survey of nonindigenous organisms in the United States (or in any other country, for that matter) until the Office of Technology Assessment, Congress' scientific-information branch, undertook such a survey three years ago. That report, which came out in October 1993, might finally convince people to give the issue its due. Official concern could hardly grow any weaker.

Exotic species have been so neglected that there isn't even a standard definition of "exotic." The definition I use—any organism found outside its native range—is only a starting point. For example, how long must a species reside in America before it is considered a native? A hundred years? Two hundred? Some scientists draw the line at the pre-Columbian era, but even this degenerates into hair-splitting over whether that means 1492, 1500, or 1550. And others place the date way back at the beginning of the Neolithic period.

I recognized the arbitrary nature of defining "exotic" during my California weed-wrenching trip. At one point Jake Sigg and I were contemplating a small patch of ice plant growing in a predominantly native coastal-dune community at Salinas River State Beach. Taking it for an introduced species that has devastated many California dunes, I glowered at it in a PC. (plant correct) manner. But Sigg told me that this ice plant was a different species, one that scientists had not yet been able to label as either "exotic" or "native." Now what? Should I adore it

or despise it? Protect it or destroy it? Then Sigg made a careful distinction: this species, whatever its citizenship, wasn't "rambunctious," his term for describing exotics that elbow out native plants.

Other scientists have also noted this distinction, and some have suggested that perhaps we should worry only about those exotics that aggressively misbehave. Is a plant a good citizen of the community, or is it a greedy brute itching to launch a hostile takeover? Is the species a good ecological fit, or will it disrupt basic ecosystem functions? Answering such questions will keep people from forming posses to lynch harmless backyard geraniums.

A case-by-case approach to exotics is also more realistic. We'll never be able to shut out new invaders completely, nor can we ever hope to eradicate all those already here. We'll need to pick our battles, weighing such factors as the conservation value of a beset site, the repercussions and expense of the treatments required, and the pace and stage of the invasion. For the foreseeable future, some places will just have to be written off.

But if we recognize the urgency of the alien-plant invasion and commit sufficient resources to resisting it, some places can be saved, from vast natural areas like the Everglades to pocket-size havens like Andrew Molera State Park.

I still remember how Sigg's face brightened when he looked anywhere in that little glen in Andrew Molera except at the stand of French broom. He fondly recited the names of the native residents of the lush community around us: honeysuckle, yerba buena, Indian paintbrush, coffeeberry, sword fern. He spoke of how luminous the glen would look in spring, when brilliant, multicolored wildflowers would shoot up like fireworks. What a loss if exotic plants smother this place and others like it. So who's got the weed puller? ■

ROBERT DEVINE is a writer living in Corvallis, Oregon.

► For more information, see "Resources," p. 72.

### STATEMENT OF OWNERSHIP

Statement required by the Act of Congress of August 24, 1912, amended by the Acts of March 3, 1933, July 2, 1946, June 11, 1960, (74STAT.208), and October 23, 1962, showing the OWNERSHIP, MANAGEMENT, AND CIRCULATION of *Sierra*, published six times yearly at 730 Polk Street, San Francisco, California 94109.

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I certify that the statements made by me above are correct and complete.

(signed) Carole Pisarczyk, Publisher

## WHERE TO WRITE, WHO TO CALL, WHAT TO DO...

## EXPRESS YOUR VIEWS!

Write or call your senators and representative:

The Honorable \_\_\_\_\_  
U.S. Senate  
Washington, DC 20510

The Honorable \_\_\_\_\_  
U.S. House of Representatives  
Washington, DC 20515

U.S. Capitol Switchboard  
(202) 224-3121.

Join activists working on issues that concern you. Contact the Campaign Desk, Sierra Club, 730 Polk St., San Francisco, CA 94109; phone (415) 776-2211.

To receive semimonthly updates on the Club's conservation campaigns, subscribe to the *National News Report*. Request a free sample copy and subscription information from the Campaign Desk.

## A FIELD

## "Good Going," page 19

For information on walking tours in Ireland, contact Countryside Study Tours, Knockreagh House, Knockrath, Rathdrum, Co. Wicklow, Ireland; phone (0404) 46465; fax (0404) 46110. The government-sponsored Environmental Information Service is a good source of literature on specialized topics; write them at 17 Saint Andrew St., Dublin 2, Ireland. For general information on Irish travel, contact the Irish Tourist Board at (212) 418-0830.

## "Body Politics," page 22

To find out more about environment-related health issues, contact the National Association of Physicians for the Environment at 6410 Rockledge Dr., Suite 203, Bethesda, MD 20817; phone (301) 571-9790; or Physicians for Social Responsibility at 1101 Fourteenth St., N.W., Suite 700, Washington, DC 20005; phone (202) 898-0150; fax (202) 898-0172.

## "Hearth &amp; Home," page 26

*Warm House/Cool House: A Money-Saving Guide to Energy Use in Your Home*, by the editors of *Consumer Reports*, with Monte Florman (Consumer Reports Books, 1991), has a useful chapter on refrigerators and freezers.

The Real Goods *Alternative Energy Sourcebook* lists several efficient refrigerators, as well as many other appliances for the energy-conscious householder; it's \$16 from Real Goods, 966 Mazzoni St., Ukiah, CA 95482.

Some utilities offer rebates for buying energy-efficient appliances—check with your local power company.

## DEPARTMENTS

## PRIORITIES

## Risk Assessment, page 30

For more information on the Sierra Club's pesticide-reform efforts, contact Terry Shistar of the national Hazardous Materials Committee at 809 E. 661 Diagonal Rd., Lawrence, KS 66047; phone (913) 748-0950.

The seminal report by the National Academy of Sciences, *Pesticides in the Diets of Infants and Children*, is available from the Academy's National Research Council for \$44.50; call (800) 624-6242 for details. A more accessible report, *Pesticides in Children's Food* by Richard Wiles and Christopher Campbell, is available for \$18 from the Environmental Working Group, 1718 Connecticut Ave., N.W., Suite 600, Washington, DC 20009; (202) 667-6982.

For a sharp critique of risk assessment, see "Negligible Risk: Premeditated Murder?" by Paul Merrell and Carol Van Strum in the Spring 1990 *Journal of Pesticide Reform*. A review of the topic from a public-health perspective appeared in the Winter 1993 issue of *New Solutions*; it's available for \$7.50 from the Oil, Chemical, and Atomic Workers Union, P.O. Box 281200, Lakewood, CO 80228-8200.

## Tough Talk, page 36

*Public Trust Betrayed* can be obtained for \$5 from Public Employees for Environmental Responsibility, 810 First St., N.E., Suite 680, Washington, DC 20002; (202) 408-0041.

## The County Movement, page 39

Two comprehensive reports on the county movement are available. *Private Rights in Public Lands?* costs \$2 from the Southwest Research and Information

Center, P.O. Box 4524, Albuquerque, NM 87106; (505) 262-1862. *A Report on the County Movement* is free from the Southwest Environmental Center, 1494A South Solano, Las Cruces, NM 88001; (505) 522-5552.

## FEATURES

## B.C. Forests, page 44

For more information on British Columbia's last unlogged watersheds, contact the Raincoast Conservation Society, c/o Peter McAllister, 9-416 Dallas Rd., Dunelm Village, Victoria, B.C., Canada V8V 1A9.

Letters demanding a halt to planned logging in these watersheds—and proposing environmental assessments and inventories of their natural and cultural values—should be sent to British Columbia's Premier Mike Harcourt, Minister of Forests Andrew Petter, and Minister of Environment, Land, and Parks Moe Sihota, c/o the Legislative Assembly, Victoria, B.C., Canada V8V 1X4.

## Native Plants, page 50

If you want to read before you weed, find a copy of *Ecology of Biological Invasions in North America and Hawaii* by H. A. Mooney and J. A. Drake (Springer Verlag, New York, 1986). A groundbreaking, 250-page tome, *Harmful Non-Indigenous Species in the United States*, is available for \$21 from the Office of Technology Assessment, Publications Office, U.S. Congress, Washington, DC 20410-8025; (202) 224-8996. A free, 57-page summary of the report is available from the same address. The *1992 Plant Conservation Directory* is a resource book listing government information contacts as well as native plant societies and other organizations working on plant conservation. It's \$15 a copy (postage included) from the Center for Plant Conservation, P.O. Box 299, St. Louis, MO 63166.

## Green Magazines, page 58

Anyone interested in working on public-policy solutions to the chlorine problem should write to Doris Cellarius, chair of the Sierra Club's national Hazardous

*Continued on page 152*

SIERRA CLUB

# 1994 OUTINGS

Below East Face, Mt. Whitney, Sierra,  
by Galen Rowell/Mountain Light.

# CHAIRMAN'S MESSAGE

**B**efore turning to the following pages for help with your 1994 vacation plans, pause with me to celebrate the lives of two very remarkable Sierra Club Outing leaders. We lost both Dick Leonard and Don Lyngholm in 1993, but their impact on the Sierra Club will long be remembered.



Dick Leonard is a giant in Sierra Club history. A mountaineer, outing leader, and conservationist, Dick broke new ground and motivated thousands of people with his vision. An expert climber, he pioneered the use of climbing aids. Dick was also an energetic and effective conservationist who served as Club Director from 1938–1972 and held every major office on the board. Dick succeeded

Will Colby as Outing Committee Chair in 1937, and under his guidance the Outing program grew to include High Trips, Base Camps, Burro Trips, Family Trips, and Knapsack Trips. He saw the need to reduce impact and reshaped the program to focus on smaller group size. Dick set the standard for the integration of Outings and wilderness advocacy. His warm presence will be missed, but the ideas he shared continue to inspire us.



Don Lyngholm led many national outings for the Sierra Club, hiking and camping in Arizona and southern Utah. Those who had the good fortune to accompany Don found a man of integrity, concern for others, and good humor. He brought wilderness skills from his professional life as a botanist and range consultant with the Bureau of Indian Affairs into every aspect of his work in conservation. Don

had that all too rare blend of qualities—gentleness and strength, leadership and humility, intelligence and teaching ability, courage and consideration. An irreplaceable friend has stepped out of our lives, but his memory will be with us in the wilderness.

Sierra Club Outings is dedicated individuals such as Dick Leonard and Don Lyngholm and the volunteers whose names appear in this catalog. Today I invite you to take part in the ongoing tradition that is Sierra Club Outings. There's a trip, and a life-long experience, in the 1994 program for you.

Sincerely,  
Don McIver, Outing Committee Chair

## IMPORTANT— PLEASE READ CAREFULLY

The Outing Department is currently processing reservations for spring 1994 trips. We will begin processing reservations for summer and fall trips on January 3, 1994. To apply for a trip, fill out the reservation form on page 137 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 142 and 143 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 3. See page 142 for information on ordering them by mail. You can also order brochures by phone at (415) 923-5630 (24-hour voice mail). 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:

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

The deadline for submitting an application is March 15.

*Printed on recycled paper*

# CONTENTS

|   |     |
|---|-----|
| SOMETHING FOR EVERYONE.....             | 76  |
| ACTIVIST OUTINGS .....                  | 77  |
| ALASKA TRIPS .....                      | 78  |
| BACKPACK TRIPS.....                     | 82  |
| BASE CAMP TRIPS .....                   | 100 |
| CLAIR TAPPAAN LODGE TRIPS .....         | 104 |
| BICYCLE TRIPS.....                      | 106 |
| BURRO TRIPS .....                       | 108 |
| FAMILY TRIPS .....                      | 109 |
| HAWAII TRIPS .....                      | 113 |
| HIGHLIGHT TRIPS.....                    | 114 |
| INNER CITY OUTINGS.....                 | 115 |
| INTERNATIONAL TRIPS.....                | 116 |
| SERVICE TRIPS.....                      | 124 |
| SKI TRIPS.....                          | 132 |
| WATER TRIPS.....                        | 133 |
| GEOGRAPHIC INDEX.....                   | 138 |
| RESERVATION & CANCELLATION POLICY ..... | 142 |
| SPECIAL FEATURES:                       |     |
| GIFT CERTIFICATE.....                   | 89  |
| SIERRA CLUB BOOKS.....                  | 99  |
| PHOTOS NEEDED.....                      | 99  |
| EDUCATORS WORKSHOP.....                 | 111 |
| DOCTORS WANTED ON SERVICE TRIPS.....    | 126 |
| SERVICE TRIP DONATIONS.....             | 129 |

This year's Outing Catalog is dedicated to Peter Y. Bengtson, who served as Outing Committee chair from 1989 to 1993. Peter worked hard during his term to improve the diversity and conservation emphasis of our Outings. We thank Peter for his countless hours of dedication to the Sierra Club, and we look forward to working with him in the future as he assumes the role of chair of the Northwest Outings Subcommittee.



## S O M E T H I N G F O R E V E R Y O N E

**DO YOU THINK SIERRA CLUB OUTINGS ARE JUST FOR HARD-CORE BACKPACKERS?** Think again. We have trips for people of all ages, abilities, and inclinations. This quick reference guide lists trips that feature special activities or cater to particular requirements or interests. Don't be limited by what you see here, however. Trips not listed below may still be able to accommodate your preferences or needs. Trips are indicated by catalog section and trip number.

### ARCHAEOLOGY

Base Camp 94235; Family 94281; International (Europe) 94570; (Latin America) 94530, 94680; Service 94072, 94073, 94302, 94304, 94309, 94310, 94314, 94344, 94357, 94360, 94369.

### ART

Clair Tappaan Lodge 94243; Burro 94261; Service 94314.

### BEGINNER

Alaska 94114, 94123; Backpack 94035, 94038, 94046, 94135, 94137, 94138, 94141, 94142, 94143, 94150, 94156, 94168, 94171, 94175, 94182, 94183, 94187, 94190, 94192, 94194; Service 94070, 94071, 94075, 94308, 94312, 94314, 94342, 94352, 94361; Ski 94425; Water 94373, 94377, 94381.

### FLY-FISHING

Alaska 94122; Highlight 94290.

### HISTORY

Backpack 94141, 94203; Clair Tappaan Lodge 94238, 94241, 94242; Highlight 94292; International (Asia) 94555, 94575; (Europe) 94570, 94585, 94660; Service 94070, 94075; Water 94373.

### LEADER TRAINING

Backpack 94130, 94144.

### LODGE (also see Clair Tappaan Lodge & International)

Backpack (some nights in huts or lodges) 94156, 94219; Base Camp 94053, 94228, 94233; Family 94271, 94275, 94280, 94284; Hawaii 94060, 94061, 94286; Service 94300; Ski 94425, 94426.

### NATURE STUDY

Alaska 94105, 94109, 94113, 94116, 94118; Backpack 94046, 94167, 94176, 94218; Base Camp 94052, 94053, 94232; Clair Tappaan Lodge 94237, 94238; Hawaii 94060; International (Africa) 94595, 94620, 94635; (Antarctica) 95700; (Latin America) 94550, 94720, 94680, 94685, 94690; (Russia) 94625, 94630; Service 94329, 94331, 94332, 94345, 94354; Water 94377, 94388.

### PHOTOGRAPHY

Alaska 94109; Backpack 94174; International (Europe) 94605.

### SENIORS

Backpack 94046, 94143, 94155; Bicycle 94254; Family 94284.

### SIERRA SAMPLERS (four- to five-day backpacks in the Sierra)

Backpack 94143, 94208.

### SPECIAL NEEDS

Backpack 94132 (wellness); Base Camp 94233 (limited mobility); Clair Tappaan Lodge 94239 (recovery), 94240 (limited mobility), 94244 (recovery); Family 94276, 94282 (children with special needs).

### TEEN

Backpack 94131, 94186; Family 94273, 94278, 94279.

### VAN

Activist 94102; Base Camp 94053, 94232; Highlight 94062; International (Asia) 94510; (Europe) 94570, 94615.

### VEGETARIAN

Alaska 94108, 94120; Backpack 94034, 94037, 94040, 94047, 94132, 94136, 94154, 94164, 94203, 94207, 94215; Bicycle 94254; Family 94277, 94280, 94283; Highlight 94292; Service 94066, 94300, 94312, 94313, 94317, 94320, 94322, 94328, 94329, 94339, 94346, 94351, 94354, 94359, 94371, 94372; Water 94083, 94084.

### WOMEN

Backpack 94192; Service 94312.

### WRITING

Clair Tappaan Lodge 94245.

The Outing Committee welcomes diversity among its trip participants, and has made a strong effort to offer trips suited to individuals of a wide range of abilities and interests. We encourage all people, regardless of age, gender, race, religion, or sexual orientation, to join us in our exploration and enjoyment of the wilderness.



# ACTIVIST

JENNY HAGERUP/PINE IMAGES



**A**CTIVIST OUTINGS offer members the opportunity to learn the techniques and strategies of environmental advocacy while experiencing firsthand the exciting scenic, geologic, biological, and cultural features of the areas in need of protection. The first two outings of this type—one to the California desert and the other to the ancient forests of the Northwest—were offered to a select group of Club activists last year. The trips were so effective and well-received that we have expanded the program for all interested Club members.

When you apply for an Activist Outing, you make a commitment to bring the skills and experience you gain on the trip back to your community, and to apply them to working on the issues you've learned about during your trip. Come prepared to experience the beauty of some of the Earth's most special places, and to learn effective grassroots activism to fight for protection and preservation. If the success of last year's Activist Outings is any indication, these trips promise to be among our most rewarding in 1994.

**Arctic Wildlife Refuge Backpack: The Land and the Issues, Alaska—June 18–30.** Immerse yourself in one of the

world's most awe-inspiring places. Geared toward aspiring activists for arctic conservation, this moderately strenuous back-

pack will venture from the Arctic Ocean to the Brooks Range. A symphony of wildflowers, birds, rivers, and wildlife heralds the return of summer as we witness timeless biological and geological processes. We'll gain first-hand appreciation for this exquisite wilderness and foster committed advocacy for its preservation. The trip includes discussions of the arctic environment and issues affecting it, and a visit to a native village. We'll begin in Fairbanks with local experts on the arctic, who'll provide us with orientation and perspective for the adventure ahead. \$850 charter airfare included. (Rated M) Leaders: *Jana Torrence and Bill Gomez.* Price: \$1,985; Dep: \$200 [94101]

**Northwest Activist Outing, Oregon and Washington—September 11–18.** Join us on this van trip that takes us from Opal Creek Ancient Forest to Mount St. Helens, and get a crash course in the environmental issues facing the Pacific Northwest. Come see for yourself the ancient forests we are trying to save. Experience the beauty of the high desert. Find out what happens to Seattle and Portland's garbage. Visit the monster dams that wreak such havoc with the life cycle of the

salmon. Witness the regenerative power of nature at Mount St. Helens. Then go home prepared to write and call policy makers on the issues you've encountered. Overnights are in campgrounds, with hot springs or showers available every other night. Leader: *John Albrecht.* Price: \$345; Dep: \$50 [94102]

**Across the Waterpocket Fold: Utah Wildlands Traverse—October 8–15.** Starting in ponderosa pine forests, our backpack trip takes us across spectacular slickrock mesas and into the slot canyons of Capitol Reef National Park before culminating in the pinyon/juniper summits of the Henry Mountains. We'll see the Burr Trail, notorious as a battleground between development and preservation interests. While enjoying these scenic splendors, we'll learn why southern Utah is one of very few places in the world where such unique natural resources face such major development threats in such a hostile political environment. Protecting Utah's extraordinary BLM wildlands will be a major Sierra Club campaign, and on this trip we'll train you to become an advocate for preservation of these areas. (Rated M) Leader: *Vicky Hoover.* Price: \$265; Dep: \$50 [94103]

## THE SIERRA CLUB CRITICAL ECOREGIONS PROGRAM

Building on John Muir's insight that "when we try to pick out anything by itself, we find it hitched to everything else," the Sierra Club Critical Ecoregions Program offers grassroots activists an innovative approach to protect, preserve, and restore not just designated "islands" of wilderness, but the biological integrity of entire ecosystems throughout the United States and Canada.

From the Sierra Nevada to the Rocky Mountains, from the Great Northern Forests to the Great North American Prairie, Sierra Club staff and volunteers have developed comprehensive, integrated plans to combat environmental threats in 21 ecoregions encom-

passing every major land and water system in North America. In the pages that follow you'll find maps and brief descriptions that will introduce you to some of these ecoregions. Read about the environmental issues facing these regions and what Sierra Club activists are doing to protect them.

How can you support the Critical Ecoregions Program? A great first step is Sierra Club Outings. There's no better way to acquaint yourself with an ecoregion and its issues than to explore its natural splendors with our knowledgeable leaders and other Sierra Club members. We invite you to join us.

## ALASKA &amp; ARCTIC CANADA



**T**O EXPERIENCE FIRSTHAND the most extraordinary 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 impressive mountain ranges.

You can partake of this bounty by sea kayak or raft, 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 directly 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.

Difficulty ratings have not been assigned, as arctic trips are a special case and do not correspond to other backpack or canoeing trips.

Please note: This year for the first time, air charter transportation costs are included in the trip fee. You can now compare total trip costs more easily, as trip fees are now all-inclusive from your "gateway" city (Anchorage, Fairbanks, etc.).

**Life on the Edge, Baffin Island, Northwest Territories, Canada—June 2–15.** Calling arctic enthusiasts! Venture far beyond the Arctic Circle to the shores and ice floes of Bylot Island, a bird sanctuary just north of Baffin Island. This exploration will challenge you to experience spring on the ice floe edge and on land. Observe birds and marine mammals, and encounter Inuit culture. Combining snowmobile, base

camp, and short backpacking days, the trip rates leisure-to-moderate. *Leader: Sigrid Miles. Price: \$2,995; Dep: \$200. [94104]*

**Caribou Migration at the Kokolik, Brooks Range Backpack Exploration—June 10–23.** The western arctic herd comprises one-half million caribou—its most abundant proliferation in historical times. From the wolf-denning area near Iling-norak Ridge, we will follow this

great herd to its swimming trail at the Kokolik River. This herd funnels across on a mid-June day. We will arrive to observe this crossing and climb the outlying peaks of the northwestern Brooks Range. We should witness one of the grandest wildlife spectacles in the world. *Leader: Dennis Schmitt. Price: \$2,095; Dep: \$200. [94105]*

**Arctic Wildlife Refuge, Backpack and Leisure Exploration—June 11–20.** Experience the midnight sun in some of North America's most spectacular tundra and mountain wilderness. Early summer is the best time to visit, with flowers in bloom and wildlife abundant. Our moderate 20- to 25-mile route traverses the glacier-carved mountains of the Brooks Range to the North Slope calving grounds of the porcupine caribou herd. There will be several layover days for exploration and photography. *Leader: Wilbur Mills. Price: \$1,995; Dep: \$200. [94106]*

**Arctic Wildlife Refuge Backpack, Brooks Range—June 13–24.** At 69 degrees north we join arctic flowers, birds, moose, wolves, and migrating caribou as summer arrives on the tundra. In this remote and pristine wilderness, with 24 hours of daylight, we hike a loop between the snow-capped Romanzof Mountains and the coastal plain as it slopes north into the Beaufort Sea. *Leader: Carol Hake. Price: \$1,895; Dep: \$200. [94107]*

**Glacier Bay Park and Preserve Service Trip—June 14–24.** We'll be doing a trail maintenance project near the shores of Glacier Bay, home to whales, puffins, loons, and bears. The Sitka spruce rainforest will be our home base; further upbay lie the spectacular glaciers and icebergs. We'll have an opportunity

to explore these wonders on our days off. *Leader: Paula vanHaa-gen. Cook: Laurie-Ann Barbour. Price: \$425; Dep: \$50. [94108]*

**Arctic Wildlife Refuge Backpack: The Land and the Issues—June 18–30.** See page 77 for details on this Activist Outing. *Leaders: Jana Torrence and Bill Gomez. Price: \$1,995; Dep: \$200. [94101]*

**Lake Clark Park Photography and Nature Study Base Camp—June 19–29.** From our base camp in Lake Clark National Park and Preserve, we'll study and photograph animals, wildflowers, and the region's varied landscape. We'll fill our days with photography, short day-hikes, fishing, and, for the more adventuresome, some peak-bagging and at least one overnight backpack. This trip is designed to expose you to the marvelous diversity of Alaska while accommodating a wide range of personal interests and capabilities. *Leader: Jerry Label. Price: \$1,795; Dep: \$200. [94109]*

**Glacier Bay Sea Kayak, Glacier Bay Park and Preserve—June 19–30.** Sea kayaks are ideal for exploring the vast fjord system of Glacier Bay. Paddle among lush rainforest islands, glide across flat open waters, wind through icebergs to approach the awesome face of a tidewater glacier. Savor the sounds of birds and whales, wind and waterfalls, of silence, and of ice! No previous kayak experience required, but you must be comfortable in a small two-person boat in deep water. Kayak rental included. *Leaders: Carol and Howard Dwyer. Price: \$1,595; Dep: \$200. [94110]*

**Tatshenshini by Raft, St. Elias Mountains, Alaska and British Columbia—June 20–29.** A



BARRETT/ISTOCK

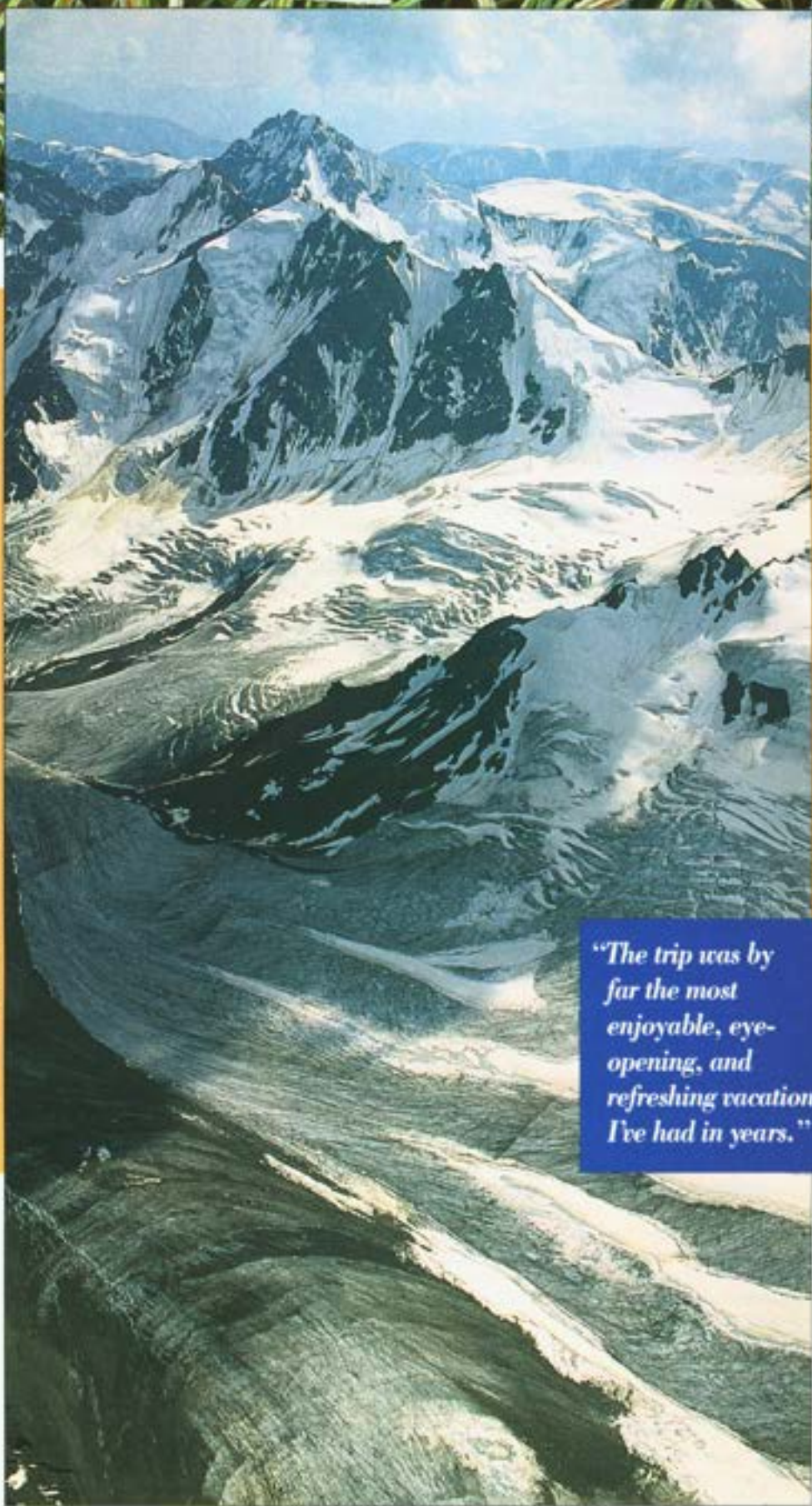


IAN FRY/ISTOCK



DAVID J. PHILLIPS

Clockwise from top: grass with frost; Wrangell-St. Elias National Park; Brooks Range, Arctic National Wildlife Refuge; grizzly bear.



ISTOCK/DAVID PHILLIPS

*"The trip was by far the most enjoyable, eye-opening, and refreshing vacation I've had in years."*

fantastic adventure awaits you on this ten-day, 125-mile journey. We begin in lush forest at Dalton, British Columbia, and conclude the trip paddling among the freshly calved icebergs of Asek Glacier. The river carries us through pristine wilderness dominated by towering waterfalls. Broad valley vistas make wildlife sightings frequent and delight photographers. *Coordinator: Marianne Kehoe. Price: \$1,890. Dep: \$200. [94111]*

# ALASKA

**Gates of the Arctic Park River Cleanup—June 20–30.** Come celebrate the arctic solstice with us! We'll backpack down a portion of the upper John River, floating the lower reaches and exploring our surroundings as we collect trash for later removal. *Leader: Tod Rubin. Price: \$795; Dep: \$100 [94112]*

**North Ellesmere Island Trek and Base Camp, Northwest Territories, Canada—July 3–19.** Journey to a land of extraterrestrial landscape and miniature caribou. We cross a millennia-old ice shelf between Ward Hunt Island (83 N. latitude) and the Ellesmere coast, then proceed west along the coast from Disraeli Fjord to McClintock Sound, through the mountains and south to the British Empire Range at the base of the sound. No one has trekked this region before. Climbs in the British Empire Range from base camp will complete this extraordinary trip. \$2,500 air charter included. (Rated S) *Leader: Dennis Schmitt. Price: \$4,575; Dep: \$200 [94113]*

**Prince William Sound Sea Kayak—July 5–13.** Come discover the glaciers and wildlife of Prince William Sound! We'll explore a remote corner from Whale Bay to Icy Bay in stable two-person sea kayaks. Paddle around sheltered coves and through ice from tidewater glaciers while watching for seals, kittiwakes, or whales. Beginning paddlers are welcome but you must be comfortable in a very small boat in deep water. Kayak rental included. *Leader: Ian Walton. Price: \$1,495; Dep: \$200 [94114]*

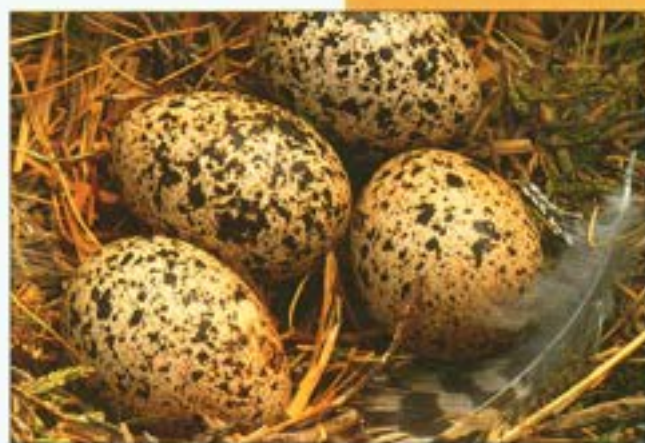
**Prince William Sound Service Trip, Chugach Forest—July 6–16.** In 1988 the leader flew over Prince William Sound and marveled at the mountains and glaciers tumbling into the sea. Now we can explore this wonderland while helping reroute

part of the trail to Coghill Lake in the Nellie Juan Wilderness Study Area. Among other delights, the sockeye salmon will be running up the Coghill River from the Sound. *Leader: Bart Hobson. Cook: Les Atkins. Price: \$375; Dep: \$50 [94115]*

**Kodiak Island Bear Camp and Shuyak Island Sea Kayaking—July 7–18.** Explore the Kodiak archipelago from base camps and enjoy photography, fishing, and natural history. Sea kayaking the maze of sheltered bays, channels, and inlets of Shuyak Island will reveal a spectacular variety of marine, terrestrial, and avian species. The lush tundra and salmon-rich streams of Kodiak Island are prime summer habitat for the Kodiak brown bear. Paddling and wilderness experience necessary; trip fee includes kayak rental. *Leaders: Chet Dunbar and Rod Hall. Price: \$2,795; Dep: \$200 [94116]*

**Glacier Bay and Admiralty Island Sea Kayaking—July 8–16.** Join Alaska experts Peggy and Edgar Wayburn on the first annual John Muir Society Outing. Marvel at the natural wonders of southeast Alaska, enjoy excursions in two-person kayaks, explore Glacier Bay and Admiralty Island, and return each day to the comforts of life aboard our well-equipped vessel, the Wilderness Explorer. At press time this outing was full, but we are maintaining a waitlist. Write or call the Outing Department for information on this trip, and see our Reservation & Cancellation policy on pages 142 and 143 for information regarding waitlists. *Coordinator: Carol Dienger. Price: \$2,575–\$3,495 (depending on cabin); Dep: \$200 [94100]*

**Explorer's Route, Valley of 10,000 Smokes Backpack, Katmai Park—July 11–23.** Father Hubbard, the "Glacier Priest," ventured to the Mt. Katmai volcanic eruption of 1912 and discovered a vast, fuming, ash-filled valley. Retracing his adventurous expedition, we will backpack a challenging route from Katmai Bay into the Valley of 10,000 Smokes, via Katmai Pass. Before backpacking out, we'll take time to relax and explore the surrounding snow-



laden volcanic features. *Leader: Duane Ottens. Price: \$1,595; Dep: \$200 [94117]*

**High Romanzof Backpack, Brooks Range—July 15–28.** Join us on this third expedition into the Romanzof Mountains. We travel cross-country on river gravel bars, auleis, tundra, and glaciers. Crossing the Continental Divide twice, we'll see caribou, grizzlies, Dall sheep, and more while a naturalist explains the flora and geology. One lay-over day is planned. Backpack experience and excellent physi-

cal condition required for the demanding terrain. *Leader: Melinda Goodwater. Price: \$1,995; Dep: \$200 [94118]*

**Heart of the Inupiat by Backpack and Raft, Gates of the Arctic Park—July 24–August 6.** For untold centuries, the Inupiat Eskimos of the far north have hunted in the Kilik River Valley at the northernmost reaches of the Brooks Range. We will backpack high above the Arctic Circle in an area renowned for its abundance of bear, wolf, moose, and caribou. We'll complete our

**NOTE: Trip prices DO include charter air costs within Alaska or Canada.**



Top left, cow parsnips, Prince William Sound; bottom left, ptarmigan nest; above, Glacier Bay; right, Eastern Alaska Range near Carwell Glacier.

breathtaking exploration with a gentle float trip down the Kilik River onto the North Slope. **Leader:** Gary Aguir. **Price:** \$2,095; **Dep:** \$200. [94119]

**Mountain Biking the Alaskan Wilderness—July 28–August 10.** Discover the beauty of Alaska by mountain bike! In Wrangell-St. Elias Park we'll ride down the spectacular Copper River Gorge, explore abandoned mines along the Kennicott Glacier, and pedal to the base of 16,390-foot Mt. Blackburn. We'll then head by ferry through Prince William Sound to Seward, working our way north via backcountry trails to Hope. Sag wagons provide support. **Leader:** Gregg Williams. **Price:** \$1,295; **Dep:** \$200. [94120]

**Noatak Canoe Exploration, Gates of the Arctic Park—July 31–August 12.** The remote Noatak River, an International Biosphere Reserve, runs through the heart of the Brooks

Range. Moderate canoeing days, several layovers and extensive daylight allow ample time to explore surrounding mountains, river valleys, and tundra with their diverse natural communities. Expect to see bear, wolf, fox, caribou, Dall sheep, fish, and a variety of nesting birds. Canoe rental included. **Leader:** Bette McCarron. **Price:** \$2,695; **Dep:** \$200. [94121]

**Fly-Fishing the Alagnak, Katmai Park—August 1–10.** The Alagnak is a glorious place for the fly-fisher. From Anchorage we fly to Ilamna then transfer to floatplanes and head to Norvanuk Lake, where we first wet our lines. Traveling by raft, camping along the shore, and fishing for salmon, rainbow, char, and grayling make for tight line excitement and adventure. Airfare from Anchorage is included in trip price. **Leader:** Chuck Schultz. **Price:** \$2,095; **Dep:** \$200. [94122]



**Leader:** Jon Kangas. **Price:** \$1,895; **Dep:** \$200. [94123]

**Florence Lake Cabin Service Trip, Admiralty Island—August 9–19.** Travel by floatplane to a remote island in southeast Alaska! We'll be repairing and building puncheon, boardwalk, and trails from the shore to the island interior, using 80-percent-native materials. Expect rain, hard work, great food, abundant wildlife, and fun in a small group. **Leader:** Bruce Horn. **Cook:** Eric These. **Price:** \$595; **Dep:** \$100. [94124]

**Twin Lakes Base Camp and Rafting, Lake Clark Park and Preserve—August 1–13.** After a spectacular floatplane flight past deep canyons and over spectacular glaciers, splash down on Twin Lakes and prepare to spend a low-key week of dayhiking, napping, reading, fishing, exploring, and looking for salt licks, wildflowers, Dall sheep, and caribou. Then paddle, explore, relax, and fish on the Chikadrotna and Mulchatna Rivers. This is an ideal trip for introducing an older son or daughter to the wilderness.

**Toklat River Service Trip, Denali Park—August 12–22.** Adventure in magnificent Denali Park, home to caribou, grizzly, Dall sheep, and the continent's highest mountain. We will be staking the wilderness boundary in the park's remote southern portion. We'll move our base camp two or three times, fording streams and hiking over trailless terrain of tundra and alder. Participants must be experienced backpackers able to carry heavy loads. Strenuous. **Leader:** Bob Hayes. **Cook:** Gretchen Muller. **Price:** \$450; **Dep:** \$50. [94125]

# BACKPACK



**E**XPERIENCE WILDERNESS on a rewarding and enjoyable backpacking expedition. Carrying everything you need for the trip in a pack allows for 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 backpack trips participants share cooking and cleanup chores, and are expected to carry a share of food and commissary gear in addition to personal belongings.

First-timers should be aware that backpacking by its very nature is a strenuous activity. 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 layover. 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.

**Just Around the Bend, Big Bend Park, Texas—February 6–14.** Warm days, frosty nights, alpine forests, and agave-studded desert terrain are among the many remarkable contrasts found in Big Bend National Park. We begin our 50-mile adventure high in the Chisos Mountains, then descend timeless canyons to the desert floor and the heart of the most isolated and diverse park in the

U.S. Food caches will lighten our packs. (Rated M-S) *Leader: Scott Kingham. Price: \$450; Dep: \$50. [94421]*

**Superstition Wilderness Trek, Tonto Forest, Arizona—February 20–26.** Hiking 50 miles east of Phoenix within the Superstition Mountain range, we'll traverse high Sonoran Desert terrain. Daily hikes will range from six to eight miles



over well-marked trails. Famous for the legendary Lost Dutchman Gold Mine, the area provides a wide variety of desert flora and fauna and geological formations. There will be one layover day. (Rated M) *Leader: Jack Thompson. Price: \$305; Dep: \$50. [94031]*

**Florida Trail Odyssey, Ocala Forest, Florida—February 27–March 5.** Warm your winter-weary bones and escape to Ocala, the southernmost national forest in the continental United States. Our 37-mile hike on the Florida Trail skirts several ponds and grassy prairies ideal for viewing wildlife. We'll spend one layover day at Juniper Springs canoeing its clear, twisting stream lined with lush vegetation. Two food caches will lighten our loads. (Rated L-M) *Leader: Steve Rodney. Price: \$375; Dep: \$50. [94032]*

**Castles in the Sky, Kofa Wildlife Refuge, Arizona—March 19–26.** Dream beneath fantastic rock "castles" on this 40-mile adventure. The Castle Dome

**Clockwise from top:** aspen leaves; Lower Blue Lake, Colorado; mountain goat; Cascade Mountains, Washington.



Mountains, comprised of ancient volcanic rock, define Kofa's southern boundary and showcase the best of Sonoran Desert ecology, including 1,000 bighorn sheep. We'll travel off-trail through this unique mountain range to explore one of Arizona's most pristine wilderness areas. For experienced backpackers. (Rated M-S) *Leader: Scott Kingham. Price: \$350; Dep: \$50. [94033]*



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**Rainbow Bridge and Navajo Mountain, Arizona and Utah—**

**April 2–9.** In the cool high desert of the Navajo Reservation, we'll circle the north flank of 10,388-foot Navajo Mountain, following unmaintained trails through a wonderland of winding sandstone canyons, natural bridges, and domes. Except for a long, demanding first day, our pace will be leisurely, with ample time to enjoy deep pools, photography, and exploration. Vegetarian menu available. (Rated M) Leader: Terry Gustafson. Price: \$415; Dep: \$50 [94034]

**Arizona Trail, Superstition Wilderness, Arizona—April**

**3–9.** Follow the footsteps of Salado Indians, Spanish explorers, and 19th-century ranchers and miners. Our 35-mile route along the Arizona Trail travels through Sonoran Desert, lush riparian canyons, and ponderosa pine forests. Side trips take us to Indian ruins and an Indian medicine wheel. Four- to nine-mile daily hikes; frequent altitude changes; one layover day. Beginners in good shape welcome. (Rated M) Leader: Lee A. Kintzel. Price: \$390; Dep: \$50 [94035]

**Anasazi Country, Southeast Utah—April 17–23.**

Hiking distances of less than six miles a day allow time for exploring. We'll probe the natural and cultural wonders of southeast Utah's Fish, Road, and Owl canyons, and camp in whispering cottonwood or juniper. Wildflowers, wind-carved Cedar Mesa Sandstone, and marvelous Anasazi ruins are all there for our enjoyment. Steep canyon entry and exit raise rating. (Rated L-M) Leader: Neil Stufflebeam. Price: \$405; Dep: \$50 [94036]

**Galiuro Wilderness, South-eastern Arizona—April 17–23.**

This is real wilderness—rugged,

## BACKPACK

primeval, seldom visited. Following old trails (or going cross-country) we'll hike over dry ridges with brightly colored soils and down into forested canyons with running streams and irresistible pools. In Redfield we'll see lovely wilderness that, thanks to the Nature Conservancy, is cattle-free. No layover days, but plenty of time to explore and enjoy. (Rated M-S) Leader: Sid Hirsh. Price: \$310. Dep: \$50. [94037]



Clockwise from above: Big Bend, Texas; red-tailed hawk; Sawtooth NRA, Idaho; poppies and barrel cactus, Arizona.

### Carmel River, Ventana Wilderness, California—April 23–30.

On our spring sojourn we'll explore the ridges and rivers of the Big Sur coast country. Camps will either be on high ridges with expansive views or in two river valleys, where wildflowers bloom in abundance. Veteran backpackers and in-shape beginners are welcome. (Rated M) Leader: Bob Berges. Price: \$285. Dep: \$50. [94038]



### Paria Canyon Wilderness, Arizona—April 23–30.

Och and ah as you walk and wade through 36 miles of Arizona's exquisite contrasting desert landscape. This wilderness offers spectacular sandstone slot canyons, broad valleys, spring wildflowers, petroglyphs, and challenging side canyons. Photographic opportunities abound—bring plenty of film. Come prepared to enjoy optional side-canyon hikes, two layover days, and highly seasoned ethnic cuisine. (Rated L-M) Leader: Martin Rosenthal. Price: \$365. Dep: \$50. [94039]

### Canyons and Mesas of the Rainbow Plateau, Arizona—April 24–30.

Join the first group to complete this rugged 31-mile cross-country loop on the Navajo Reservation west of Navajo Mountain. Traverse complex slickrock domelands, walk on a desert bench at the foot of towering cliffs, and explore a deep, sculpted sandstone can-





yon on our layover day. We'll cross 6,700-foot Cummings Mesa on our way back. Experienced hikers only. Vegetarian menu available. (Rated M-S) *Leader: Terry Gustafson. Price: \$400. Dep: \$50. [94040]*

**Rainbow Bridge and Navajo Mountain, Arizona and Utah—April 24–30.** Explore the grandeur of the redrock wilderness surrounding Navajo Mountain, a place sacred to the Navajo. The terrain is rugged and the trails unmaintained, but the maze of canyons and deep alcoves and the myriad rock formations will reward our efforts. Highlighting our trip will be a visit to Rainbow Bridge, the world's largest natural arch. At least one layover day is planned. (Rated S) *Leader: Larry Odoski. Price: \$455. Dep: \$50. [94042]*

**Dirty Devil Sojourn, Southern Utah—April 24–May 1.** With acclaimed backcountry author Steve Allen, our small group of

experienced canyoneers will visit many of the rarely explored side canyons and slots of 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: Della Lewis. Price: \$540. Dep: \$100. [94043]*

**Kanab Canyon and Thunder River, Grand Canyon Park, Arizona—April 30–May 7.** This 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: \$335. Dep: \$50. [94044]*

**Sycamore Canyon Wilderness, Northern Arizona—May 1–7.** Backpack seven days and 35 miles through a spectacular canyonland awash in color and vegetation. Unique cliff formations etched out by water and wind give way to rugged terrain for us to explore. Boulder-hop-

ping and creek crossings on several trail sections will make for some rough going, but we'll have two leisurely layover days to rest and dayhike. (Rated M-S) *Leader: Duane Ottens. Price: \$420. Dep: \$50. [94045]*

**Sky Island Treasures, Cave Creek Canyon and Chiricahua Wilderness, Arizona—May 8–14.** Bring binoculars for this easy-going "double exposure" adventure. First, three days of exceptional bird-watching and dayhiking from our 5,000-foot base camp at Cave Creek Canyon, a renowned birding hot spot. Second, we car-shuttle to our 8,400-foot trailhead for a 15-mile, four-day backpack (one layover) through lush alpine forest around 9,800-foot Chiricahua Peak and down Cave Creek Canyon. Beginners and laid-back veterans welcome. (Rated L-M) *Leader: Ed Marty. Price: \$425. Dep: \$50. [94046]*

**Exploring Dark Canyon, Utah—May 14–21.** Our trip through this desolate canyon begins at 8,000 feet in aspen and pine and descends into desert as the canyon empties into Lake Powell (2,700 feet). Beneath towering walls painted with desert varnish, we will discover

## ROCKY MOUNTAIN ECOREGION



The Rocky Mountain Ecoregion, which extends from Jasper National Park in Canada south to where the Rio Grande empties into Mexico, is blessed by a long history of wilderness protection. Containing some of our greatest national parks, such as Glacier, Yellowstone, and Rocky Mountain, the "roof-top of North America" has

retained much of its wild character. But this wilderness is threatened on many fronts. Rampant logging, mineral extraction, off-road vehicles, and resort development are obliterating roadless areas, rerouting rivers, disfiguring mountainsides, and uprooting native people and wildlife.

Sierra Club citizen activists are working on wilderness legislation and binding conservation plans for critical areas; such protection is needed for species like wolf, grizzly bear, and salmon, which require large, uninterrupted tracts of wilderness or free-flowing rivers to survive. Also on the agenda for our activists—implementing recovery plans for these vanishing species, the cleanup of toxic wastes at the Rocky Flats nuclear weapons plant, and the reduction of unsustainable resource extraction through reforming the outmoded 1872 Mining Law and eliminating below-cost timber sales.

The Sierra Club needs your support for these efforts, and invites you to explore and enjoy the natural bounty of the ecoregion on an outing to the Rockies. See Backpack, Base Camp, Family, Highlight, Service, and Water for trips.

## BACKPACK

crystal-clear aquamarine pools, waterfalls, and lush gardens. Two layover days are planned to fully explore side canyons and their treasures. (Rated M-S) *Leader: Alix Foster. Price: \$460; Dep: \$50. [94047]*

**Gila and Aldo Leopold Wilderness Areas, New Mexico—May 15–21.** Trek across the world's first designated wilderness areas. From the desert riparian areas of the Mimbres River and Black Canyon to the subalpine zone of Reed's Peak, Mimbres Lake, and McKnight Mountain, we travel amid wildflower meadows, mountain lion signs, Indian ruins, elk herds, and ponderosa pine. Cross-country travel and river-wading will create a challenge. (Rated M-S) *Leader: David Morrison. Price: \$370; Dep: \$50. [94048]*

**Dark Canyon Descent, Dark Canyon, Utah—May 22–29.** Towering cliffs, inviting pools, hidden waterfalls, and changing vegetation await the adventurous traveler. Starting at 8,000 feet among aspen and pine groves, our route drops almost a mile through layers of sandstone, shale, and limestone to the lower reaches of the canyon near Lake Powell. We'll explore side canyons, test the waters, and soak up scenery on the way down. (Rated M) *Leader: Lasta Tomasevich. Price: \$460; Dep: \$50. [94049]*

**Leadership Training, Canyon Country of the Arizona/Utah Border—May 29–June 4.** Secret canyons of the high desert is the locale for the fourth annual Southwest Subcommittee training seminar. 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: \$360; Dep: \$50. [94130]*

See page 82 for an explanation of backpack ratings.

**Paria Canyon Teen Trip, Vermillion Cliffs Wilderness, Arizona and Utah—June 3–9.** The Paria River begins at Bryce Canyon and flows south, crossing the Utah-Arizona line and emptying into the Colorado River. It creates one of the most popular canyons on the Colorado Plateau. If you like narrow canyons and want to enjoy the best slot-canyon hike in the world, this is the outing for you. Ideal for teens, families with teens, and adults. (Rated M) *Leader: Bob Flores. Price: \$460; Dep: \$50. [94131]*

**Wellness Adventure, Oak Creek Canyon, Arizona—June 5–11.** This lush redrock canyon near Sedona and the adjacent pine forest will be the setting for our discussions on physical, mental, and spiritual health. Mornings will include meditation and stretching. Meals will be vegetarian. Evenings and one layover day will be spent exploring, swimming, and sharing thoughts on selected wellness topics. Participation in menu and topic selection is welcome. (Rated M-S) *Leader: Frank Moe. Price: \$350; Dep: \$50. [94132]*

**Clouds Rest and Half Dome, Yosemite Park, Sierra—June 16–23.** Starting and finishing at Tuolumne Meadows, we'll see the best of Yosemite on a route that takes us to each High Sierra Camp. We'll be there before the crowds, when waterfalls are fullest and vegetation lushest. On our layover day, dramatic panoramas will unfold atop Clouds Rest and Half Dome. Good physical condition required for six- to ten-mile days at high elevation (highest point 10,180 feet). (Rated M) *Leader: Melinda Goodwater. Price: \$285; Dep: \$50. [94133]*

**Mt. Rogers Recreation Area, Virginia—June 19–26.** Climb the highest peak in Virginia as we explore the heart of the Mt. Rogers National Recreation Area. Our 56-mile tour traces the Appalachian Trail across the alpine crest of Mt. Rogers and Whitetop Mountain, before circling by way of Iron Mountain and the Virginia Creeper Trail. A layover day will allow us to enjoy the scenic meadows of

nearby Grayson Highlands State Park. (Rated M) *Leader: Glenn Gillis. Price: \$330; Dep: \$50. [94134]*

**Spirit Lake Sojourn, Marble Mountain Wilderness, California—June 22–30.** Explore the wild Salmon River country. After ascending through old-growth forests and mountain meadows, we'll wind our way along the ridgetops to Spirit Lake, then dayhike to the top of Marble Mountain itself. Our leisurely pace and layovers allow time for

**Enchanted Valley to Honeymoon Meadows, Olympic Park, Washington—July 6–13.** Discover the Olympics! Join us as we journey through the Quinault Rainforest, spend a day exploring a valley that's been called the "Yosemite of the Northwest," walk up and touch a glacier, and hike through the wildflowers of Honeymoon Meadows. All of this plus two layover days. A trip designed for newcomers as well as laid-back veterans. Refer to companion trip #94138 for additional details.



trout-fishing, wildflower hunting, or relaxing by lakeside. Beginners welcome. (Rated L) *Leader: Russ Higbee. Price: \$335; Dep: \$50. [94135]*

**Three Passes Loop, John Muir Wilderness, Sierra—June 30–July 9.** We will hike up long, green canyons deep into the Sierra, then over Pine Creek and Italy passes. Our loop back wanders through the lush meadows of the Hilgard Branch and up Bear Creek to Selden Pass, with wide-angle views of the Bear Creek drainage. A round-trip ferry ride on Florence Lake will save some miles, and two layovers offer fishing and exploration. (Rated L-M) *Leader: Diane Cook. Price: \$415; Dep: \$50. [94136]*

Clockwise from left: Escalante River, Utah; Joshua Tree, California; Natural Bridges National Monument, Utah; orb web.

(Rated L-M) *Leader: Jim Kirkpatrick. Price: \$425; Dep: \$50. [94137]*

**Honeymoon Meadows to Enchanted Valley, Olympic Park, Washington—July 6–13.** Novice and experienced hikers alike will enjoy our 29-mile trek through Olympic National Park. Honeymoon Meadows, Anderson Pass, Anderson Glacier, Enchanted Valley (often referred to as the Valley of a Thousand Waterfalls) and the Quinault River Rainforest are renowned

for their beauty. Two layover days and short hiking days make this an adventure not to be missed. There will be a key exchange with companion trip #94137 (see above). (Rated L-M) Leader: Bob Anderson. Price: \$425; Dep: \$50. [94138]

**The San Juans, Weminuche Wilderness, Southwest Colorado—July 9–16.** The San Juan Mountains of southwestern Colorado offer the well-conditioned hiker the very best in alpine hiking. Whether exploring



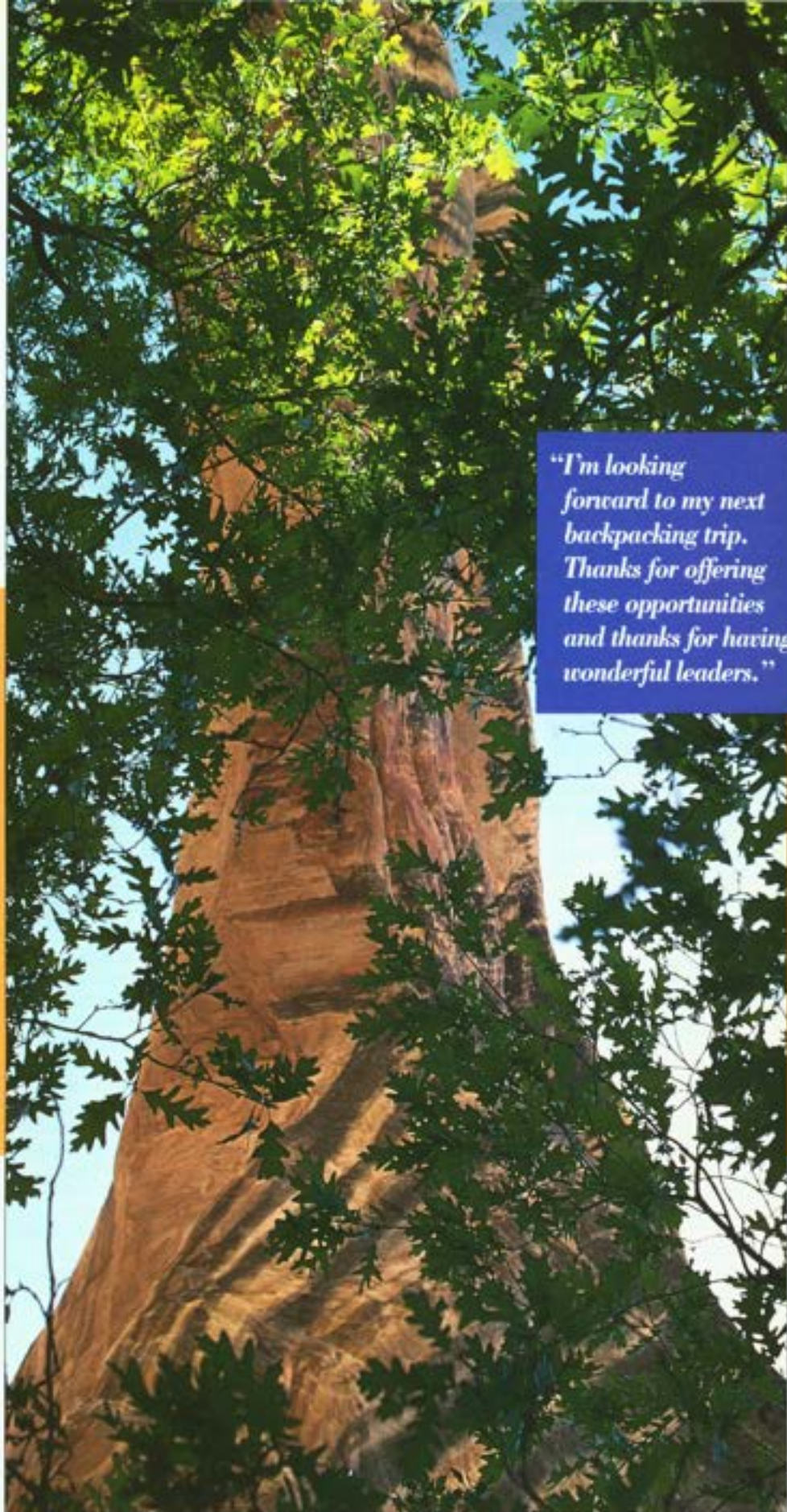
SCOTT HANSHAW



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abandoned mines, scaling 14,000-foot Mt. Windom, fishing for supper in trout-filled lakes, or finally 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: \$450; Dep: \$50. [94139]

**Kings Middle Fork by the Old Trail, John Muir Wilderness and Kings Canyon Park, Sierra—July 9–18.** Our hike follows an old sheep trail into the



BOB HANSHAW

*"I'm looking forward to my next backpacking trip. Thanks for offering these opportunities and thanks for having wonderful leaders."*

## BACKPACK

heart of Kings Canyon's remote Middle Fork country. We'll descend the long-abandoned Tunmah Trail to idyllic Simpson Meadow, then journey downriver to spectacular Tehipite Valley, the Sierra's "unknown Yosemite." Breathtaking scenery, unparalleled fishing on one of California's wildest rivers, and a colorful diversity of flora await the adventurous hiker. Three layover days are planned. (Rated M-S) Leader: *Lou Argyres*. Price: \$395; Dep: \$50. [94140]

**Swimming Holes of the Ice Age, Yosemite Park, Sierra—July 10–17.** Water, water everywhere! Join us in leisurely hiking and swimming through pine-forested granite basins. Several cross-country days are interspersed by layover days. Swim daily in pristine lakes formed by halting glaciers of the Ice Age. Discover the source of the first Sierra Nevada water to travel to the young city of San Francisco. (Rated L-M) Leader: *Bob Ruff*. Price: \$305; Dep: \$50. [94141]

**Too Many Lakes and Creeks to Count, Emigrant Wilderness, Sierra—July 10–17.** Leave your cares at home and spend eight glorious days exploring granite valleys and gentle meadows. Our 44-mile loop takes us all the way to Cherry Creek Canyon and Yosemite's Kibbie Ridge. Expect elevations from 7,000 to 9,000 feet, six moderate but exciting cross-country miles, and two layover days. Perfect for beginners and laid-back veterans with strong legs and lungs. (Rated L-M) Leader: *Jerry Shluker*. Price: \$325; Dep: \$50. [94142]

**Highland Lake Sampler, Stanislaus Forest, Carson-Iceberg Wilderness, Sierra—July 11–15.** Spend time at Highland Lakes on a picturesque sub-alpine flat at 8,600 feet. Dayhike to nearby peaks, fish, or enjoy the flowers. A one- or two-night backpack down Highland Canyon will give you a taste of wilderness travel. Strange volcanic formations and granitic slabs make the scenery some



of the most dramatic in the Sierra Nevada. Suitable for beginners and seniors alike! (Rated L-M) Leader: *Roz Bray*. Price: \$200; Dep: \$50. [94143]

**Backpacking Field Seminar, Kings Canyon Park, Sierra—July 14–23.** Learn how backpacking can be a rewarding and enjoyable experience. Pre-trip and on-trip class subjects will include trip-planning, equipment selection, food, first aid, map-reading, and cross-country-travel skills. A trip open to anyone who is in reasonable physical condition. Experience how wilderness beauty, solitude, and physical effort can enrich your life. (Rated M) Leader: *Gordon Peterson*. Price: \$380; Dep: \$50. [94144]

**In the Shadow of Matterhorn Peak, Yosemite Park, Sierra—July 16–24.** Through wildflower-

filled meadows and pine forests, amid peaks and glacier-polished domes, we'll hike eight miles a day to lakes and streams, over passes, and up Matterhorn Canyon. A well-deserved layover day at Rodgers Lake promises alpine R & R—dayhiking and brisk swimming below rocky ledges. As we complete our loop, we can attempt 12,264-foot Matterhorn Peak for more sublime views from the crest of the High Sierra. (Rated M-S) Leader: *Libby Dressel*. Price: \$340; Dep: \$50. [94145]

**A Philosopher, a Scientist, and a Lake Called Wanda, Kings Canyon Park, Sierra—July 16–24.** Join us for a challenging walk around the Glacier Divide, to where Goethe and Darwin dominate the skyline above the meadows and breathtaking lakes of Evolution Valley. From there it's over Muir and

Bishop passes. Expect invigorating hikes at high elevations. Two layover days will provide the opportunity to climb peaks, explore basins and canyons, or brave those glacial lakes! (Rated M-S) Leader: *Lynn Lawson*. Price: \$450; Dep: \$50. [94146]

**Vanson Peak Backcountry, Mount St. Helens Volcanic Monument, Washington—July 17–23.** Wildflowers, huckleberries, and riveting views of Mounts St. Helens, Rainier, and Adams are our rewards as we hike through the May 1980 volcanic blast zone into alpine terrain. We'll linger at cool waterfalls and pass through awe-inspiring old-growth Douglas fir and spotted-owl habitat. A layover day will offer R & R or further exploration in this area of contrasts. (Rated L-M) Leader: *Lehman Holder*. Price: \$395; Dep: \$50. [94147]



Clockwise from top left: Canyonlands National Park, Utah; Mt. Whitney, Sierra; water lilies; Three Sisters Wilderness, Oregon.

**West Coast Shipwreck and Lighthouse Trail, Vancouver Island, British Columbia, Canada—July 17–23.** Our trail follows the "Graveyard of the Pacific"—a coast that has claimed 60 ships. Two ferry boats take us to the trailhead, then we hike 50 miles on beaches, up ladders, atop rain-forest bluffs, across suspension bridges, and by cable cars. We will discuss history, geology, flora and fauna, tidepools, and conservation issues. (Rated M-

S) Leaders: *Craig F. Miller and Jeff Jackson.* Price: \$425; Dep: \$50. [94148]

**Yosemite High Country Circle, Sierra—July 17–23.** Looking southwest from Tuolumne Meadows, we head for the towering, snow-capped Vogelsang, Unicorn, and Cathedral peaks. Hiking distances average nine miles with 2,000-foot elevation changes. Climbing Half Dome is an option. We'll be above and below the treeline, with clear, rock-bound lakes and high peaks. There's one layover day for counting butterflies, out-smiling wildflowers, or peak-bagging. (Rated M) Leader: *Jim Halverson.* Price: \$270; Dep: \$50. [94149]

**From Desolation to Honey-moon, John Muir Wilderness, Sierra—July 17–24.** Views of Mt. Humphreys and spectacular Glacier Divide highlight our scenic 26-mile trail. The route encompasses granite basins, forested lakes, and open meadows. Beginning at North Lake outside of Bishop, we visit Desolation Lake, famous for golden trout, and move on to Hutchinson Meadows and Honey-moon Lake, exiting at Pine Creek. Suitable for beginners or laid-back veterans. (Rated L) Leader: *Monava Afhan.* Price: \$360; Dep: \$50. [94150]

**Through the Keyhole and Beyond, Kings Canyon Park, Sierra—July 21–30.** Our cross-country ramble through the high country takes us over the Glacier Divide, through the Keyhole, and across Evolution Valley. Hiking will be rigorous, but we'll cover just 35 miles in ten days. Several short moving days and two layovers leave plenty of time for exploring, peak-bagging, or just plain snoozing in high-mountain sunshine. For adventurous, experienced backpackers! (Rated M-S) Leader: *Stuart Simon.* Price: \$435; Dep: \$50. [94152]

**Wild Yosemite Northwest II, Yosemite Park, Sierra—July 21–30.** Tucked away in northwest Yosemite lies a little-known, rarely visited granitic wildland, the topography of which looks much as it did when the Sierra emerged from the Ice Age 20,000 years ago. On our mainly off-trail adventure (which

includes two layover days), we will experience this wonderland of stupendous cliffs, cool forest groves, splendid waterfalls, and inviting swimming holes. (Rated M) Leader: *Matt Hahne.* Price: \$460; Dep: \$50. [94153]

**In the Heart of the Cascades, Three Sisters Wilderness, Oregon—July 23–30.** Glaciated volcanic peaks, old-growth forests, wildflower meadows, and abundant waterfalls are some highlights of this spectacular and diverse 280,000-plus-acre wilderness. We'll hike 50 to 60 miles on- and off-trail at elevations of 4,000 to 10,000 feet. Vegetarian cuisine and public-land-use discussions also featured on this adventure. A former Three Sisters Wilderness backcountry ranger leads this challenging, rewarding journey. (Rated M-S) Leader: *Jeff Mitchen.* Price: \$365; Dep: \$50. [94154]

**Alpine Lakes, Old-Growth Rainforest, and Wilderness Seacoast, Olympic Park, Washington—July 23–31.** All this and a layover day on an eight-day backpack? Where else but Olympic National Park? Sample this variety on a four-day, 26-mile trip through the Seven Lakes Basin-High Divide high country and Hoh rainforest, followed by a soak at Sol Duc Hot Springs, and finishing with another four days (14 miles) on the rugged north end of the park's coast strip. (Rated M) Leaders: *Alice and Duribar Susong.* Price: \$410; Dep: \$50. [94155]

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## BACKPACK

### The Scenic Magic of Fortress Lake, Jasper and Hanber Parks, Alberta and British Columbia, Canada—July 23–31

Straddling the Continental Divide among 10,000-foot peaks near Jasper Park, our Canadian Rockies adventure will include dayhikes and boating at a stunning "glacial milk," turquoise lake; two luxuriating overnights at a backcountry lodge; exploring glacial moraines; climbing toward chiseled peaks to overlook icefields; and lounging on wildflower-strewn slopes. Two layover days for photography, fishing, exploring. Adventurous novices to more experienced backpackers welcome. (Rated M) Leader: *Bill Evans*. Price: \$1,060; Dep: \$200. [94156]

### Bighorn Crags and Impassable Canyon, Frank Church—River of No Return Wilderness, Idaho—July 24–30

Jagged, rocky peaks dominate the dozens of crystal-clear lakes in the Bighorn Crags, where snow often lingers through August. Nearby, the land cascades down into a dramatic, mile-deep canyon where the turbulent Middle Fork of the Salmon River flows between steep, rocky walls. Our route features a hot spring, the wild river, and a layover day to enjoy exploring the Crags. (Rated S) Leader: *Ted Doff*. Price: \$475; Dep: \$50. [94157]

### Green Mountains Adventure, Camel's Hump Forest Reserve, Vermont—July 24–30

Our trip crosses Camel's Hump, which features a glacier-created community of fragile arctic tundra generally found 1,000-plus miles north. You can also anticipate Wind Gap, Ladder Ravine, and an underground stretch through Dean Cave. Although this 37-mile stretch of the Long Trail is demanding, we'll have ample time to explore the glacial potholes and lush mountainsides we pass through. One layover day. (Rated M) Leader: *Janice Birnbaum*. Price: \$350; Dep: \$50. [94158]

### Island Lake Loop, Bridger Wilderness, Wyoming—July 24–30

The Continental Divide is the backbone of the Wind River Range, and forms the northern and eastern boundary of the Bridger Wilderness. Beautiful flowers, rugged scenery, and great fishing abound in this area. We will backpack into Island Lake, and on our three layover days we will hike to Titcomb Lakes, climb Fremont Peak (13,745 feet), fish, or just relax. (Rated M) Leader: *Barbara Beaumont*. Price: \$400; Dep: \$50. [94159]

### Lakes and Meadows of the Trinity Alps, California—July 24–30

Our 30-mile, 7,500-foot-gain route passes through fields of flowers, skirts glacial lakes, and crosses rocky ridges affording vistas of the highest peaks and deepest canyons of this remote and relatively unspoiled region. This area is a microcosm of the High Sierra—five trail miles offer you a variety of scenic features it would take ten miles to see in the Sierra. One layover day is for exploration, fishing, or loafing. (Rated L-M) Leader: *Gerry Dunie*. Price: \$360; Dep: \$50. [94160]

### Royal Arch and Ostrander Lakes, Yosemite Park, Sierra—July 24–31

This loop trip through the land of John Muir takes us south of Mono Meadows to an area of beautiful meadows, streams, and lakes. Each moving day, we'll travel short distances with minimal altitude gains and losses. Afternoons and layover days are free for photography, fishing, or relaxation. Less than 30 miles total travel at lower elevations make this a nature lover's delight. (Rated L) Leader: *Hal Fisher*. Price: \$300; Dep: \$50. [94161]

### Gemini Circuit, John Muir Wilderness, Sierra—July 24–August 1

We hike through a land of fabulous extremes, ranging from dense forest to barren cirque basins as well as hanging gardens. Our 45-mile, nine-day circle out of Florence Lake includes a generous measure of high-elevation cross-country adventure. This west front of the John Muir Wilderness contains a galaxy of idyllic lakes against



backdrops of magnificent peaks, including Seven Gables, Turret, Feather, and twin-spired Gemini. (Rated M) Leader: *John Bird*. Price: \$355; Dep: \$50. [94162]

### Lake Basin Cross-Country Getaway, Kings Canyon Park, Sierra—July 24–August 1

Exhilarating cross-country travel along the glaciated Cirque Crest is the prominent feature of this nine-day, 40-mile trip. Starting from beautiful Cedar Grove, we'll climb to timberline to explore dozens of lakes, basins, and peaks. Leave the frantic crowds behind and join us for thrilling hiking, pristine settings, and delicious food. (Rated M-S) Leader: *Andy Johnson*. Price: \$330; Dep: \$50. [94163]

### Maroon Bells—Snowmass Wilderness, Aspen, Colorado—July 25–30

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 14,082-foot Snowmass Peak, or simply relax

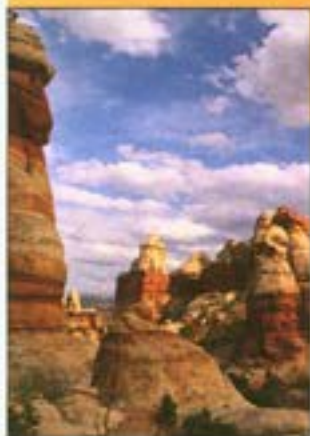
by the lake. Hearty vegetarian cuisine will complement our trek. Bring an adventurous spirit to enjoy the best the Rockies have to offer! (Rated S) Leader: *Kim Lardzabal*. Price: \$410; Dep: \$50. [94164]

### Around the Kaweah Peaks, Sequoia and Kings Canyon Parks, Sierra—July 26–August 4

This loop trip will familiarize you with the Great Western Divide country. Our route takes us by remote lakes, large arroyos, and isolated basins, and offers real wilderness isolation, hikes around 13,000-foot peaks, and a combination of trail travel and challenging cross-country. Two layover days allow for exploring, peak-bagging, or relaxing. (Rated S) Leader: *Bob Madsen*. Price: \$350; Dep: \$50. [94165]

### Pyramid Lakes Teen Trip, Bridger Wilderness, Wyoming—July 27–August 3

See page 110 for details. (Rated M) Leaders: *Joanie and Mike Hoffmann*. Price: adult \$365; child \$245; Dep: \$50. [94273]



**LeConte Divide Loop, John Muir Wilderness, Sierra—July 29–August 6.** Starting from the Sierra's gentle west side, we circle the lofty LeConte Divide. Featuring mostly cross-country travel with two or three layovers, we revel in a dazzling wealth of remote lakes and obscure peaks in Six Shooter, Hell-For-Sure, and Red Mountain basins—high, little-traveled amphitheaters of John Muir Wilderness drama. Elusive Mt. Shinn is our last peak. (Rated M) *Leader:*

*Above left: Smoky Mountains National Park, Tennessee; top right, North Cascades, Washington; lower right, blacktail deer fawn, Olympic National Park, Washington; lower left: Canyonlands National Park, Utah.*

*Vicky Hoover. Price: \$330; Dep: \$50. [94166]*

**High Sierra Natural History, Ansel Adams Wilderness, Sierra—July 30–August 6.** Tom Steller, Curator of Oakland Museum's Gallery of California Ecology, accompanies us on a 40-mile journey along silvery streams and alpine lakes in this granite wilderness on Yosemite National Park's southern border. As we climb from 7,000 to 10,500 feet on our cross-country route, Tom's triside observations highlight the Sierra's ecological diversity and acquaint us with the life of the mountains. Experienced backpackers, please. (Rated M) *Leader: Alice Kulka. Price: \$335; Dep: \$50. [94167]*

**San Juan Mountains, Weminuche Wilderness, Colorado—July 30–August 6.** If you

want to enjoy the wildflowers and experience the San Juan Mountains at a leisurely pace, this is the trip for you. We'll ride the Durango-Silverton Railroad to and from our trailhead, and travel cross-country and on unmaintained trails. On three layover days, we'll explore 13,000-foot passes, alpine lakes and meadows, and 14,000-foot peaks. Well-conditioned beginners welcome. (Rated L-M) *Leader: Lee A. Kintzel. Price: \$530; Dep: \$100. [94168]*

**Teton Crest Trail, Grand Teton and Targhee Forest, Wyoming—July 30–August 6.** The Teton Crest Trail climbs above 10,000 feet, presenting astounding views of Jackson and Idaho. Our 44-mile hike is on well-established trails through a high country wilderness of alpine lakes and wildflower-filled meadows. Our two layover days will let us

explore the glaciated bowl of the Alaska Basin and the dramatic 13,799-foot Grand Teton Peak. (Rated M) *Leader: Chris Merriman. Price: \$495; Dep: \$50. [94169]*

**Kings Peak Climb, High Uintas Wilderness, Utah—July 31–August 6.** You haven't experienced Utah wilderness until you've hiked the Uintas! The beauty of its forests and precipitous cliffs defies description. Its ruggedness will test our stamina and our equipment. This 35-mile loop trip up Yellowstone Creek will allow us to climb Utah's highest point, 13,528-foot Kings Peak. A vast wilderness awaits you—come take the challenge! (Rated M) *Leader: Steve Kellon. Price: \$490; Dep: \$50. [94170]*

**Crazy Lakes Cross-Country for Beginners, John Muir Wilderness, Sierra—July 31–August 7.** Learn safe and con-

**NOTE: Leader approval is required for all trips.**

*"It's been a couple of weeks since the trip and I'm still drawing energy from it."*



Above, Organ Pipe National Monument, Arizona; right, gaywings, Wisconsin; far right, Canyonlands National Park, Utah.

scientific backpacking in beautiful John Muir Wilderness. Knowledgeable, fun, and supportive leaders will guide you over 27 on-trail and cross-country miles, looping around spectacular Mt. Hooper. While brute strength isn't necessary, excellent physical pre-conditioning and a positive attitude are. Pre-trip reading and correspondence will help you prepare. (Rated M) Leader: Aline Anderson. Price: \$435; Dep: \$50 [94171]

**Matterhorn and Sawtooth Ridge, Yosemite North Country, Sierra—July 31–August 7.** Starting at Virginia Lakes and ending at Twin Lakes, we enjoy the northeastern Yosemite high



country via Summit Lake, Virginia Canyon, Matterhorn Canyon, Burro Pass, Crown Lake, and Barney Lake. Matterhorn Peak (12,264 feet) is an optional climb on our layover day below Sawtooth Ridge. (Rated M) Leader: Alan King. Price: \$315; Dep: \$50 [94172]

**The Complete Maroon Bells–Snowmass Wilderness, Colorado—July 31–August 9.** Backpack the red, wild, and rugged East Elk Mountains near Aspen, the oft-photographed and painted Maroon Bells basin, and two more great valleys. Fish, soak in hot springs, or climb the safest "fourteeners" on three layover days. Elevation changes average 1,700 feet; eight-mile daily average, mostly on-trail, with camps above 10,000 feet. (Rated M-S) Leader: Joseph O'Leary. Price: \$550; Dep: \$100 [94173]

**Minarets Wilderness Photography, Ansel Adams Wilderness, Sierra—August 1–7.** Mounts Ritter and Banner and Thousand Island Lake dominate this Sierra wilderness, which photography instructor Jim Clark will teach you to make into fine pictures. Basic and advanced photography is inte-

grated into all activities, with cross-country travel and three layover days for camera work, rambling, and peak-climbing. Mules carry our food to the first camp only. Trailhead is Mammoth Lakes. (Rated L-M) Leader: Jim Gilbreath. Price: \$430; Dep: \$50 [94174]

**Merced Peak, Yosemite Park, Sierra—August 1–10.** Southeastern Yosemite provides interesting and varied scenery with wildflowers in midsummer. Some easy cross-country travel will bring our small group to some unusual niches. Two layover days allow us to bag peaks, fish, or just relax. Moving days average about eight miles. Suitable for veterans or well-conditioned beginners. (Rated M) Leader: Bob Berges. Price: \$365; Dep: \$50 [94175]

**The Roof of Yosemite, Sierra—August 3–9.** The region





over Feather and Puppet passes and through the Bear Lakes—Tooth, Claw, Gruff, Ursa, and Teddy Bear. We will have vigorous hiking days and strenuous cross-country travel, layovers for exploring or relaxing, and a packer assist. Come prepared for excellent food, photo opportunities, and camaraderie. (Rated M) Leader: Fred Schlachter. Price: \$485. Dep: \$50 [94178]

**Yosemite Wonderland, Yosemite Park, Sierra—August 5–14.** Spend nine days in one of the most beautiful and famous parks in the United States. We will hike by Vernal and Nevada Falls and have a chance to climb Half Dome. Our highest point is Red Peak Pass (11,699 feet); a food drop will lighten our packs. Two layover days for peak-bagging and relaxing make this trip a delight for any backpacker. (Rated M) Leader: Modesto Piazza. Price: \$380. Dep: \$50 [94179]

**Enchanted Valley, Olympic Park, Washington—August 6–13.** This 28-mile loop takes us through old-growth forests, wild rivers, a remote alpine valley ringed by 3,500-foot cliffs, sparkling waterfalls, and glaciers. Three layover days allow for peak-bagging, identifying

wildflowers; watching elk, bear, or marmots; picking berries; and fishing. We'll lighten our packs by exchanging one day's work on the historic Enchanted Valley Chalet for some provisions horse-packed in. (Rated M) Leader: John Sherman. Price: \$295. Dep: \$50 [94180]

**Canada's Crest, Mt. Robson Park, British Columbia, Canada—August 6–15.** Enjoy spectacular wilderness near the highest mountain in Canada. Our group of experienced backpackers will see glaciered peaks, waterfalls, flowery meadows, and abundant wildlife, hiking six to nine miles a day at moderate altitudes. Stream crossings and changeable weather will add to the challenge. On two layover days we can dayhike to glaciers or loaf. A food drop will lighten our loads. (Rated M-S) Leader: Jack Zirker. Price: \$495. Dep: \$50 [94181]

**Above the Clouds, John Muir Wilderness and Kings Canyon Park, Sierra—August 7–13.** You can almost touch the sky in this land of Sierra skyscrapers. Enjoy the solitude of off-trail hiking, traversing high basins and endless lakes. On two layover days, you can try to climb a "fourteener" (Mt. Sil, 14,125 feet) or read a novel in

around Yosemite's highest peak—Mt. Lyell—and its glacier offers immense vistas contrasting with its Lilliputian community of alpine flowers and animals. Focus will be on alpine ecology with evening talks by a naturalist. Daily hiking distances are short but elevations of 12,000 feet require good physical conditioning. (Rated L-M) Leader: Suzanne Swedo. Price: \$280. Dep: \$50 [94176]

**Teton Basin Teen Trip, Targhee Forest, Wyoming—August 5–12.** See page 111 for details. (Rated M) Leaders: Joanie and Mike Hoffmann. Price: adult \$330; child \$220. Dep: \$50. [94278]

**Bear Paw Lake, John Muir Wilderness, Sierra—August 5–13.** We'll hike through stunning, remote high country with many stark lakes and dramatic cross-country passes on a loop

## G R E A T L A K E S



The Great Lakes Ecoregion, defined by its 94,000-square-mile watershed, extends from Minnesota's canoe country in the west to the mouth of the St. Lawrence River in the east, and today is home to ten percent of the U.S. popu-

lation and one-quarter of Canada's. 400 years of exploitation have degraded the Great Lakes system, and the area continues to face grave ecological threats.

Sierra Club activists are working toward the institution of "zero discharge" regulations to stop the dumping of toxics into the Lake Superior basin. They're also seeking to enact forestry practices that protect biodiversity; to enforce the Clean Air Act to reduce emissions from steel mills; to strengthen and enforce wetlands protection laws in the U.S. and Canada; to increase transportation and energy efficiency, and lobby the E.P.A. to clean up contaminated harbors.

The Sierra Club needs your support to be successful in these endeavors. Much beauty remains in the Great Lakes Ecoregion—rocky cliffs and forests, groves of towering white pine, rivers with lake trout, dunes and marshes that are home to rare orchids and migratory birds. Come see the region for yourself on a Sierra Club Outing. See the Backpack, Base Camp, Service, and Water sections for trips.

## BACKPACK

the Sierra quiet. Five-star food and enthusiastic leaders. (Rated M) *Leader: Rich Gross. Price: \$320. Dep: \$50. [94182]*

**Golden Lakes Loop, Okanogan Forest, Washington—August 7–13.** This 32-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. Two layover days will give us time to explore, relax, admire waterfalls, and enjoy the views. This trip is suitable for both the conditioned novice and experienced hiker. (Rated L-M) *Leaders: Marilyn and Bill Gifford. Price: \$300. Dep: \$50. [94183]*

**Kuna Crest to the San Joaquin, Yosemite Park, Sierra—August 7–14.** Starting at Tuolumne Meadows, we'll make an on-trail, High Sierra loop that will take us over eight passes in Yosemite and the Ansel Adams Wilderness. We'll go seven to 11 miles a day among the lakes, streams, and peaks that make the eastern Sierra so extraordinary. One layover day will provide an opportunity for a dayhike into Devils Postpile. (Rated M-S) *Leader: Chuck Schmidt. Price: \$305. Dep: \$50. [94184]*

**The Sierra's Highest Lake, John Muir Wilderness, Sierra—August 8–15.** Our trip circles the spectacular alpine flanks of the 14,000-foot peaks surrounding Mt. Whitney. We'll camp at Tulainyo Lake (12,802 feet) and possibly climb Mt. Russell (14,086 feet) as we cross Carillon Col. One layover day in the lovely Wallace Creek basin allows for fishing and relaxing. (Rated S) *Leaders: Cal and Letty French. Price: \$310. Dep: \$50. [94185]*

**Wah Hoo Lake Teen Adventure, John Muir Wilderness, Sierra—August 9–17.** Wonder-

ing what to do with that idle ten-day period during your summer vacation? How about a moderately paced backpack trip in the Sierra? No experience necessary. We'll teach you backpacking skills and basic wilderness survival. Layover days allow for snoozing, swimming, optional peak-climbs, bouldering, or lollygagging. Mainly for teenagers age 13 to 17 in reasonably good physical condition. (Rated M) *Leader: Patrick Colgan. Price: \$325. Dep: \$50. [94186]*

**Tawny Point Panorama, Kings Canyon and Sequoia Parks, Sierra—August 9–18.** With spectacular views of the highest peaks in California we'll hike 50 miles on the John Muir Trail. Layover days in Center Basin and at Tawny Point will give us ample time to enjoy skyline lakes and granite grandeur. Our average hike is five miles; we'll be traveling and camping at 11,000 feet. Weather permitting, we will climb Mt. Whitney (14,454 feet). Well-prepared beginners and veterans alike are welcome. (Rated M) *Leader: Kate Framan. Price: \$455. Dep: \$50. [94187]*

**The Sierra's Grand Crescendo, John Muir Wilderness and Kings Canyon Park, Sierra—August 10–20.** Known as one of the most remote parts of the Sierra, the region surrounding Mt. Goddard is unsurpassed in its majesty, ruggedness, light and shadow. We will approach this untamed wilderness directly from east-side Sierra. Our route takes us through austere country above timberline interspersed with restful lakes, meadows, and forests. At least two layover days are planned. (Rated M-S) *Leader: Mari Caihoun. Price: \$475. Dep: \$50. [94188]*

**Cirque Island, Kings Canyon Park, Sierra—August 12–19.** We begin with an exhilarating climb over Taboose Pass, then explore northward along isolated Cirque Crest. This splendid sub-range towers above the vast watershed of the Kings River and entices us with crystalline lakes and amphitheaters of vertical rock. One-fourth of our 50-mile route is cross-country as we travel through the cirques and basins of this island-

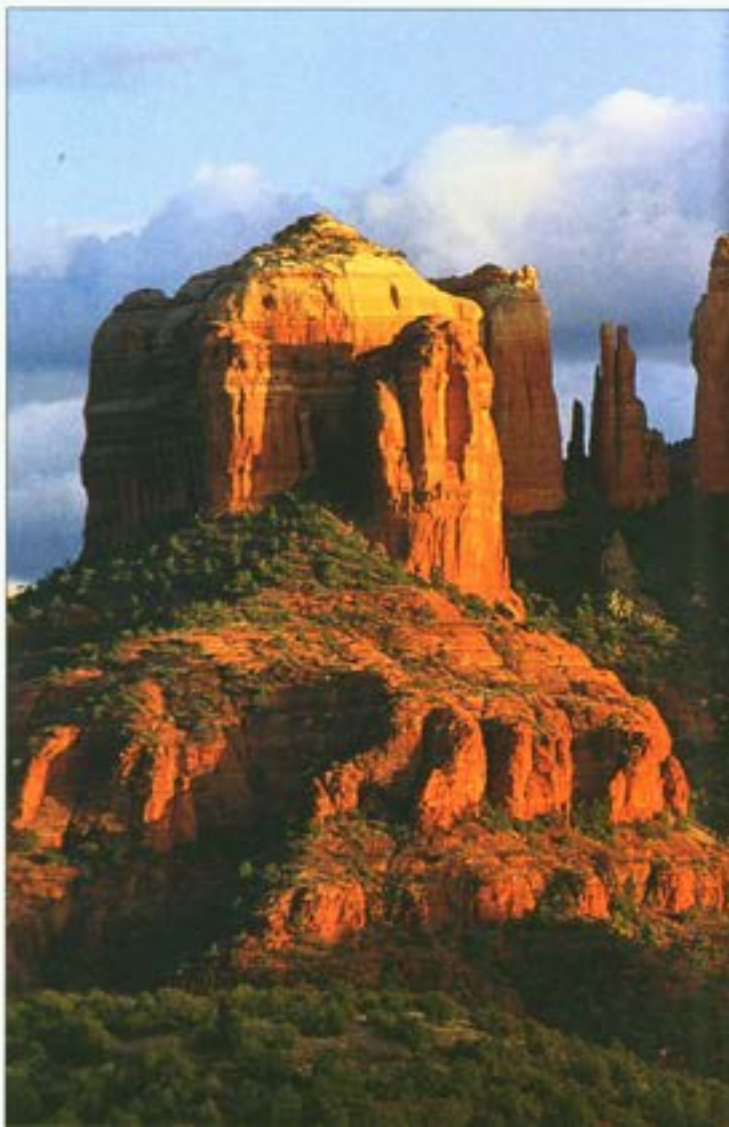
mountain paradise. (Rated S) *Leader: Scott Kingham. Price: \$360. Dep: \$50. [94189]*

**Blackcap Basin, John Muir Wilderness, Sierra—August 12–20.** Blackcap Basin, source of the North Fork of the Kings River, is a magnificent expanse of granite, alpine meadows, and more than 50 lakes. Along the way, we explore an inviting land of river, forest, and glacial valleys. We have two layover days, and a packer assist reduces the first day's load. All this and great food, too! Motivated, well-prepared beginners are welcome. (Rated L-M) *Leader: Tom Hilton-Gray. Price: \$395. Dep: \$50. [94190]*

**Headwaters of the Salmon River, Sawtooth Wilderness, Idaho—August 12–20.** Silhouetted against an azure sky, the serrated granite peaks of the Sawtooth Range rise above the Salmon River basin. Accented by numerous snowfields, the

range is dotted with emerald meadows and glacially carved subalpine lakes. Our 50-mile loop trip will circumnavigate the heart of the range, allowing two layover days for peak-bagging, fly-fishing, or just taking in the rugged scenery. (Rated M) *Leader: Lee Sayers. Price: \$470. Dep: \$50. [94191]*

**Women's Beginner Backpack, Ansel Adams Wilderness, Sierra—August 13–20.** 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 with some rock-scrambling, leaving most afternoons free to relax, explore, and perfect wilderness skills. Good physical preparation is required. (Rated L) *Leader: Jeannette Ringold. Price: \$295. Dep: \$50. [94192]*



**Lake-Hopping in the Sierra, Emigrant Wilderness, Sierra—August 13–21.** Close your eyes and imagine yourself resting beside a lovely mountain lake with the beauty of the Emigrant Wilderness all around you. You've left your worries behind, and your only problem now is deciding whether to fish, swim, explore, or just rest. A pack-drop midway will lighten our load; two layover days make this trip a real joy. (Rated L-M) *Leaders: Sy and Laura Gelman. Price: \$405; Dep: \$50. [94193]*

**Mt. Lassen by Moonlight, Lassen Park, Caribou Wilderness, California—August 13–21.** This leisurely exploration of one of northern California's uncrowded scenic treasures begins in the Caribou Wilderness and culminates with a moonlight hike up Mt. Lassen. Beginners as well as experienced hikers seeking a relaxed pace will delight in the area's many woodland lakes and

volcanic beauty. Two layover days will ensure time for swimming, exploration, or just unwinding. (Rated L) *Leader: Nancy Felling. Price: \$305; Dep: \$50. [94194]*

**The Mahoosuc Challenge, Appalachian Trail, New Hampshire and Maine—August 14–20.** The Mahoosuc Range may present the most difficult section of the Appalachian Trail. Our 33-mile trek crosses eight peaks and goes through Mahoosuc Notch, a rugged, mile-long pass between vertical cliffs. Expect excellent views of the Presidential Range. If you're looking for a hike in the wilds of the northeast, take the Mahoosuc Challenge. (Rated M-S) *Leader: Frank J. Traficante. Price: \$330; Dep: \$50. [94195]*

**Sawtooth Sojourn, Sawtooth Wilderness, Idaho—August 14–21.** Our 50-mile loop takes us from the historic mining town of Atlanta through the less fre-

quented western slope of the Sawtooth Wilderness. Along the way we'll sample pine forests, colorful meadows, granite spires, clear lakes, and tumbling streams. Three layover days are planned for exploring, scrambling peaks, fishing, and relaxing. A trip for experienced, well-conditioned backpackers. (Rated S) *Leader: Dave Derrick. Price: \$425; Dep: \$50. [94196]*

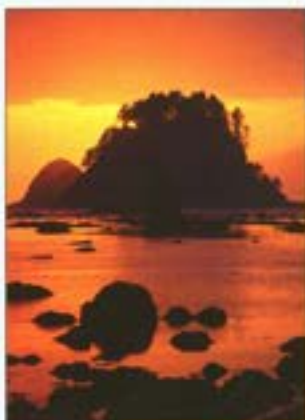


PHOTO: JEFFREY M. HARRIS



Left to right, Cathedral Rocks, Sedona, Arizona; Cape Alava, Olympic National Park, Washington; Olympic National Park.



**Squaretop Mountain Grand Loop, Wind River Range, Wyoming—August 14–23.** The Wind River Range is famous for its sheer granite peaks, sizable glaciers, and beautiful alpine lakes. On our 48-mile loop we will ascend Porcupine Canyon, visit Peak Lake, and return via the Green River. Long days on the trail will be offset by four layover days, allowing ample opportunities for fishing and peak-bagging. (Rated M-S) *Leader: Gary Cole. Price: \$515; Dep: \$100. [94197]*

**Granite Country, John Muir Wilderness, Sierra—August 15–26.** This 12-day exploration of the Silver Divide includes five layovers to stroll, fish, climb peaks, or loaf. Cross the Sierra Crest to a land of contrasts: deep valleys and alpine cirques, green forests, gray and white granite, emerald lakes, and azure skies. See Ram Lake, Fish and Mono creeks, and Pioneer Basin. Camp at 9,000 to 10,000 feet. A pack drop

PHOTO: JEFFREY M. HARRIS

## BACKPACK

eases load. (Rated L-M) Leader: *Mac Downing*. Price: \$550; Dep: \$100. [94198]

**Eighty Miles of the Continental Divide Trail, Weminuche Wilderness, Colorado—August 16–25.** Riding the narrow-gauge railroad to Silverton is the prelude to 80 miles roaming tundra ridgetops, traversing wildflower-studded passes, and fording rolling rivers. Vans return us to Durango. Backpack experience and excellent physical condition required for eight- to ten-mile days at 12,000-foot-plus elevations. Highest point is 12,880 feet. Fast pace planned to beat summer afternoon thunderstorms. (Rated M-S) Leader: *Meinda Goodwater*. Price: \$765; Dep: \$100. [94199]

**The Wild and Wonderful Monarch, Kings Canyon Park, Sierra—August 18–26.** In the high, wild country of little-traveled Monarch Divide lie some of nature's best-maintained gardens and clear, secluded lakes. This loop takes us over Kennedy Pass (10,800 feet), past Granite Pass (10,600 feet) and on through an unforgettable landscape to quiet Glacier Lakes. Packer assist on first day and two layover days leave us plenty of energy to enjoy the wonders of this area. (Rated M) Leader: *Sarah Bolles*. Price: \$390; Dep: \$50. [94200]

**Evolution Basin Peak-Bag Odyssey, Kings Canyon Park, Sierra—August 20–28.** Trek over the Glacier Divide into a basin dominated by monolithic giants and offset by high alpine lakes. In the shadow of Mounts Goethe, Darwin, and Huxley, we will be camping above 11,000 feet, traveling over rugged cross-country terrain, and spending three layover days in this land made for experienced peak enthusiasts. (Rated M) Leader: *Terry Flood*. Price: \$405; Dep: \$50. [94201]

**Northern Yosemite Peaks and Lakes, Yosemite Park, Sierra—August 21–27.** Enjoy the quiet and solitude of Yosemite's

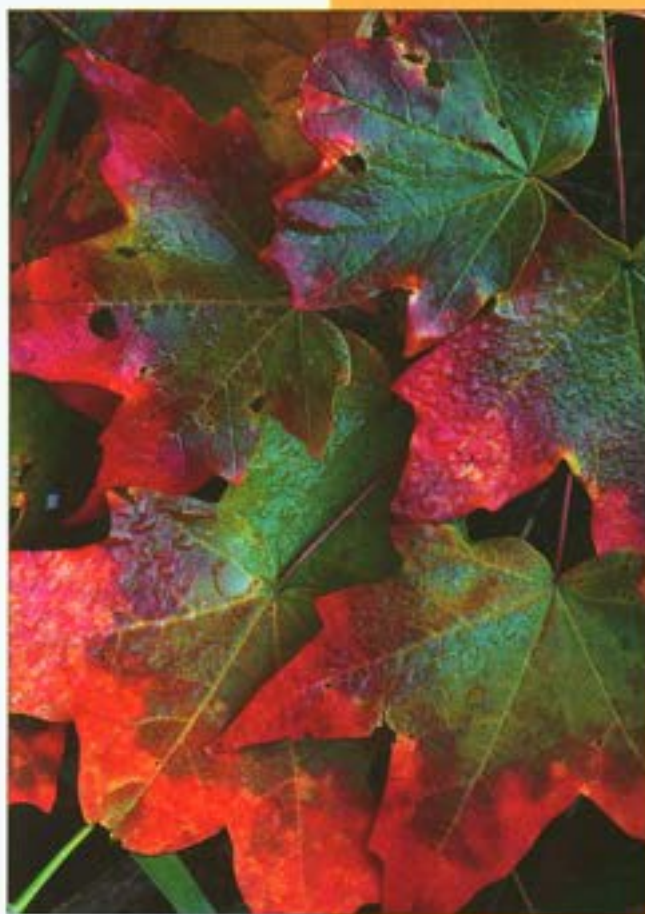
less visited northern backcountry, known for its spectacular canyons, alpine lakes, and rugged peaks. We'll explore beautiful Virginia and Matterhorn canyons and both sides of the famous Sawtooth Ridge. We'll also allow time for swimming, exploring, relaxing, and an ascent of the 12,279-foot Matterhorn Peak. A seven-day, 40-mile, on-trail traverse. (Rated M) Leader: *Roxann Hanning*. Price: \$345; Dep: \$50. [94202]

**Gems and Trails of Kings Canyon Tales, Sierra—August 21–28.** Few old-timers remember (or divulge) the secrets of the native paths connecting true Sierra gems such as Tehipite, Monarch Divide, or Blue Canyon. Treading lightly, we will walk these ancient paths once more, bringing our stories, thoughts, and laughs to a realm of hidden magic. (Rated M) Leader: *Les Atkins*. Price: \$315; Dep: \$50. [94203]

**Santa Cruz Mountains Family Trip, California—August 22–28.** See page 112 for details. (Rated M) Leader: *Susanne George*. Price: adult \$325; child \$215; Dep: \$50. [94283]

**Mt. Shinn and Southeast, Sierra Forest and Kings Canyon Park, Sierra—August 25–September 3.** After a boat ride across Florence Lake and about one mile of trail, we will make our way cross-country to an unnamed lake high on the south end of the Divide two and a half miles west of Mt. Goddard. From there, after a layover to climb Goddard, we head north to McGee Lakes and trail that will return us to Florence Lake. (Rated M-S) Leader: *Gordon Peterson*. Price: \$390; Dep: \$50. [94204]

**Martha Lake and the Hermit, Kings Canyon Park, Sierra—August 26–September 4.** The northern tip of the Park contains an enchanted combination of lakes, peaks, streams, and rivers. Come touch Mt. Goddard, the Ionian Basin, and Evolution Valley, and relax in Blaney Hot Springs after the mosquitoes have left. Some off-trail travel and two layover days will provide the experienced backpacker unforgettable close-ups. (Rated M) Leader:

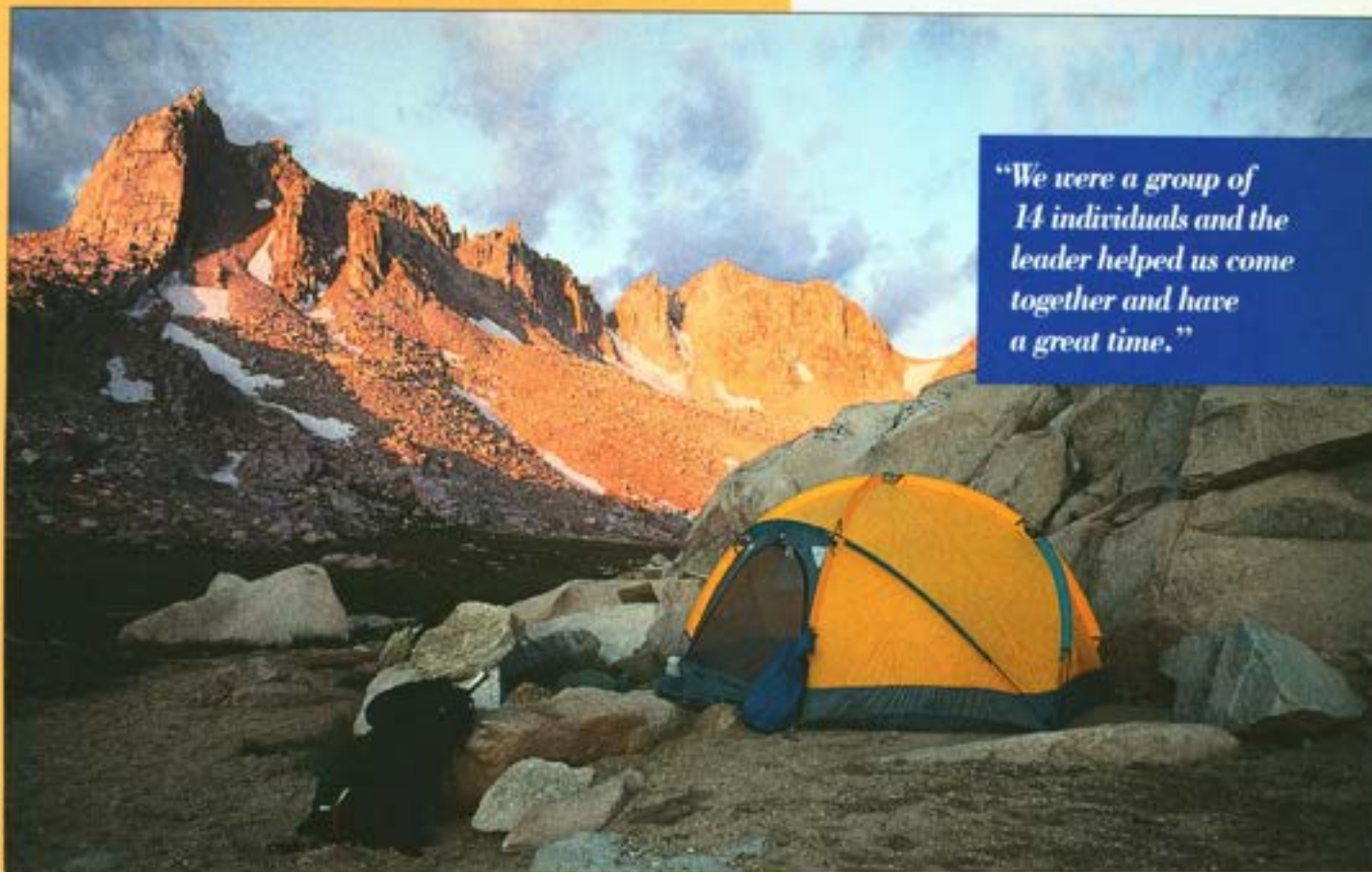


*Barry Bolden*. Price: \$365; Dep: \$50. [94205]

**Sixty Lakes Basin, Kings Canyon Park, Sierra—August 28–September 3.** This trip explores two beautiful basins not on the Muir Trail—Sixty Lakes and Gardner. Much of our route is off-trail. Starting at Cedar Grove, we ascend Paradise Valley, returning via Gardner Pass and Bubbs Creek. On our layover day we can climb Mt.

Cotter. Mules will lighten our first day's load. Late season means best weather and fewest mosquitoes. (Rated M-S) Leader: *Joe Uzarski*. Price: \$340; Dep: \$50. [94206]

**Seven Gables and Countless Lakes, John Muir Wilderness, Sierra—August 28–September 5.** Enjoy late-summer solitude as we lake-hop through the alpine landscape of Humphreys Basin to reach remote Bear



*"We were a group of 14 individuals and the leader helped us come together and have a great time."*

Clockwise from top left: maple leaves; Granite Park Camp, Sierra; Pacific Rim National Park, British Columbia; Big Sur, California.

Lake Basin. The striking profile of Seven Gables enhances magnificent vistas. Our route often departs from established trails, and we frequently camp above 11,000 feet, adding to the challenge. Layover days offer opportunities for exploring, peak-bagging, or fishing. For experienced backpackers. (Rated M) Leader: *Bill Flower*. Price: \$405; Dep: \$50 [94207]

**Yosemite's North Boundary and Hoover Wilderness Sampler, Sierra—August 29–September 2.** Get a taste of the dramatic scenery of the Sierra. Beginning eight miles east of Sonora Pass Summit, we will have a leisurely four moving days and one layover with opportunities to absorb the views, swim, explore creeks, or relax. The route will take us past Fremont Lake and Chain of Lakes, and east along Yosemite's northern border and the Sawtooth Ridge. (Rated L-M)

Leader: *Marlen Mertz*. Price: \$230; Dep: \$50 [94208]

**Hidden Lakes Adventure, Kings Canyon Park, Sierra—August 30–September 9.** A ferry excursion across Florence Lake starts our adventure, which takes us through Goddard Canyon to a layover day in 11,000-foot Ionian Basin. Experienced backpackers will relish the rugged terrain encountered in the three full and two partial days of cross-country with spectacular vistas in isolated basins. Our return descent takes us past Wanda, Davis, and McGee lakes. (Rated M-S) Leader: *Carol Murdock*. Price: \$450; Dep: \$50 [94209]

**Lakes of the Silver Divide, John Muir Wilderness, Sierra—September 1–8.** We'll circumnavigate Red and White Mountain on the Sierra Crest south of Mammoth Lakes. Hiking a total of 35 miles (31 on-



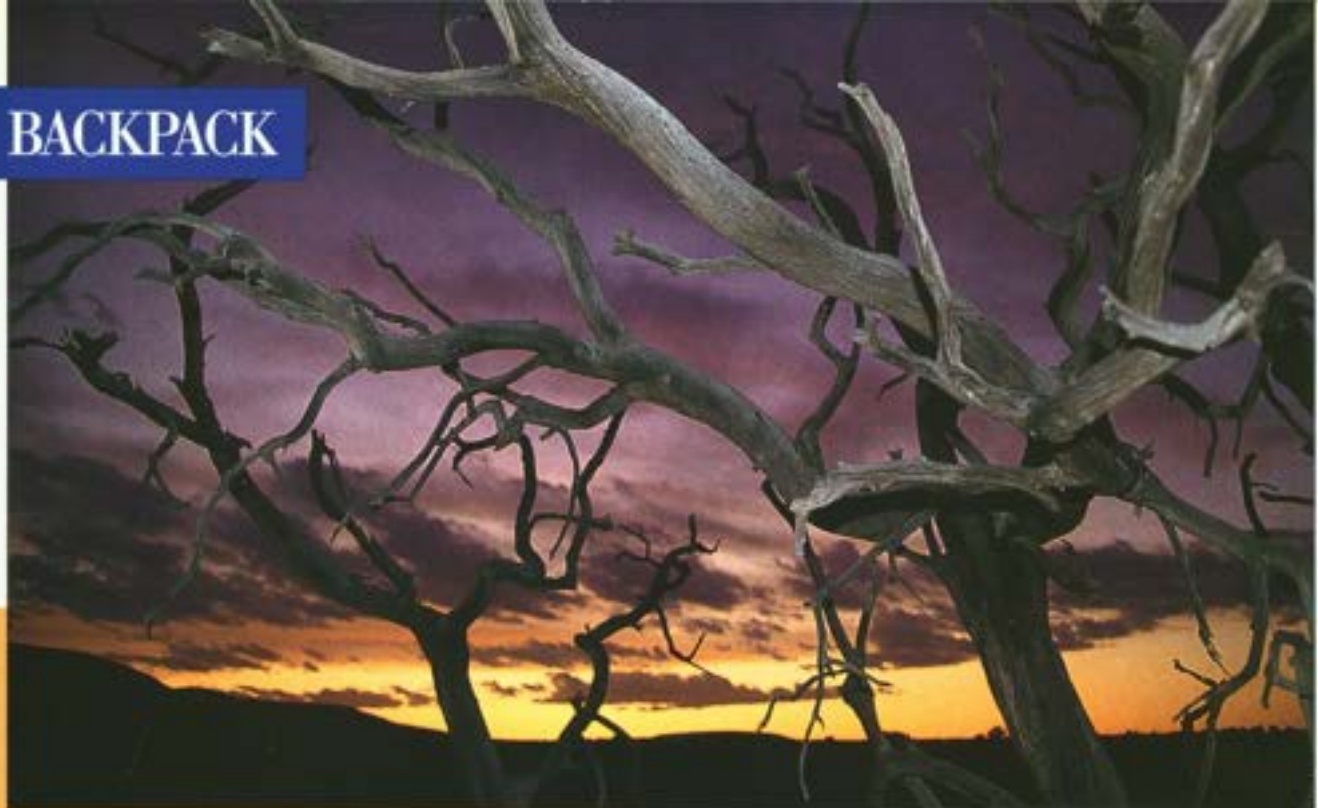
trail), we'll enjoy the colorful valley along McGee Creek, lake-filled Fish Creek Basin, and Grinnell Lake Basin high above Mono Creek Valley. We'll enjoy relatively easy travel at the beginning, two layover days, and opportunities for peak ascents. (Rated M) Leader: *Bill Eng*. Price: \$330; Dep: \$50 [94210]

**Yosemite Solitude, Yosemite Park, Sierra—September 3–10.** Solitude in Yosemite? Yes!

Enjoy the primitive north country of Yosemite with its forests and glacier-carved canyons. Each campsite on this 50-mile-plus adventure is adjacent to a majestic alpine lake. Two layover days allow us to explore nearby canyons and peaks. Daily mileage will range from 5 to 14. (Rated M-S) Leader: *Cahit Kitapoglu*. Price: \$285; Dep: \$50 [94211]

**Monarch Magic, Kings Canyon Park, Sierra—September 4–12.** Join a spectacular odyssey into the Monarch Divide territory of Kings Canyon National Park in the High Sierra. This 38-mile journey, part trail and part cross-country, will thrill the seeker of alpine lakes, magnificent granite, and soul-satisfying vistas. A two-day layover and packer assist will lighten the stress of 10,000-plus-foot altitudes. A peak-bag for the

**Please read the Reservation and Cancellation Policy on pages 142 and 143 before sending in your application.**

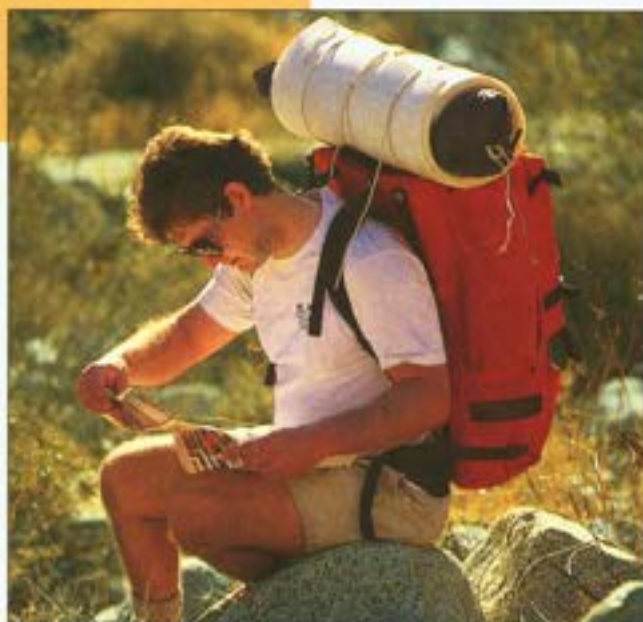


Clockwise from top: juniper tree, Arches National Park, Utah; Grand Teton, Wyoming; Uncompahgre National Forest, Colorado.



willing is an option. (Rated M) Leader: Bill Clark. Price: \$390; Dep: \$50 [94212]

**Fall Color, Lake Superior Pictured Rocks, Michigan's Upper Peninsula—September 11–17.** Enjoy hiking days of five to six miles over relatively flat terrain in one of the Midwest's premier outdoor settings. Mild temperatures and the absence of insects add to the water-wonderland appeal of Michigan's Upper Peninsula at this time of year. Fall colors, the Pictured Rocks cliffs, soft and hardwood forests, Twelve-mile Beach, and



an abandoned lighthouse enhance our hiking itinerary. (Rated L-M) Leader: Jack Thompson. Price: \$385; Dep: \$50 [94213]

**Pecos Wilderness, Sangre de Cristo Range, New Mexico—September 11–17.** In the north-

ern New Mexico high country, we backpack the picturesque Santa Barbara Canyon to Truchas Peak (13,000 feet). We lay over two days at Truchas

**Citico Creek Wilderness, Cherokee Forest, Tennessee—September 17–24.** Enchantingly remote! Citico Creek Wilderness, nestled just south of Great Smoky Mountains National Park, is one of southern Appalachia's most secluded backpacking destinations. Relax by Citico Creek's swirling cascades or bushwhack up old-growth, hemlock-lined coves. Fall breezes will descend as we ascend to elevations of 5,300 feet. Individuals with some backpacking experience encouraged to apply. (Rated M) Leader: Bill Porter. Price: \$340; Dep: \$50. [94215]

**Baxter Beauty, Baxter Park, Maine—September 18–24.** Moose grazing in a small rocky cove; the call of the loon drifting across the water with the mist; a wisp of cloud slipping over Hamlin Ridge; and Mt. Katahdin presiding over all—these are some of the special sights and sounds offered by Baxter State Park. We'll intermix backpacking and dayhikes, overnighting in bunkhouses and shelters, to fully experience the enduring legacy of Percival Baxter. Maximum distance nine miles; maximum climb 3,800 feet. (Rated M-S) Leader: Kenneth S. Limmer. Price: \$485; Dep: \$50 [94216]

Lake for non-technical climbing and a trip to Pecos Baldy Lake and Peaks, home to wild sheep and elk. We return to our trailhead via spectacular Skyline Trail and the East Fork of the Santa Barbara. (Rated M) Leader: Ted Whatley. Price: \$485; Dep: \$50 [94214]

**Rincon Bonito, Pecos Wilderness, New Mexico—September 18–24.** Explore one of New Mexico's most outstanding alpine areas on a 45-mile trek through the heart of the Sangre de Cristo Mountains. As we travel the high country between Taos and Santa Fe, we will search for meadows too remote for weekend travelers. Come enjoy the solitude, the kaleidoscope of fall colors, and the hidden jewels of the Pecos Wilderness. (Rated M-S) *Leaders: Brian and Gretchen Johnson. Price: \$460; Dep: \$50 [94217]*

**Dark Canyon Wilderness, Utah—September 25–October 1.** Starting out from aspen forest at 8,000 feet, we'll descend Woodenshoe-Dark Canyon to the desert, with one layover day on the way. Our discoveries include sidewall springs, waterfalls, aqua pools, colorful cliffs, and fossils. Side canyons beckon exploration. Challenges include two long days, unmaintained trail, and a steep ascent. This trip will delight the geologist, botanist, photographer, and "canyonophile" who's an experienced backpacker. Minimum age 15. (Rated M) *Leader: Steve Moore. Price: \$480; Dep: \$50 [94218]*

**Pemigewasset Wilderness Adventure, White Mountains, New Hampshire—September 25–October 1.** Traverse the Pemigewasset Wilderness and experience splendid views of Mt. Washington and the Presidential Range accented with fall colors. Three of the six nights on trail will be spent in Appalachian Mountain Club huts. We'll cover an average of seven miles per day, with up to 2,500 feet of elevation gain. Also featured: one layover day, optional dayhikes and peak-climbing, discussion of Northern Forest issues. (Rated M-S) *Leader: Lynn Pike. Price: \$650; Dep: \$100 [94219]*

**Escalante Canyon, Glen Canyon Recreation Area, Utah—October 2–8.** A symphony of rock, water, and time, the Escalante is a combination of steep canyon walls and rock tapestries, meandering through one of the least-spoiled wild areas in the nation. The bright green fol-

age of the ever-present cottonwoods and willows are a striking contrast to the water-streaked and varnished redrock cliffs. Expect frequent stream crossings and comfortable fall temperatures. (Rated M-S) *Leader: Blaine LeCheminant. Price: \$500; Dep: \$100 [94220]*

**Fall Color Peak Adventure, Nantahala Forest, North Carolina—October 2–8.** Experience the southern Appalachians at their best. Timed to catch fall colors, trip participants can expect mild days and crisp nights as we cross peaks with superb vistas and enjoy one of the largest eastern wilderness areas. Cherokee names and legends will echo along the trail as we walk where they once lived. Join us! (Rated M-S) *Leader: Lee Thomas. Price: \$325; Dep: \$50 [94221]*

**Mauna Loa Volcano Backpack—October 2–14.** See page 113 for details. (Rated S) *Leader: Duane Ottens. Price: \$1,125; Dep: \$100 [94289]*

**Rainbow Plateau, Utah and Arizona—October 14–21.** Lying west of Navajo Mountain on the southern shore of Lake Powell, the Rainbow Plateau is sandstone-dome country laced with slot canyons and separated by high mesas. Our trip, which begins and ends by boat, will visit Forbidding Canyon, Aztec Creek, Redbud Pass, and Rainbow Bridge. This trek through the Navajo slickrock will consist principally of cross-country hiking and is suitable for experienced backpackers. (Rated M-S) *Leader: Jim De Vény. Price: \$540; Dep: \$100 [94222]*

**The Maze District, Utah—October 15–23.** Our group of dedicated and experienced canyon backpackers will explore the Maze District of Canyonlands National Park. We will likely hike in Horse, Jasper, Shot, and Water canyons. (Rated S) *Leader: Bert Fingerhut. Price: \$520; Dep: \$100 [94223]*

**Note: See Alaska, Family, Hawaii, International, and Service for other backpacking trips.**

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### PHOTOS WANTED

The Outing Department thanks the photographers who submitted their work for this project. High-quality photos (color slides only) are needed throughout the year for outings publications. For submission guidelines and deadline information, send a self-addressed stamped envelope to:

Naomi Williams, Publicity Coordinator  
Sierra Club Outing Department, 730 Polk St., San Francisco, CA 94109

The deadline for the 1995 catalog is October 3, 1994.

# BASE CAMP



**B**ASE 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 with children 12 or older, and for people who want time to explore the wilderness at a leisurely pace.

**Lees Ferry Exploration, Grand Canyon Area, Arizona—April 2–9.** Lees Ferry, known primarily as the “put-in” for Grand Canyon river trips, also offers dramatic geologic formations such as Marble Canyon and the Vermilion Cliffs, as well as the history of Spanish exploration, Mormon settlements, and early river runners. We will do moderate to strenuous dayhikes of Colorado River side canyons and other areas, following in the steps of the Stanton Expedition and the early pioneers. Leaders: Shelley and David Mowry. Price: \$390; Dep: \$50. [94051]

**East Mojave Scenic Area, California—April 17–22.** We'll explore the panoramas, sand dunes, and cinder cones of the proposed Mojave National Park, 100 miles southwest of Las Vegas. From our 5,600-foot camp we'll carpool daily to the

trailheads. Hikes vary from easy to moderately strenuous; the toughest day is six miles with a 1,000-foot gain. Our pace is modest as we stop for flowers, wildlife, and talks on history and archaeology. Leader: Rose Cerini. Price: \$325; Dep: \$50. [94052]

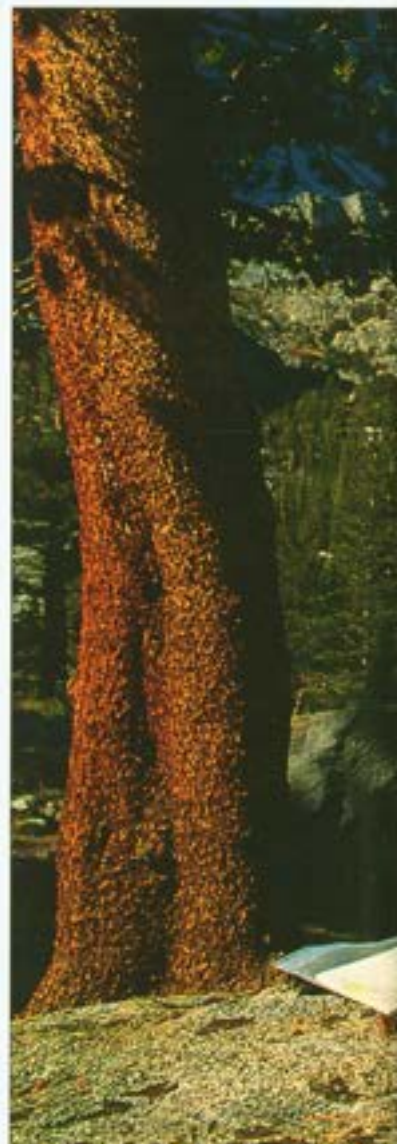
**Naturalist's Puerto Rico—April 18–24.** Explore the unspoiled island of Culebra, snorkeling and swimming pristine beaches and assisting with Fish and Wildlife Service surveys of nesting sea turtles. Hike the trails of El Yunque, the Forest Service's only tropical rainforest, a land of giant ferns, waterfalls, and exotic vegetation. Accommodations include a villa in Culebra and a historic hotel. Meals not included in trip price. Leader: Marjorie Richman. Price: \$800; Dep: \$100. [94053]

**Cathedral Valley, Slot Canyons, and the Waterpocket Fold, Capitol Reef Park, Utah—April 24–30.** Southern Utah offers some of the country's most fascinating rock formations, and Capitol Reef the best of the best—diverse and colorful pinnacles, spires, canyons, and arches. Using three base camps, we'll explore three very different areas—Chimney Rock Canyon, Cathedral Valley, and Upper Muley Twist on the Waterpocket. Intermediate hiking ability and great sense of adventure required. Leader: Brian Vandegriff. Price: \$485; Dep: \$50. [94054]

**Spring in the Great Smoky Mountains, Tennessee—May 8–14.** Here's what to expect: cool mountain trails and high meadows, lush with wildflowers... a comfortable campground in historic Cades Cove... flexible dayhikes, some strenuous... option to ride a horse or bicycle... deer, black bear, otter, red fox, baby skunks... Abrams Waterfall, Alum Cave Trail to Mt. LeConte, Gregory Bald, Spence Field and the Appalachian Trail... and, of course, great food! Leader: Betty Zucker. Price: \$380; Dep: \$50. [94055]

**The Highs and Lows of Southeastern Utah—May 15–21.** Explore Arches and Canyonlands national parks as well as spectacular and seldom-traveled trails on BLM lands. From our base camp just north of Moab, along the meandering and gentle Colorado River, we will carpool to trailheads for six- to ten-mile dayhikes. More wildflowers and stars than you can imagine, together with sumptuous meals, will complete this exhilarating wilderness experience. Leaders: Sarah Bofes and Jeffrey Black. Price: \$430; Dep: \$50. [94225]

**Laurel Fork Wilderness, Monongahela Forest, West Virginia—June 12–18.** A grass clearing will serve as a base from which we will dayhike little-used trails. We will also hike and explore Seneca Rocks, Gaudineer Scenic Area, and Spruce Knob, West Virginia's highest mountain. Hikes will pass through isolated stream valleys and heavily wooded ridges with azalea, rhododendron, and beaver ponds. Leader: Bill DeLoache. Price: \$330; Dep: \$50. [94226]



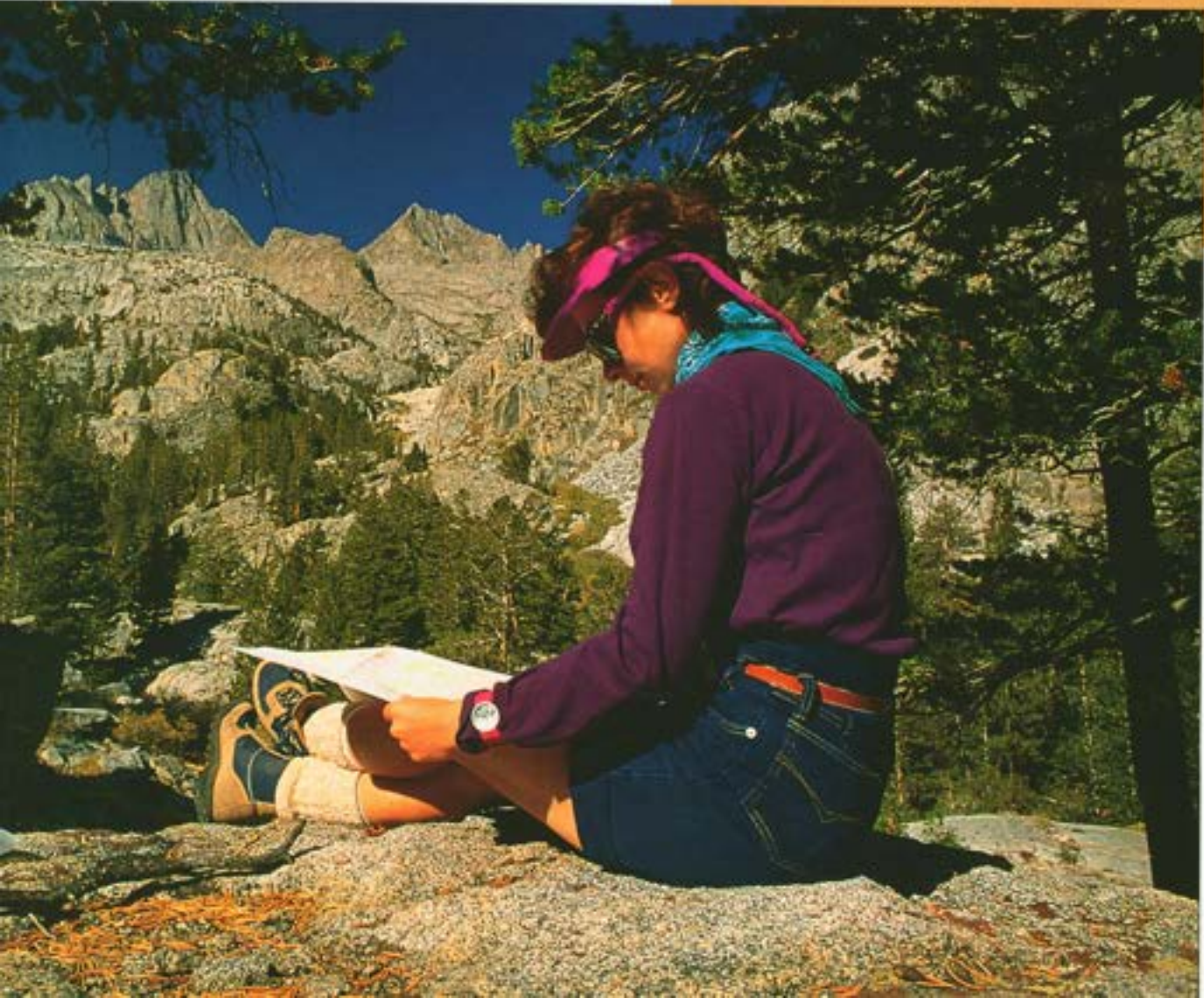


**Mono Lake Basin, Sierra—  
June 12–18.** As summer begins  
in the Sierra, we'll explore photo-  
genic and threatened Mono  
Lake and its surroundings by  
car and on foot. Highlights  
include the lake itself, cinder  
and obsidian cones, and a  
ghost town; hikes will take us up  
one of the Sierra river canyons  
and to the Tioga Pass area.  
We'll camp on a secluded  
national-forest stream at the  
base of the mountains. *Leader:*  
*Emily Strauss. Price: \$345. Dep:*  
*\$50. [94227]*

**Underwater Wilder-  
ness: Beneath the  
Caribbean, Virgin  
Islands Park, St. John,  
U.S. Virgin Islands—  
June 13–19.** Daily snorkel-  
ing excursions high-  
light our June break to  
Virgin Islands National  
Park. Beneath the  
turquoise waters, we'll  
observe a vivid marine  
environment protected by the  
park's boundaries. Snorkeling in-  
struction and information on fish  
identification and behavior are



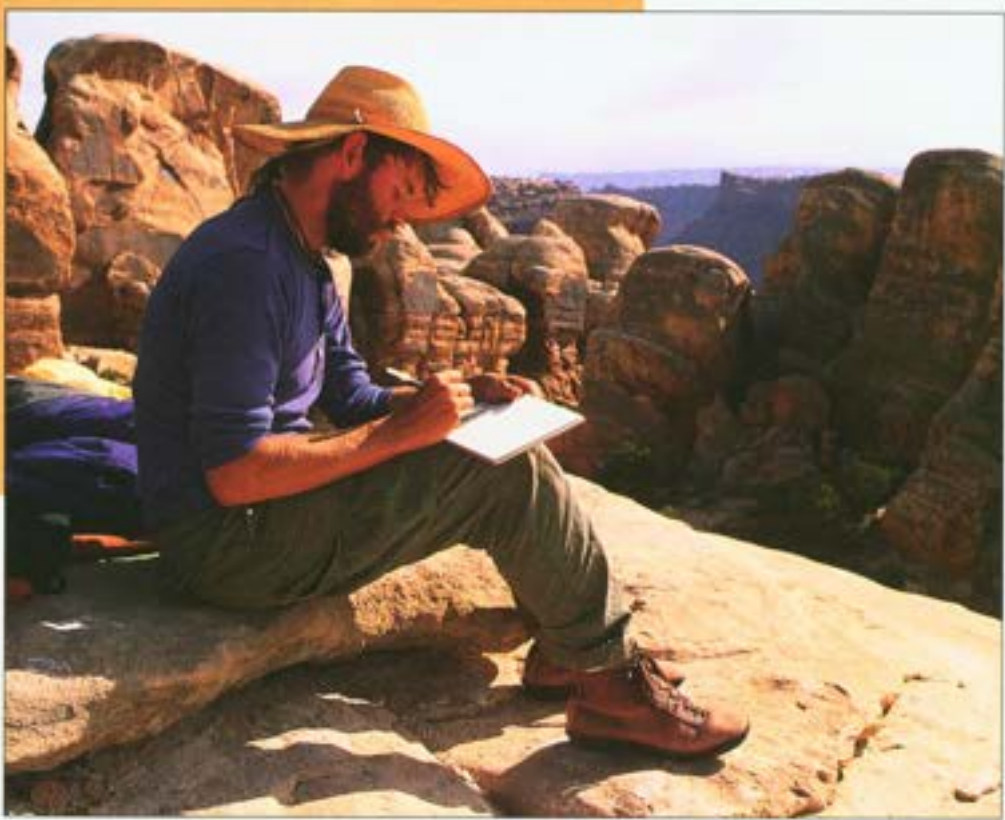
Clockwise from top: Granite,  
Yosemite Valley; Tweedsmuir,  
British Columbia; raccoon;  
The Palisades, Sierra.



## BASE CAMP

available to all participants. Accommodations are the environmentally friendly tent cottages at Maho Bay. Meals not included in trip price. *Leader: Kendal Tipper. Price: \$760; Dep: \$100. [94228]*

**Midnight Lake, John Muir Wilderness, Sierra—July 9–16.** Located just below timberline at



Above, Sequoia National Park, Sierra; top right, Sequoia National Park, Sierra; lower left, Doll House, Canyonlands National Park, Utah.

about 10,400 feet, our camp near Midnight Lake gives us access to alpine vistas of small glaciers, rockbound lakes, and several peaks over 13,000 feet. Swimming, fishing, leisurely-to-

**Give the gift of wilderness with a Sierra Club Outings gift certificate. See page 89.**



SUE LAVIGNE/REUTERS/ALAMY

shore will provide opportunities to enjoy magnificent Lake Michigan vistas, relax on secluded beaches, and explore the island for relics from a once thriving rural community. A lighthouse, abandoned homesteads, and dune life will intrigue photographers. Operating from two base camps, this is a leisure trip. *Leader: Sue LaVigne. Price: \$390. Dep: \$50. [94231]*

**Newberry Volcanic Monument, Central Oregon—July 31–August 7.** From our lake-side camp in a huge volcanic caldera at 6,300 feet, we daytrip in vans to explore Newberry National Volcanic Monument and the nearby Deschutes River and Cascade Mountains area. We'll also visit the High Desert Museum, tour the Cascade Lakes Scenic Byway, ride a chairlift to the 9,000-foot summit of Mt. Bachelor, and dayhike into the Three Sisters Wilderness. Expect moderately strenuous hiking. *Leader: Bob Tull. Price: \$550. Dep: \$100. [94232]*

**Stehekin Valley at Your Own Pace, North Cascades, Washington—August 21–27.** Slow down, smell the flowers, and enjoy the "enchanted valley."

Our rustic cabins, reached by a 50-mile boat ride up Lake Chelan, are nestled in a glacial valley ringed by lofty snow-capped mountains. This trip is for outdoor lovers who, by virtue of ability or inclination, are not interested in strenuous activity. Easy-to-moderate hikes with emphasis on photography, natural history, relaxation, and renewal will be offered. Suitable for people with limited mobility. *Leader: Carolyn Castelman. Price: \$895. Dep: \$100. [94233]*

**Emigrant Wilderness, Sierra—August 27–September 4.** Our base camp is in the Emigrant Wilderness, the best-kept secret of the Sierra, located northwest of Yosemite National Park. This less-frequented area is noted for its glacier-scoured granite scattered with inviting lakes and high peaks. So many of these surround our camp that we'll have difficulty deciding each day which one to visit. This trip is a photographer's and fisher's paradise. *Leaders: Diana and Modesto Piazza. Price: \$785. Dep: \$100. [94234]*

**Trails of Canyon de Chelly, Arizona—October 9–15.** The Anasazi had nearly one hun-

dred routes out of Canyon de Chelly and its side canyons. Our Navajo guide will take us on several of the surviving trails that feature impressive rock-art displays. We also will learn Navajo history and culture during our week-long exploration of this unique national monument. Children welcome. *Leader: Bob Hartman. Price: \$640. Dep: \$100. [94235]*

**Virginia's Rooftop, Mt. Rogers Recreation Area—October 16–22.** 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 colorful autumn foliage, wild ponies, panoramic vistas from mountain balds, and hikes over Whitetop Mountain and Mt. Rogers. *Leader: Marjorie Richman. Price: \$350. Dep: \$50. [94236]*

**Note: See Alaska, Bicycle, Clair Tappaan Lodge, Family, Hawaii, International, Service, Ski, and Water for other base-camp trips.**

strenuous dayhikes, wildflower discoveries, or just relaxing in camp will be our daily routine. Any person in good physical condition is welcome. *Leader: Ernie Jackson. Price: \$630. Dep: \$100. [94229]*

**Vandenburg Lake, Sierra Forest, Ansel Adams Wilderness, Sierra—July 23–30.** Just south of Yosemite and located within the Ansel Adams Wilderness, our base camp is near numerous lakes and provides a special beauty all its own. Each day you can choose to swim, fish, explore the area, peak-climb, or just plain relax. A perfect place to get away from everyday trials and tribulations. Don't forget to bring your camera! *Leader: Sy Gelman. Price: \$590. Dep: \$100. [94230]*

**Sleeping Bear Dunes Park, Lake Michigan Odyssey—July 31–August 6.** Leisure dayhiking on abandoned South Manitou Island and along the Sleeping Bear Dunes Lake-

## T H E S I E R R A N E V A D A



From daunting Half Dome to tranquil meadows, thundering Yosemite Falls to serene Lake Tahoe, the majesty of giant sequoias to the poignant beauty of spring wildflowers—these are the natural splendors of the Sierra Nevada, North America's longest unbroken chain of mountains. This ecoregion offers not only breathtaking scenery and myriad recreational opportunities,

but a watershed that produces 60 percent of California's water, and habitat for hundreds of plant and animal species. The area John Muir called the "Range of Light" is under increasing pressure, however, from overcrowding, uncontrolled residential and commercial development, the proliferation of dams on its rivers, and logging and mining operations.

Many of these threats can be turned back if we provide permanent protection for the lands and wildlife in key areas, develop county plans that curb the impact of development, establish Giant Sequoia National Monument, implement a master plan to protect Yosemite National Park from overcrowding and commercialism, enact strict air quality programs, and preserve the Sierra's last free-flowing rivers through federal Wild and Scenic River legislation.

Sierra Club activists are already hard at work, and need your support. You can experience the grandeur of the Sierra and gain a greater appreciation for the issues on a Sierra Club Outing. See the Backpack, Base Camp, Burro, Clair Tappaan Lodge, Family, Highlight, Service, and Ski sections for details on outings to this area.

# CLAIR TAPP



**C**LAIR TAPPAAN LODGE is situated on a wooded hillside in Tahoe National Forest, two miles west of Donner Pass, an environmentally threatened area rich in history. The Lodge was built in 1934 by Sierra Club pioneers as a ski lodge.

Today it is home to a wide spectrum of outdoor programs, offering opportunities that range from hiking on gentle trails, ambling up peaks, studying local flora and watching birds, and capturing the landscape with a paintbrush, to immersing oneself in emigrant and railroad history—or a nearby lake. The scenery is awe-inspiring, the Lodge rustic, the meals hearty, and the plumbing indoors.

There are activities galore on every one of the outstanding programs described below, but you are free to sneak off for a nap on our deck or a soak in our hot tub. For the young at heart, the Lodge is the perfect place to be—not too far from civilization, but out of this world.

**High Sierra Skiing I—January 30–February 4.** See page 132 for details. *Leader: Herb Holden.* Price: \$390; Dep: \$50. [94424]

**High Sierra Skiing II—February 27–March 4.** See page 132 for details. *Leader: Herb Holden.* Price: \$390; Dep: \$50. [94427]

**Spring Skiing in the Sierra—April 17–22.** See page 132 for details. *Leader: Herb Holden.* Price: \$390; Dep: \$50. [94428]

**Strictly for the Birds, Tahoe Forest, Sierra—June 5–11.** Novice or expert birding enthusiasts will enjoy daily field trips with a professional ornithologist. Evenings will be for sharing experiences, pictures, and discoveries. From the Lodge we carpool and hike to a variety of

nesting habitats: alpine meadows and forests, high-desert chaparral, snow-melt creeks, beaver ponds, flyway marshes. We'll also observe mist netting and banding of migrating birds. *Leader: Bob Tull.* Price: \$455; Dep: \$50. [94237]

**Sierra Spring into Nature, Tahoe Forest, Sierra—June 12–18.** Come see spring arrive in the High Sierra. With our own master naturalist Tim Messick in tow, we'll gain a greater appreciation of the natural world around us, while studying the flora, fauna, and geology of the area. A visit to some fascinating historic spots as well as fun-filled evening activities are also planned. Join us on this special nature-study program. *Leader: Sy Gelman.* Price: \$475; Dep: \$50. [94238]

**High Sierra Serenity, Six Hikes and Twelve Steps, Tahoe Forest, Sierra—June 19–25.** Enjoy the natural high of early Sierra summer as we hike, fish, explore, and appreciate the scenic and historical Donner Pass area. Our rustic hideaway is perfect for fellowship and

mobility who are able to climb stairs. *Leader: Kay Hornsey.* Price: \$535; Dep: \$100. [94240]

**Hiking to Paradise, Tahoe Forest, Sierra—July 24–30.** Join us on five history-oriented hikes of four to 12 miles each to



serenity. Provisions for optional 12-Step Program meetings will be a special addition to this unique outing. *Leaders: Barbara and Tim Poole.* Price: \$395; Dep: \$50. [94239]

**Donner Pass Discovery Family Trip, Tahoe Forest, Sierra—June 25–July 1.** See page 109 for details. *Leader: Sharon McEwan.* Price: adult \$380, child \$255; Dep: \$50. [94270]

**Sierra Strolls, Tahoe Forest, Sierra—July 17–23.** Sample the Sierra on our short, leisurely walks along easy trails. We'll stroll by mountain lakes, creeks, beaver dams, and meadows of wildflowers. We'll visit the Donner Party winter sites, the top of Squaw Peak (by tram), and beautiful Lake Tahoe. This trip is suitable for people with limited

Paradise Lake and other remote areas around Donner Pass and the Pacific Crest Trail. In the evenings we'll gather for lectures, discussions, and a videotape that will further acquaint us with the area. The hikes are ideal for those who like to day-hike but prefer to sleep on bunk beds and have hot showers at the end of the day. *Leader: Serge Puchert.* Price: \$385; Dep: \$50. [94241]

**History and Hiking, Donner Pass, Tahoe Forest, Sierra—July 31–August 6.** Donner Pass is a fascinating historic area—from the ill-fated Donner Party to the Transcontinental Railroad. If you like your history in short, interesting doses, come learn how the emigrants conquered the imposing Sierra Nevada. Dayhike to historic and

# AAN

AMY HIGGINS/OLYMPIA IMAGES

scenic sites or sunbathe on the deck. Hikes range from three to seven miles, with elevations between 7,000 and 9,100 feet. This trip is suitable for anyone in good health and able to hike up a fairly steep trail. *Leader: Ernie Jackson. Price: \$415. Dep: \$50. [94242]*

**Family Service Trip, Tahoe Forest, Sierra—August 7–13.** See page 111 for details. *Leaders: Elaine and Timothy Stebler. Price: adult \$210, child \$140. Dep: \$50. [94280]*



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**Sierra—August 21–27.** Enjoy the magic of the Donner Pass area on foot and of Lake Tahoe by car. Join us for a week of the three Rs—rest, recreation, and recovery. Choose a pace that suits you: invigorating hikes, relaxation at the Lodge, or something in between. There will be many scheduled activities, including daily optional 12-Step meetings. *Leaders: Helene Redmond and Adele Lins. Price: \$395. Dep: \$50. [94244]*

**Just for Grandparents and Grandchildren, Tahoe Forest, Sierra—August 28–September 2.** See page 112 for details.

Clockwise from top: Pine trees; Eastern Sierra; snow plant; Yosemite; Clair Tappaan Lodge.

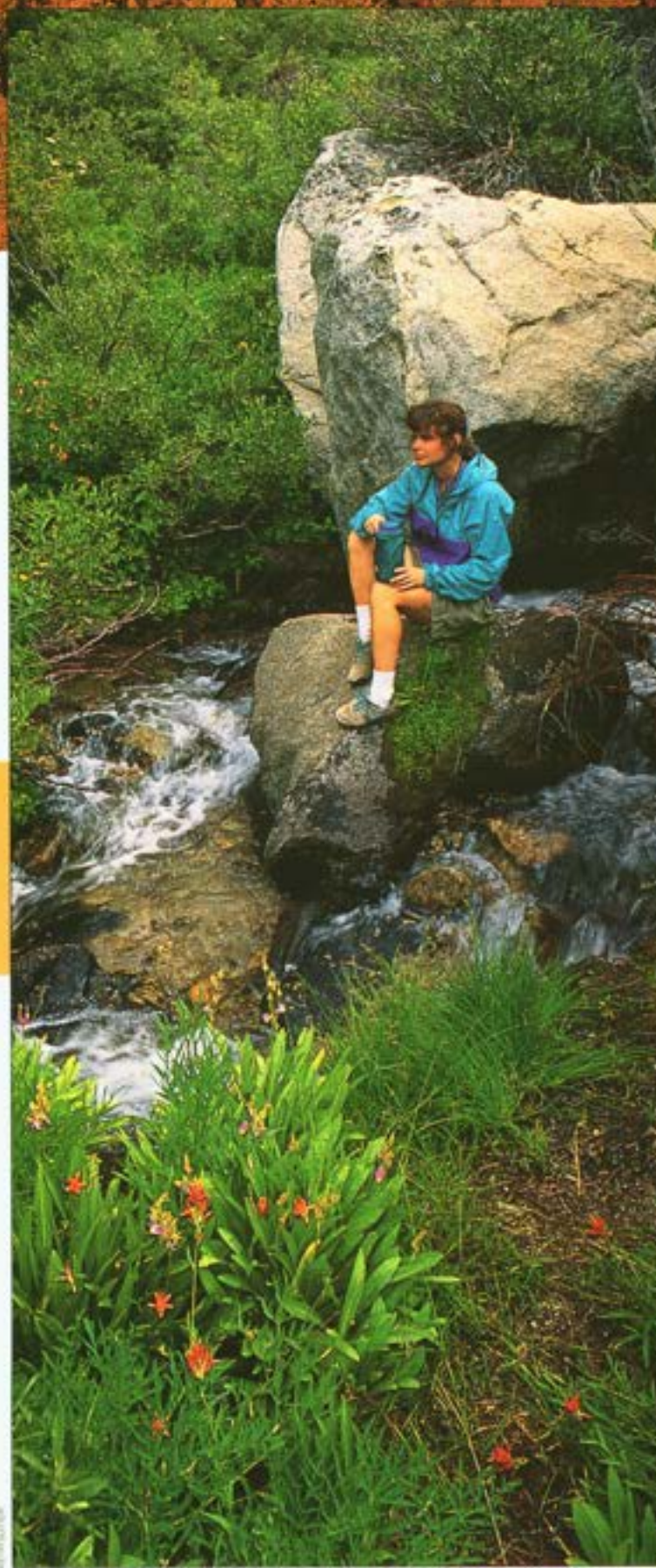
*Leader: Grandpa Jim Maas. Price: adult \$310, child \$210. Dep: \$50. [94284]*

**Nature Writing Workshop, Tahoe Forest, Sierra—September 11–17.** Wallace Stegner called those who write about nature and the environment "witnesses." If you'd like to hone your skills as one of nature's witnesses, join us in the second annual nature writing workshop led by award-winning writer David Rains Wallace. Daily hikes near Donner and other emigrant passes will provide fodder for afternoon writing and evening reading and discussion. *Leader: Susan Heitman. Price: \$520; Dep: \$100 [94245]*

**Note: See the listing under "Lodge" on page 76 for other lodge-based trips.**

**Landscape Art and Leisure Hiking, Tahoe Forest, Sierra—August 14–20.** Delightful dilemmas: Hike the Pacific Crest Trail, or capture a view from the trail in your sketch book? Swim in a lake, or interpret it in watercolors with help from our art instructor? Try pastels? Stroll over Emigrant Pass, or watch birds in a meadow? But what about that nap on the deck? Not to worry—do 'em all! *Leaders: Helen and Jim Maas. Price: \$435. Dep: \$50. [94243]*

**Sierra Serenity: Hike Outside, Grow Inside! Tahoe Forest,**



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# BICYCLE

LISA FREYER



**O**N 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 riding. Rides range from easy to difficult, depending on the trip.

Most trips are sag wagon-supported so participants carry only day gear with them; others operate from a base camp. Participants share in camp chores and may also share 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.

**Virginia's Skyline Drive and Blue Ridge Parkway—May 22–28.** See some of the East Coast's most scenic mountain landscape along one of the finest bike routes in the country. On this 210-mile, sag wagon-supported trip, we'll average 30 to 40 miles between campsites and lay over one day in Shenandoah National Park. There's ample time to enjoy sightseeing, hikes to waterfalls and overlooks, relaxing, and the good food we're planning! *Leader: Ken Singletary. Price: \$325; Dep: \$50 [94056]*

**Big Island Bicycle Tour, Hawaii—June 18–30.** See page 113 for details. *Leader: Thelma Rubin. Price: \$1,390; Dep: \$200 [94286]*

**Tyrolean Summer Dream, Hiking and Biking in Austria—June 18–July 2.** See page 121 for details. *Leader: Dan Noble*

*Price: \$2,575 (12-15) / \$2,850 (11 or fewer); Dep: \$200 [94590]*

**Finger Lakes Loop, New York—June 19–25.** From gorges, glens, and gardens to waterfalls and wineries we cycle with minimal gear along the shores of lakes Cayuga, Seneca, Keuka, and Canandaigua. Daily distances vary but average 40 miles; expect some hills and valleys. We overnight at attractive campgrounds near lakes and streams. Good physical condition, reliable equipment, and road experience are required. Sag wagon driving is shared. *Leaders: Phil Titus and Margaret O'Neil. Price: \$355; Dep: \$50 [94250]*

**North Oregon Coast Tour—July 24–30.** Experience the beauty and history of the Oregon Coast on this 230-mile ride from Astoria to Florence. We will

follow Route 101, visiting scenic waysides, beaches, museums, lighthouses, and historic forts. Camping in comfortable Oregon state parks with sag wagon support, you'll be able to sample the local character of the charming towns and villages between scenic highlights. *Leader: J. Lynne Brown. Price: \$455; Dep: \$50 [94251]*

**Mountain Biking the Alaskan Wilderness—July 28–August 10.** See page 81 for details. *Leader: Gregg Williams. Price: \$1,295; Dep: \$200 [94120]*

**Mountain Biking in New York's Adirondacks—July 31–August 5.** Six-million-acre Adirondack Park offers a diverse mix of mountains, rivers, lakes, wilderness rainforests, and pathways. Biking mostly on backwoods jeep roads and snowmobile trails, we'll explore

**Explore Acadia and Mt. Desert Island, Maine—August 28–September 3.** Mt. Desert Island and its Acadia National Park have everything a visitor expects from coastal New England. From our base camp, we'll cycle 20 to 35 miles a day past cobble beaches, tidepools



LISA FREYER



LISA FREYER

and make new use of old routes. Ride 15 to 25 miles a day. Sag wagon, tenting, cabins, swimming and photography. Challenging but appropriate for all levels. *Leader: John Borel. Price: \$500; Dep: \$100 [94252]*

cliffs, and lighthouses, through spruce forest and fishing villages, and up to granite summits. We'll also ferry to outlying Baker Island for a day with an Acadia naturalist. *Leader: Craig Caldwell. Price: \$510; Dep: \$100 [94253]*



*"I had a wonderful, relaxing, revitalizing time. The leader's knowledge about the wildflowers, wilderness environmental issues, and stars really added to the experience."*

Top: shell fossils; left to right: Niuli Beach, Hawaii; daffodils and fence, Massachusetts; Mt. Hood, Oregon.

**Cape Cod and Martha's Vineyard, Massachusetts—September 11–17.** Fall is New England's colorful, quiet season! Cycle along country roads through pine groves and historic fishing villages, beside marshes and kettle ponds, to reach the Cape Cod National Seashore. In Provincetown we'll hike the Province Lands or take an optional whale-watch excursion. Finally, we'll take a ferry out to Martha's Vineyard for two days of island cycling. Mileage between campgrounds will average 30 per day. This trip is sag wagon-supported. Leaders: Gretchen MacKenzie and Dick Gritman. Price: \$515; Dep: \$100. [94254]

## G R E A T N O R T H E R N F O R E S T



The Great Northern Forest, stretching up from New York's Adirondacks through the New England forests, is not just about trees. The 26 million acres of this ecoregion is also home to bogs, wetlands, lakes, and streams; threatened

species like the pine marten, Canada lynx, and common loon; and to summer cottages, farms, and villages. The region has inspired great American art and literature, and continues to delight outdoor lovers with its recreational offerings.

The biological integrity of this ecosystem is threatened, however, by runaway real estate development, unsustainable logging, and air and water pollution (much of the latter caused by antiquated technologies and equipment in the area's paper mills). Sierra Club activists are working to preserve this national treasure by seeking increased levels of federal support for land acquisition, the creation of a new public lands unit in Maine, enactment of model forest-practice laws throughout the region, and Wild and Scenic River designation for critical New England waterways.

Your support is needed to meet these enormous challenges. Become acquainted with the region on a Sierra Club Outing—see Backpack, Bicycle, Family, Service, and Water for trips to the Great Northern Forest Ecoregion.

# BURRO



**T**AKE 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 pitches in on 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. Note the trips below that are specifically geared toward families.

Most routes are at high elevations (8,000 to 12,000 feet), and cover distances from five to ten miles a day. All trips should be considered moderately strenuous, and participants must be in good physical condition.



**The Recesses of Pioneer Basin Family Trip, John Muir Wilderness, Sierra—July 10–17.** Between Silver Divide and Mono Divide lies the Mono Creek drainage whose numer-

ous side canyons are known as The Recesses. This moderate trip, perfect for families with children age seven and up, will explore these lovely valleys. Our amiable burros will carry the

gear between campsites. Day-hiking, fishing, and loafing are yours to enjoy on layover days. **Leader:** Ted Bradford. **Price:** adult \$600, Dep: \$100; child \$400, Dep: \$50. [94260]

**Artist's Palette: Red and White Mountain, John Muir Wilderness, Sierra—July 17–24.** Led by a landscape artist, this moderate trip emphasizes sketching, painting, and photography. We head east from Lake Thomas Edison into the Silver Divide country, a spectacular alpine region of diverse geology. This colorful, sculpted terrain is a landscape artist's dream. Non-artists are welcome to come and enjoy the scenery, fishing, and hiking. **Leader:** Marshall Hasbrouck. **Price:** \$625, Dep: \$100. [94261]

**Top:** mound cactus, Canyonlands National Park, Utah; **left, John Muir Wilderness, Sierra.**

**Silver Divide and Lake of the Lone Indian, John Muir Wilderness, Sierra—July 24–31.** One of the gems of the Sierra, Silver Pass is on our looping itinerary over the Silver Divide. Beginning in dense forest, the trip passes into the alpine zone and a subalpine cluster of beautiful lakes: Lake of the Lone Indian, Warmot, Papoose, and Chief lakes. A moderate trip suitable for anyone interested in scenery and in having burros help them out. **Leader:** Gretchen Hayes. **Price:** \$625, Dep: \$100. [94262]

**Seven Gables Country, John Muir Wilderness, Sierra—July 31–August 7.** A moderately difficult trip through both forest and a dramatic, high alpine area,

this burro trek brings us face-to-face with glacial cirques, paternoster lakes, and alpine flowers. An excellent trail weaves through rugged territory offering dramatic and aptly named mountains—Turret Peak, Gemini, and the Pinnacles. **Leader:** Rich Hamstra. **Price:** \$625, Dep: \$100. [94263]

**Sierran Splendor: The High Country, John Muir Wilderness, Sierra—August 7–14.** Traveling in the opposite direction, but the same route as the "Seven Gables Country" trip, we gradually ascend Bear Creek into the high alpine zone of lakes and dramatic peaks. Join us and the burros on this moderate trip as we rise above the dense forests into the granitic High Country, stopping along the way at Rose, Heart, and Sally Keyes lakes. Adventurers may want to climb Mt. Senger (12,271 feet) on one of the layover days or fish the abundant lakes and streams. **Leaders:** Rick Walton-Smith and Robin Spencer. **Price:** \$625, Dep: \$100. [94264]

**Goddard Divide and Muir Pass Family Trip, Kings Canyon Park, Sierra—August 14–26.** This is your invitation to two magnificent weeks of adventure traversing the best alpine scenery of Kings Canyon National Park and the John Muir Wilderness. Going west to east, we will cross the Sierra Nevada by way of Evolution Valley, Goddard Divide, Muir Pass, LeConte Canyon, Dusy Basin, and Bishop Pass. Moderate hiking at elevations to 12,000 feet among towering peaks and glaciated valleys makes this trip an excellent choice for families seeking spectacular mountains. **Leader:** Anne Parker. **Price:** adult \$945, child \$565, Dep: \$100. [94265]



# FAMILY

**I**NTRODUCE YOUR FAMILY to the joys of the outdoors on a Sierra Club family trip. We create a cooperative atmosphere that allows children to experience the fun of outdoor living with other children. The surrounding wilderness offers many enjoyable opportunities—nature study, hiking, swimming, fishing. We welcome single parents, grandparents, or aunts and uncles, in addition to two-parent families. 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 minimize wilderness impact.

On some trips we drive to our campsite and take daily hikes; on others pack animals transport food, dunnage, and equipment from trailhead 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 family trip deposits are per person, not per family. Children 12 years of age and older are required to have their own Sierra Club memberships. Child prices apply to participants age 16 and under.

family. From our base camp at Stephen Foster State Park, we'll canoe through cypress forests and lily-pad ponds, hike on raised platform trails, and visit abandoned settlements and historical sites. We may even catch a glimpse of the rare cottontail alligator. Suitable for families with some canoe experience and kids six and older. Canoe rental not included in trip price. *Leader: Marty Joyce. Price: adult \$320, child \$215; Dep: \$50. [94057]*

**Preschooler Adventure, Arches and Canyonlands Parks, Utah—April 10–16.**

Short, easy hikes make these parks ideal for families with budding hikers and parents with child-carry packs. Dayhikes allow us to explore the Win-

Far left, Stehekin, North Cascades, Washington; near left, baby bobcat.



**Big Island Family Adventure, Hawaii—March 26–April 2.**

See page 113 for details. *Leaders: Irma and Wayne Martin. Price: adult \$815, child \$545, Dep: \$100. [94061]*

**Okefenokee Wildlife Refuge, Georgia—March 27–April 1.**

Explore the nation's largest freshwater swamp with your

dows, Fiery Furnace, Devil's and Delicate arches in Arches Park, plus the Needles District of Canyonlands Park. Other highlights include evening ranger presentations and a layover day to explore on your own. *Leaders: Margaret and Vern Clevenger. Price: adult \$360, child \$240; Dep: \$50. [94058]*

**Donner Pass Discovery, Tahoe Forest, Sierra—June 25–July 1.**

Rugged granite peaks, alpine forests, and historic Donner Pass create the ideal setting for a family vacation. We'll stay at the Club's rustic mountain lodge (see page

**NOTE: Family trip deposits are per participant, not per family.**

## FAMILY

104), with its relaxing atmosphere and easy access to hiking trails, lakes, streams, and cultural features. Our dayhikes will be easy to moderate, suitable for families with children five years and older. *Leader: Sharon McEwan. Price: adult \$380, child \$255; Dep: \$50. [94270]*

**Stehekin Valley, North Cascades, Washington—July 4–10.** Celebrate Independence Day in a glacier-carved valley isolated by the surrounding alpine heights of the Cascades. Fifty miles by ferry up deep Lake Chelan leads to our base camp of rustic cabins at Courtney Ranch, where family-style meals are superb. Daily hikes on well-marked trails vary from easy to strenuous, suitable for children six and older. *Leaders: Anne and Barry Hainer. Price: adult \$750, Dep: \$100; child \$495, Dep: \$50. [94271]*

**Dinosaur Monument Rafting Adventure, Colorado—July 7–9.** See page 137 for details. *Leader: Mark A. Larson. Price: adult \$395, child \$345; Dep: \$50. [94380]*

**The Recesses of Pioneer Basin Burro Trip, John Muir Wilderness, Sierra—July 10–17.** See page 108 for details. *Leader: Ted Bradfield. Price: adult \$600, Dep: \$100; child \$400, Dep: \$50. [94260]*

**Lake Geneva, John Muir Wilderness, Eastern Sierra—July 23–30.** This packer-assisted base camp offers activities for all family members (eight and older), from vigorous hiking and peak-climbing to fun-filled evenings and games, serene sunsets and breath-taking views. Beginning at Laurel Creek Trailhead (7,600 feet) we will hike a strenuous eight miles over a 10,000-foot pass to Lake Geneva. There will be opportunities for swimming, fishing, relaxing, and exploring surrounding valleys.

**NOTE: Child prices apply to participants age 16 and under.**



*Leader: Becky Hawk Lynch. Price: adult \$560, Dep: \$100; child \$375, Dep: \$50. [94272]*

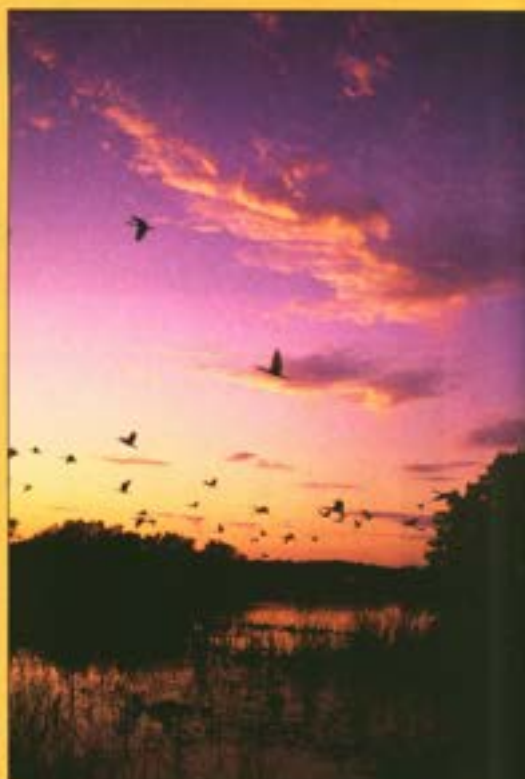
**Pyramid Lakes Teen Backpack, Bridger Wilderness, Wyoming—July 27–August 3.** Families with teens will enjoy hiking on moderate-to-difficult trails through the Bridger Wilderness. Trails and campsites are between 8,000 and 10,000 feet; hikes average eight miles. Four layover days let us explore the abundant lakes and rugged terrain up to the Continental Divide on Washakie Pass and to Bernard Peak (12,193 feet). Wildlife and wildflowers add to this alpine experience. Child price applies through age 19. (Rated M) *Leaders: Joanie and Mike Hoffmann. Price: adult \$365, child \$245, Dep: \$50. [94273]*

**Big Pine Lakes and Palisade Glacier, John Muir Wilderness, Sierra—July 30–August 6.** This week in a cluster of alpine lakes at 10,000 feet offers dayhiking, peak-bagging, fishing, and relaxation in habitats ranging from forest to glacier, below a fine assortment of alpine peaks. Our campsite will be reached by a moderate five-mile, 2,200-foot-elevation-gain hike suitable for kids six and



older, starting near Big Pine. *Leaders: Tom and Carol Baker. Price: adult \$575, Dep: \$100; child \$385, Dep: \$50. [94274]*

**Stehekin Valley, North Cascades, Washington—July 31–August 6.** Stehekin Valley is a threshold to magnificent wilderness. This isolated area in the North Cascades encompasses alpine mountains, glaciers, whitewater rivers, waterfalls, wildlife, and wildflowers. Access is by ferry traveling the 50-mile length of Lake Chelan. Dayhikes ranging from easy to strenuous are suitable for children six and older. The lodging is rustic and the meals are family-style. *Lead-*



*Clockwise from top left: Clair Tappaan Lodge; ibis, Everglades, Florida; North Cascades, Washington; swamp rose mallow.*

*ers: Jennifer and Ron Taddei. Price: adult \$750, Dep: \$100; child \$495, Dep: \$50. [94275]*

**Finger Lakes Toddler Tromp, New York—August 1–7.** Explore sculptured gorges and wildlife ponds in northeastern woods and fields. Swim in cool waterfall pools; hike on trails suitable for children; visit farmlands and a bird sanctuary; experience expansive hilltop vistas. Evening campfires and marshmallow roast. Tent-camping. Participation of families new to camping or families with children with special needs encouraged. *Leader: Ginny Coombs. Price: adult \$375, child \$250; Dep: \$50. [94276]*

**Skyline to the Sea Adventure Base Camp, Santa Cruz Mountains and Coast, California—August 1–7.** 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



PHOTO: SIERRA CLUB VOLUNTEER

Basin State Park, where we'll establish our base camp in an idyllic meadow, visit waterfalls and swimming holes, and enjoy the solitude of the forest. Moving to the coast, we'll ride on a narrow-gauge steam train, visit a mammal reserve, and sleep at a lighthouse. *Leaders: Paris Lemos and Susanne George. Price: adult \$305, child \$205, Dep: \$50. [94277]*

**Teton Basin Teen Backpack, Targhee Forest, Wyoming—August 5–12.** Teton Basin parallels Grand Teton National Park. We begin in Grand Targhee, Wyoming, hiking six to nine miles a day on good trails, with elevations between 8,500 and 10,000 feet. On four layover days we'll climb walk-up peaks like Table Mountain. Camps will be at alpine lakes amid wildflowers and wildlife. Parents with teens with some backpacking experience welcome. Child price through age 19. (Rated M) *Leaders: Joanie and Mike Hoffmann. Price: adult \$330, child \$220, Dep: \$50. [94278]*

**Vandenberg and Stanford Lakes, Ansel Adams Wilderness, Sierra—August 6–13.** Visit the beautiful western portion of the Ansel Adams Wil-

derness, and enjoy fishing in nearby lakes or hiking up nearby peaks. We begin at Miller Meadow (6,800 feet) and hike to our base camp at 8,800 feet. Dayhikes will be leisurely to vigorous. We'll enjoy breathtaking views, swimming, and just kicking back. Families with teenagers and children eight years or older welcome. *Leader: Donna Wells. Price: adult \$520, Dep: \$100, child \$345, Dep: \$50. [94279]*

**Clair Tappaan Lodge Service Trip, Tahoe Forest, Sierra—August 7–13.** We'll stay at the Sierra Club's rustic lodge near 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. See the description on page 104 for more information on Clair Tappaan Lodge. *Leaders: Elaine and Timothy Stebler. Price: adult \$210, child \$140, Dep: \$50. [94280]*

**Goddard Divide and Muir Pass Burro Trip, Kings Canyon Park, Sierra—August 14–26.** See page 108 for details. *Leader: Anne Parker. Price: adult \$845, child \$565, Dep: \$100. [94265]*

# Sierra Club 1994 Summer Educators Workshop

Teaching for an Environmentally Sustainable Future

Sunday, July 10–Saturday, July 16

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 and trends in environmental education.
- Strategies for educating for global change—an interdisciplinary approach.

## Cost

Adults \$300 Teens \$230 Children (7-12) \$200

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

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

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

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## 1994 SUMMER ENVIRONMENTAL WORKSHOP REGISTRATION FORM

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Do you wish teaching credits?  yes  no

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.

*"The trip was well-planned: the bus to the trailhead, the diversity of the trails, a food cache midway to avoid heavy packs for the children..."*



**Navajoland Cultural Experience, Canyon de Chelly Monument, Arizona—August 15–21.** Join our leisurely walk through time as we view prehistoric cliff dwellings and pictographs amid the spectacular beauty of Canyon de Chelly. We will be guided by Navajos and learn about the Navajo way of life by sharing experiences—cooking, games, art, and ceremonies. We'll hike between campsites while our heavy gear is transported by van. Minimum age nine. *Leaders: Patricia Boyle and Roland Moore. Price: adult \$605, Dep: \$100; child \$405; Dep: \$50. [94281]*

**Acadia Toddler Tromp, Acadia Park, Maine—August 21–27.** Explore tidepools and shorelines; touch lobsters, sea cucumbers, and starfish; swim, hike Cadillac Mountain and Jordan Pond on trails suitable for children; pick blueberries; possibly see whales and seals. Enjoy evening campfires,

marshmallow roasts, a "down east" lobster dinner. Tent-camping, clean toilet facilities, warm showers, van transportation. Participation of families new to camping or families with children with special needs especially encouraged. *Leader: Ginny Coombs. Price: adult \$565, Dep: \$100; child \$380, Dep: \$50. [94282]*

**Skyline to the Sea Backpack, Santa Cruz Mountains and Coast, California—August 22–28.** Families with budding or experienced backpackers alike will find Big Basin State Park the perfect family getaway. We'll hike a total of 32 miles as we descend from the skyline to the sea, spending each trail night at a well-positioned camp. The final evening we will R & R at Pigeon Point Lighthouse Hostel. Wind-swept panoramas and waterfalls! Suitable for kids ten and up. (Rated M) *Leader: Susanne George. Price: adult \$325, child \$215; Dep: \$50. [94283]*

**Top to bottom: palm leaves; Disappointment Lake, Sierra Stehekin, North Cascades, Washington.**

**Just for Grandparents and Grandchildren, Tahoe Forest, Sierra—August 28–September 2.** Do you dream about spending more quality time with your grandkids, or sharing your knowledge of the outdoors with them? Your dreams can come true on this unforgettable outing based at the Sierra Club's own rustic Clair Tappaan Lodge (see page 104). Swim, hike, explore nature, or go off on your own adventure together. If you think they're old enough to be away from mom and dad for five whole days, go for it! *Leader: Grandpa Jim Maas. Price: adult \$310, child \$210; Dep: \$50. [94284]*

**Rogue River Rafting Adventure, Oregon—September**



**3–6.** See page 137 for details. *Leader: Jon Kangas. Price: adult \$650, child \$590; Dep: \$100. [94386]*

**Note:** Many other trips may be appropriate for families; contact individual trip leaders for information on specific trips. Also, see the listing under "Teen" on page 76 for trips suitable for teenagers.

## HAWAII



DAN HIGGINS/ALPHA IMAGES

DAN HIGGINS/ALPHA IMAGES



**T**HE 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, bicyclists, 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.

All outings include dayhikes, and optional overnight hikes are available on some.

#### Maui Whale-Watch and Count Service Trip—March 12–26.

Humpback whales and their calves winter in the sheltered waters off Maui before starting their journey north to Alaska. We will assist with ongoing research

trips. Children of all ages are welcome. *Leaders: Irma and Wayne Martin.* Price: adult \$815, child \$545; Dep: \$100. [94061]

#### Big Island Bicycle Tour—June 18–30.

On this intermediate, sag wagon-supported trip, we'll bike along the green and lush Hamakua Coast as well as through the black-lava-rock landscape of the Kona Coast. The highlight is 4,077-foot Volcano National Park, where Kilauea periodically erupts, pouring lava into the sea. Overnights in small hotels or cabins; layover days permit hiking, snorkeling, and swimming. *Leader: Thelma Rubin.* Price: \$1,390; Dep: \$200. [94286]



DAN HIGGINS/ALPHA IMAGES

#### Sea Kayaking in Kauai—June 26–July 2.

Kayaking the wilderness Na Pali coast of Kauai is undoubtedly a peak experience. Using a sit-on-top kayak, join this small group in exploring sea caves along the coast, walking the cool inland valleys where ancient Hawaiians lived, and snorkeling with sea turtles and colorful reef fishes. Just a hint of what's to come! Not suitable for non-swimmers. Kayak rental included. *Leaders: Carolyn and Joe Braun.* Price: \$1,205; Dep: \$200. [94287]

#### Mauna Loa Volcano Backpack—October 2–14.

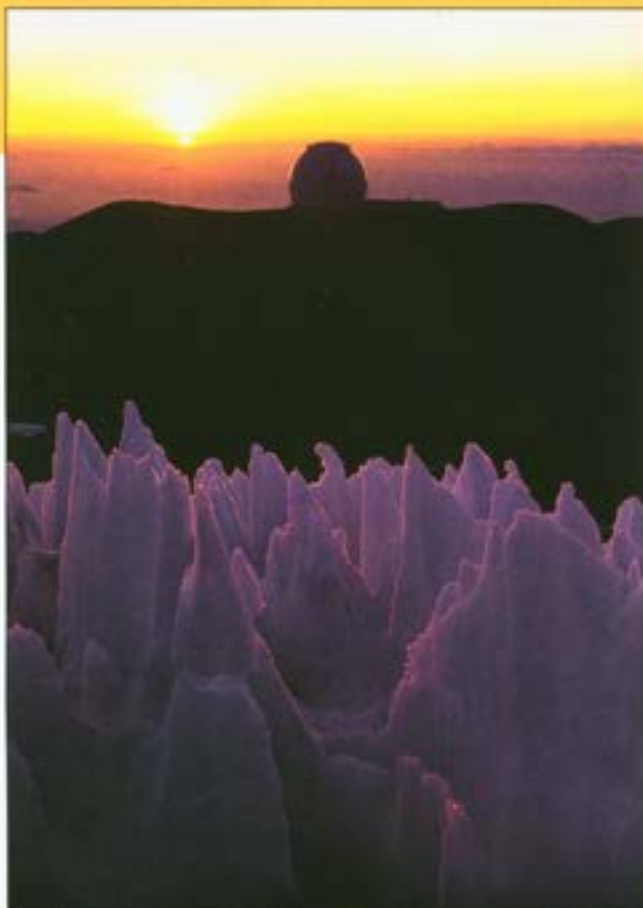
Explore Mauna Loa from its cavernous summit caldera down to its grassy, coastal flanks on this 12-day backpack in Volcanoes National Park on the Big Island. After an arduous trek to the 13,667-foot summit, we relax at the summit cabin and investigate outrageous volcanic features. For a complete volcano experience, we'll also backpack and explore a coastal area of the park. (Rated S) *Leader: Duane Ottens.* Price: \$1,125; Dep: \$200. [94289]

Top to bottom: Kilauea Volcano; Waianapanapa State Park, Maui; Mauna Kea observatory, Big Island.

studying the effects on whales of increased boat traffic due to tourist activities. Our pace will be comfortable, with leisure time available to explore the beaches and mountains of this wonderful Hawaiian island. *Leader: Jennifer Taddai.* Price: \$1,145; Dep: \$200. [94060]

#### Big Island Family Adventure—March 26–April 2.

The island of Hawaii offers the visitor tropical scenery and numerous outdoor activities. We will sample the Big Island's exciting and surprising contrasts—volcanoes, fern forests, lava tubes, lush valleys, and picturesque beaches. Hiking, snorkeling, and sightseeing are some of the activities available. We will be staying in rustic lodgings at several loca-



DAN HIGGINS/ALPHA IMAGES

# HIGHLIGHT



**H**IGHLIGHT 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 between sites, enabling you to visit a larger territory. Accommodations range from campgrounds to bed-and-breakfasts.

Families with children 12 or older are welcome. Routes and mileages are within the ability of anyone who has done a reasonable amount of pre-conditioning.

#### Utah Van and Hiking Tour, Southeast Utah—April 10–16.

This 300-mile van circuit, originating and ending in Grand Junction, Colorado, will sample Utah's high desert (4,000 to 6,000 feet), including portions of Canyonlands and Arches national parks, Natural Bridges National Monument, and some neighboring scenic lands. Four layover days offer opportunities for moderate hikes (some exposure to heights), photography, and sightseeing. Sharp spring weather likely, spring bloom a possibility. *Leader: Carol Baker. Price: \$460; Dep: \$50. [94062]*

#### Pinnacles and Prairie, Badlands Park, South Dakota—May 22–27.

Serenaded by coyotes, the moonlight will illuminate colorful spires, pinnacles, and sawtoothed ridges in the *malpais* (badlands). We

will trek within the largest prairie wilderness in the United States amid mixed grasses and rugged barren landscape and observe prairie dogs, bison, eagles, and other wildlife. Our primitive campsites provide pure air and outstanding sunsets in remote, quiet splendor. *Leader: Faye Sitzman. Price: \$385; Dep: \$50. [94063]*

#### Fly-Fishing the Blue Ribbon Trout Rivers, Greater Yellowstone Ecosystem—July 3–9.

Try for the legendary fish on fabled rivers—the Madison, Henry's Fork, Yellowstone, Slough, Firehole, Gibbon, and Snake. Fish the famous insect hatches such as the salmon fly and green drake. When not fishing, catch your breath by watching osprey, moose, or bear, improving your fly-fishing techniques, or learning about the ecosystem's conservation

issues. Car-camping. *Leader: David Morrison. Price: \$485; Dep: \$50. [94290]*

**Northern Yosemite, Sierra—August 14–24.** We'll walk from Virginia Lakes to Buckeye Canyon, crossing the crest of the Sierra Nevada twice on a classic "High Trip" route through the remote northeast corner of Yosemite National Park. Lakes famous for their beauty, some of the largest alpine meadows in the world, granite peaks, and glaciated canyons will be our companions. A hot spring will await us on our last and longest day's hike. *Leader: Jerry Clegg. Price: \$1,190; Dep: \$200. [94291]*

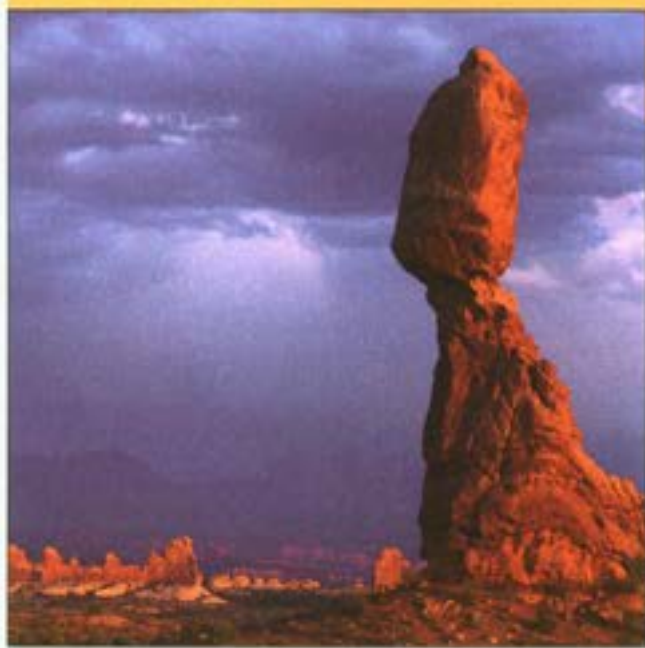
**An Ozark Ramble, Buffalo River, Arkansas—October 16–22.** Clearwater streams, towering bluffs, pioneer farmsteads,

a blaze of fall color—we'll see this and much more as we day-hike along the Buffalo and up side canyons. Explore and learn about the features and history of some of the best country in the Ozarks at a relaxed pace. A van will move our gear from one campsite to the next. Vegetarians accommodated. *Leaders: Mary and John Frantz. Price: \$390; Dep: \$50. [94292]*

**Note: See also Burro and International trips.**



Top to bottom: phoenix; outthroat trout, Montana; Arches National Park, Utah.



# ICO



**I**NNER 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 an awareness of wilderness ethics—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!), they develop self-respect and respect for others, and get to know people of diverse ethnic and cultural backgrounds.

In some communities, ICO volunteers conduct leadership training programs to encourage youth participants to become outing leaders themselves.

In 1993, volunteer leaders provided more than 750 outings for close to 10,000 participants. Currently, there are 39 Inner City Outings groups in these locations:

Atlanta, Georgia  
Austin, Texas  
Boston, Massachusetts  
Charlotte, North Carolina  
Chicago, Illinois

New York, New York  
Oklahoma City, Oklahoma  
Philadelphia, Pennsylvania  
Phoenix, Arizona  
Portland, Oregon  
Raleigh, North Carolina  
Reno, Nevada\*  
Sacramento, California  
St. Louis, Missouri  
San Diego, California  
San Francisco, California  
San Jose, California  
Seattle, Washington



SIERRA CLUB

Both photos:  
ICO outings in New York with Boys & Girls Club of Harlem.

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  
Los Angeles, California  
Memphis, Tennessee  
Miami, Florida  
New Haven, Connecticut\*  
New Orleans, Louisiana

Tampa, Florida  
Tucson, Arizona  
Tulsa, Oklahoma\*  
Washington, D.C.  
\*Established in 1993

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**



SIERRA CLUB

## INTERNATIO



**E**NJOY WILDERNESS ADVENTURE TRAVEL IN some of the most exotic locations on Earth. On our international trips, you will 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 you 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 descriptions and brochures to determine which outing is for you.

Knowledgeable leaders and local guides will introduce you to the culture, outdoor beauty, and conservation issues of the host country; local environmentalists and naturalists are often involved. This approach sets Sierra Club trips apart from ordinary adventure travel.

Please note that international trips are tier-priced; for an explanation of tier-pricing, see page 143. Trip prices do not include airfare.

## Africa

**Exploring Kenya by Track and by Trail—June 18–July 3.** Join us for a unique African adventure—wildlife viewing, cultural exchange, and alpine trekking on the equator accompanied by a naturalist. From the savannas of the Masai Mara to the highlands of the Aberdares, we explore six national preserves, visit with the Masai in their homeland, and see a wide variety of wildlife. We will camp in exclusive and comfortable campsites as well as stay in some of Kenya's finest game lodges. See below for information on option to climb Mt. Kenya with the leader at the conclusion of this trip. *Leader:*

*Paul McKown. Price: \$3,685 (12-15) / \$3,965 (11 or fewer); Dep: \$200. [94595]*

**Mt. Kenya Climb—July 4–11.**

Experience the beautiful and unique landscape of snow-capped Mt. Kenya on this one-week, porter-assisted climb. This trip must be in conjunction with either trip #94595 above or #94620 below. *Leader: Paul McKown. Price: \$1,885 (12-15) / \$2,025 (11 or fewer); Dep: \$200. [94617]*

**Ngorongoro Crater to Zanzibar, Tanzania—July 12–26.**

The Serengeti, Tarangire, Manyara, and the unique Ngorongoro Crater offer some of the best wildlife-viewing in East Africa. Expect to see plains ani-



mals, elephants, lions, splendid birds, gazelles, perhaps a dik-dik, and many more. From these inland areas we fly to the Indian Ocean and the ancient city of Zanzibar, with its marketplace, narrow streets, spice plantations, and broad beaches. Travel is mostly by Land Rover, with several one-day hiking options. Accommodations will be in comfortable lodges and tented camps. In-country air charter not included in trip price. See above for information on option to climb Mt. Kenya prior to this trip. *Leader: Kern Hildebrand. Price: \$3,340 (12-15) / \$3,615 (11 or fewer); Dep: \$200. [94620]*

**Botswana Wildlife Safari—**

**August 14–27.** Botswana is one of the few remaining havens of African wilderness, a naturalist's and ornithologist's paradise where great herds of elephant, wildebeeste, and buffalo still roam free. Join us on this camping/lodge safari as we explore the inland waterways of the Okavango Delta in dugout canoes and by foot, walk with

*Clockwise from top: Bolivian blanket; Antarctic Peninsula; Annapurna Region, Nepal; Makutano, Kenya; ice cave, Nepal.*



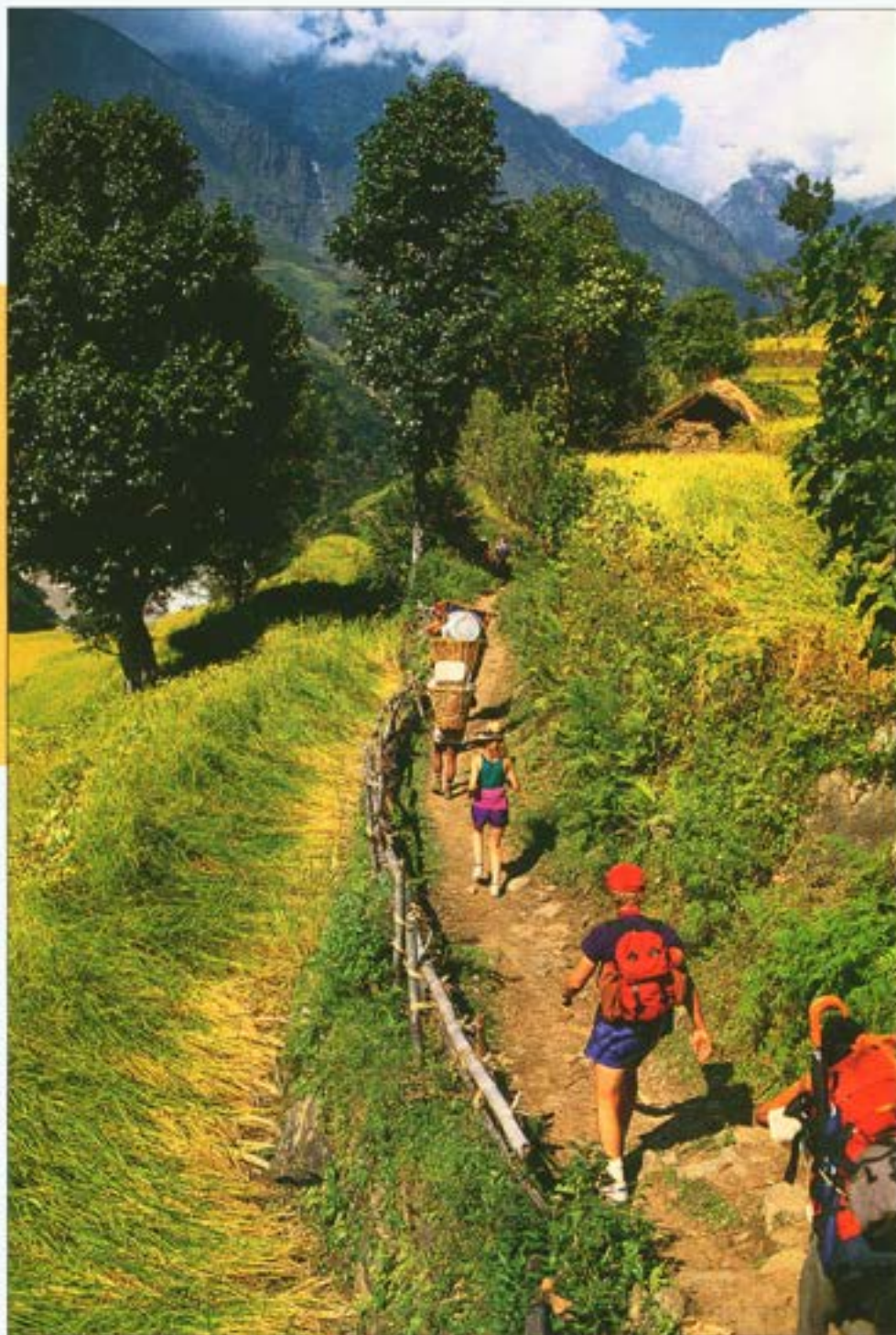
bushmen in the Tsodilo Hills, and watch for big game and exotic birds at Moremei and Chobe. The trip will conclude at Victoria Falls. *Leader: Ruth Dyche. Price: \$4,370 (12-15) / \$4,650 (11 or fewer); Dep: \$200. [94635]*



# NAL



DAVID J. SANDERSON



## Antarctica

### Adventure Cruise, Antarctic Peninsula—December 30, 1994—January 12, 1995.

Explore the seventh continent with a two-week adventure cruise to the Antarctic Peninsula, a scenic wonderland with some 20 "glacier bays" strung together. You'll be a passenger aboard a comfortable, fully equipped, polar-research vessel. The cruise itinerary will include visits to Deception Island, Hope Bay, Anvers Island, Lemaire Channel, Paradise Bay, and many more. Landings will be made by inflatable rubber rafts. This will be a voyage of exploration with emphasis on wildlife and Antarctic conservation. *Leader: Leo Le Bon. Estimated price: \$4,790–5,035; Dep: \$200. [95700]*

## Asia

**Rajasthan Desert Kingdoms, India—March 22–April 9.** Join us for an exploration of the politically stable Indian state of Rajasthan. It is a mosaic of beautiful landscapes, from desert dunes and citadels to lake-studded cities with gardens. The vibrant people reflect this colorful land in their religion, music, art, dance, and history. We will visit all five ancient desert cities, and enjoy a five-day camel safari across the dunes of the Thar Desert. A visit to the Taj Mahal in Agra will be another highlight. *Leader: Bob Madsen. Price: \$2,390 (12-15) / \$2,665 (11 or fewer); Dep: \$200. [94545]*

**Japanese Cherry Blossom Season—April 12–22.** The annual blooming of cherry trees in Japan is nothing short of heavenly. We will be "snowed

# INTERNATIONAL

upon" by falling blossoms as we travel from Tokyo to Nikko National Park, around Mt. Fuji and north to the Japan Alps and the Sea of Japan. Our final destination will be Kyoto with its beautiful temples and gardens. Travel will be by bullet train and local buses, and accommodations will be inns, a hot springs resort, and a 650-year-old temple. **Leader:** Carolyn Castleman. **Price:** \$3,890 (10-12) / \$4,145 (9 or fewer); **Dep:** \$200. [94555]

## The Hidden Kingdom on the Roof of the World, Kathmandu-Lhasa Overland, Nepal and Tibet—April 17-30.

Few places have captured the human imagination 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 Sakyamuni Monastery in Shigatse, Tashilhunpo, and the Potala in fabled Lhasa. **Leader:** Patrick Colgan. **Price:** \$2,530 (12-15) / \$2,805 (11 or fewer); **Dep:** \$200. [94510]

## Southern Dolpo: Pokhara to Jumla, Nepal—May 9-June 10.

At the edge of the Tibetan Plateau in the Himalayan rain-shadow lies Dolpo—the legendary "Hidden Land" closed for years to trekkers. Heading west from Pokhara, we journey into a beautiful, wild, and crystalline landscape which few foreigners have seen. Crossing the great Dhaulagiri range at Jang La (14,800 feet) we enter a world of rugged people and remote monasteries, including Ringmo Gompa on the shores of Phoksundo Lake. Maximum elevation is 16,600 feet at Kagmarala. **Leader:** Cheryl Parkins. **Price:** \$2,890 (10-12) / \$3,145 (9 or fewer); **Dep:** \$200. [94565]

**NOTE: International trip prices do not include airfare.**

## Following the Silk Road Through China and Beyond—May 18-June 8.

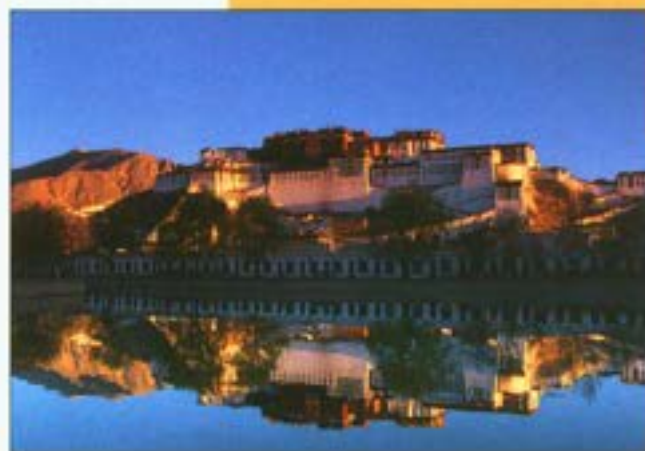
Get swept up in a wave of history and adventure! Starting at the ancient capital city of Xian, we follow the route of the great trade caravans to Dunhuang's Caves of a Thousand Buddhas. We'll visit the oasis town of Turpan and hike at the aptly named Heavenly Lake. After enjoying Kashgar's colorful Sunday bazaar we'll cross the Khunjerab Pass into spectacular northern Pakistan and the fabled land of Hunza. The trip ends in Islamabad. **Leader:** Ruth Dyche. **Price:** \$4,000 (12-15) / \$4,275 (11 or fewer); **Dep:** \$200. [94575]

## Hiking in Central Asia—May 22-June 10.

Come sample the ancient history of remote Central Asia—its dramatic intermontane scenery, cultural mosaics, and monuments to the medieval past. Enjoy the mobility of air, train, and bus travel, from Samarkand and Bukhara in Uzbekistan to Bishkek in Kirghistan and Almaty (formerly Alma-Ata) in Kazakhstan. Collect memories of a six-day Tien Shan mountain trek, numerous dayhikes, tent-camping at the base of Khan-Tengri, spartan hotels, colorful and redolent markets, and a warm inland sea perched among glacier-clad mountains. **Leader:** Bud Bollock. **Price:** \$2,975 (12-15) / \$3,250 (11 or fewer); **Dep:** \$200. [94580]

## Altai and Tien Shan Mountains, Kazakhstan—September 4-27.

The mountains of the Altai and Tien Shan rise in splendor near the Kazakhstan-China border. Westerners have only recently been allowed to explore their wild, cascading rivers and untamed peaks. We will mix backpacking along these rivers with home visits in Almaty (formerly Alma-Ata); helicopter to the base camp of Khan-Tengri (24,406 feet); hike along slowly flowing glaciers over Laido Pass; and descend past waterfalls to a deserted village. Our visit will start and end in Moscow. **Leader:** Frances

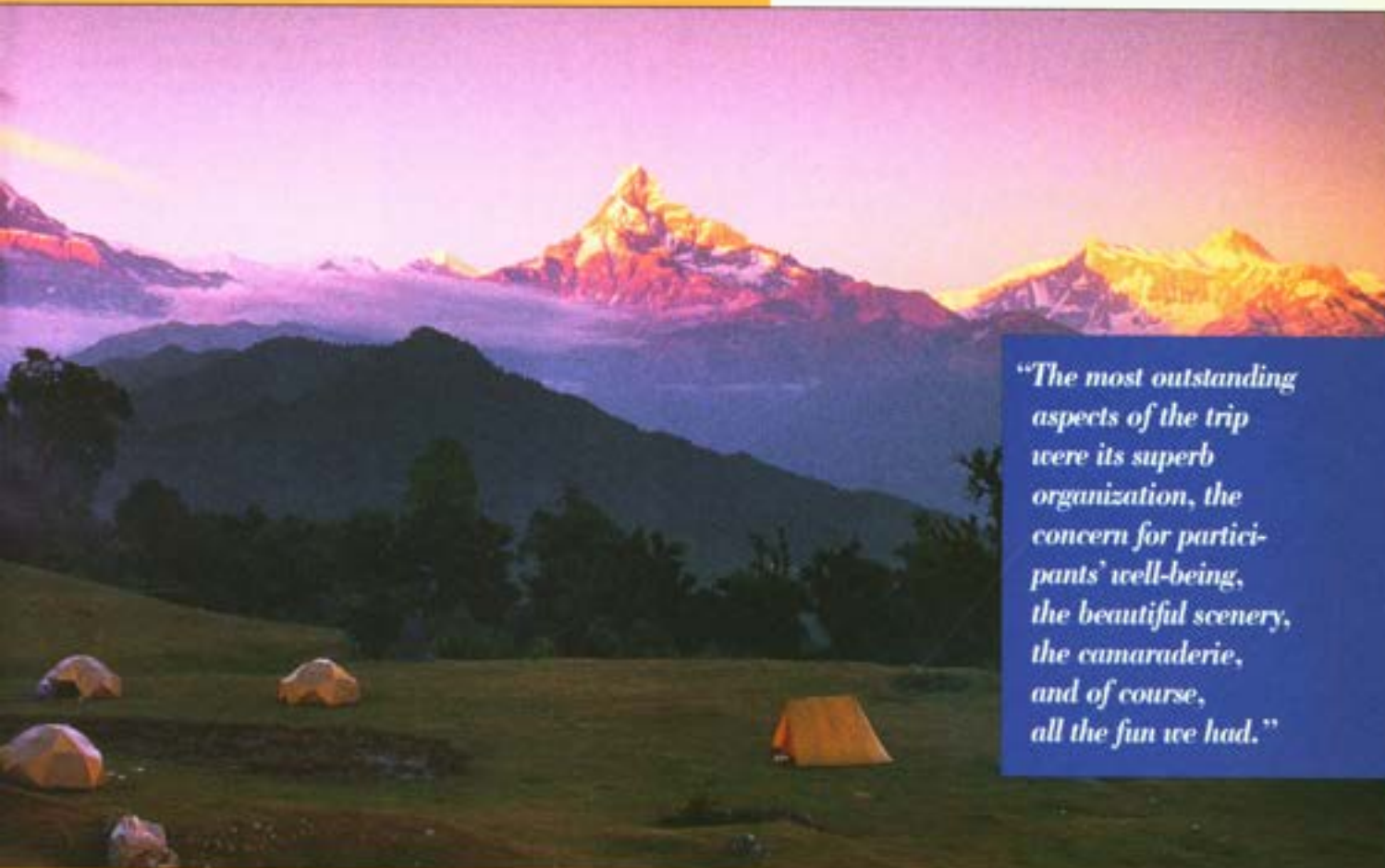


Colgan. **Price:** \$3,980 (12-15) / \$4,260 (11 or fewer); **Dep:** \$200. [94695]

## Manaslu Circle Trek, Nepal—October 17-November 16.

This circumnavigation of one of the world's 26,000-foot massifs will take us through the entire spectrum of climate, scenery, and people of Nepal. Our route takes us from the town of Gorakhpur through the gorges of the

Marsyangdi and Buri Gandaki rivers, over the stark glacial beauty of 17,100-foot Lakyala-La Pass, and on to Phewa Tal Lake at Pokhara. We will experience unspoiled Nepalese culture in the friendly villages along our route, as well as explore the sights and sounds of Kathmandu. **Leader:** Cahit Kitaploglu. **Price:** \$2,855 (12-15) / \$3,130 (11 or fewer); **Dep:** \$200. [94655]



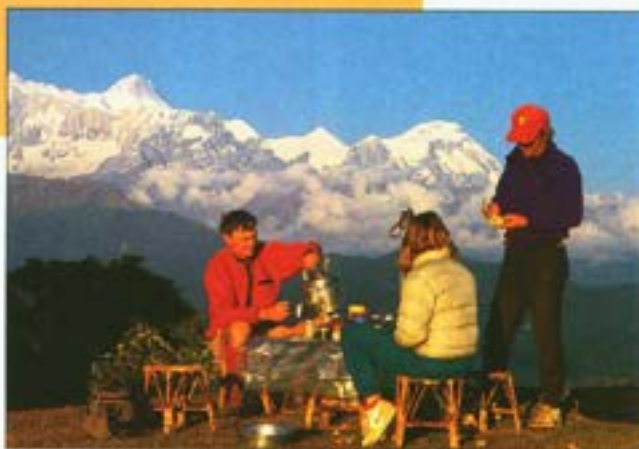
*"The most outstanding aspects of the trip were its superb organization, the concern for participants' well-being, the beautiful scenery, the camaraderie, and of course, all the fun we had."*

Above: Annapurna Range, Nepal; left, Potala Palace, Lhasa, Tibet; right, Dhampas, Annapurna Area, Nepal.

**Kang Chu Himal, Nepal—November 10–December 7.**

The isolated Kang Chu Valley near the Tibetan border has only recently been opened to trekking. This maze of steep, forested canyons and scattered hamlets lies in the shadow of 23,000-foot Gauri Shankar. Our porter-supported, moderately paced, and occasionally strenuous trip offers photography, leisurely side-hikes to gompas and villages, optional non-technical climbs, and rich cultural experiences. Our highest camp will be approximately 14,000 feet. Strong beginners welcome. *Leader: Patrick Colgan. Price: \$2,740 (12-15) / \$3,015 (11 or fewer). Dep: \$200. [94670]*

**Trekking and Touring in North Vietnam—November 14–27.** Here is an opportunity to visit a



distant land whose history is so entwined with our own. Once afflicted by war, Vietnam can now be appreciated as one of Southeast Asia's environmentally and culturally rich areas. We begin in Hanoi, touring cultural attractions and enjoying French colonial architecture. We then visit Cuc Phuong, a tropical forest teeming with bird, animal, and insect life. On the trekking portion of the trip we'll experience the

hill tribe culture and enjoy the music, architecture, and cuisine of this complex and beautiful country. *Leader: Reed McManus. Price: \$3,220 (14-18) / \$3,415 (13 or fewer). Dep: \$200. [94675]*

**Lamjung Holiday Trek, Nepal—December 17–30.** Leave the shopping mall behind this holiday season to hike beneath some of the most beautiful mountains in the world. On this

little-known route we will enjoy the solitude of true Himalayan wilderness. The ascent takes us through delightful Gurung villages, where terraced fields are planted with winter wheat. The watchful presences of Machhapuchhare, Annapurna IV, Annapurna II, and Lamjung Himal make this a rewarding pilgrimage to the "roof of the world." Maximum elevation approximately 13,000 feet. *Leader: David Horsley. Price: \$1,500 (12-15) / \$1,700 (11 or fewer). Dep: \$200. [94705]*

**South China Holiday—December 19, 1994–January 2, 1995.** Kunming, Dali, Xishuangbanna, and Guilin are the highlights of this adventure through fascinating, exciting, and scenic South China. Many of China's colorful minority groups live in this area, and we plan to visit them in their homes and markets. You'll never forget the Bai people of Dali, the jungle and peoples of Xishuangbanna, or the Li River cruise in Guilin. Kunming, China's "City of Eternal

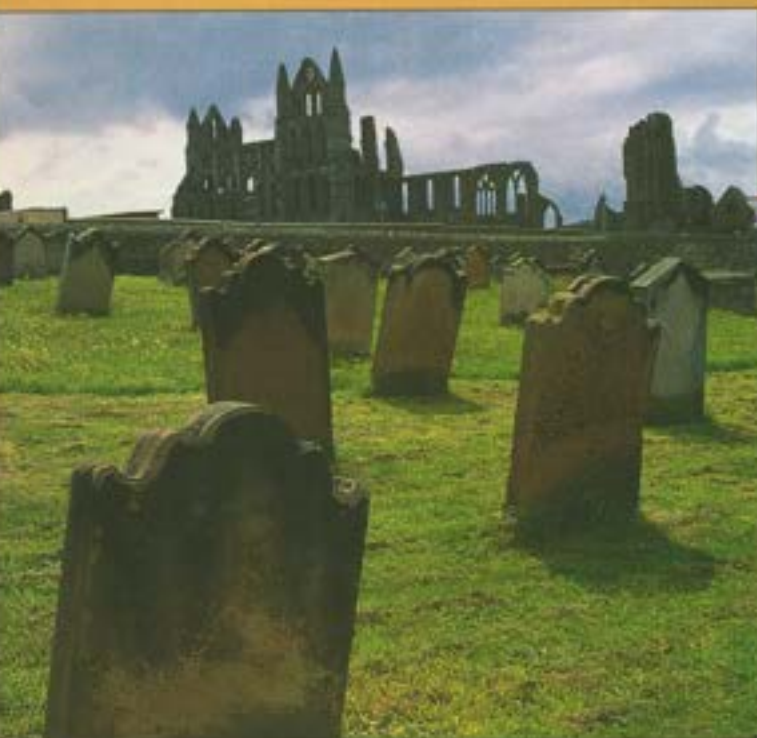
# INTERNATIONAL



landscapes, archaeology, history, and cultural diversity. We explore this extraordinary little world by foot and by van, spending our nights in forest lodges, monasteries, and village homes. We'll encounter the breadth of Cypriot history, from the Neolithic settlement of Khirokitia to Byzantine Painted Churches. Bring a snorkel for the warm sea, and boots for hiking the uninhabited coast of the Akamas Peninsula and the trails of the Troodos Mountains. Lead-

HERBERT HOLLER

Above left: Arenal Volcano, Costa Rica; left to right below: Whitby Abbey, England; snorkeling in Belize; French Alps.



KEVIN SHAW



PHIL BIRCHALL

## Europe

**England's Coast-to-Coast Walk: From the Irish Sea to the North Sea—May 1–14.** 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 minibus 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: \$2,630 (11-14) / \$2,935 (10 or fewer); Dep: \$200 [94560A]*

**Cyprus: Eastern Mediterranean Crossroads—May 14–29.** The island of Cyprus is a microcosm of Mediterranean

er. *David H. Stewart. Price: \$2,755 (12-15) / \$3,030 (11 or fewer); Dep: \$200 [94570]*

**England's Coast-to-Coast Walk—May 15–28.** This is a second section of the popular trip. See Trip #94560A above for description. *Leader: Phil Gowing. Price: \$2,630 (11-14) / \$2,935 (10 or fewer); Dep: \$200 [94560B]*

**Cumbria Service Trip, Lake District Park, England—June**

Spring," is the highlight of our trip. *Leader: Phil Gowing. Price: \$2,630 (10-12) / \$2,945 (9 or fewer); Dep: \$200 [95710]*

**Annapurna Sanctuary, Nepal—March 13–26, 1995.** We begin our spring trip by exploring the fascinating temples and world-famous bazaars of the fabied city of Kathmandu. Our moderate trek then takes us into the heart of the Annapurna Sanctuary, where we'll be surrounded by the 26,000-foot peaks of the

Annapurna Massif. Nepalese guest lodges will provide us with Spartan accommodations and ample food. We'll support the Annapurna Sanctuary conservation program and its planned conversion to fuel-efficient cooking stoves and reduced dependency on scarce firewood. Two days in Pokhara include a tour of the exotic sights and a visit to the lakeside bazaar. *Leader: John Bird. Price: \$1,615 (8-10) / \$1,870 (7 or fewer); Dep: \$200 [95715]*

**1-15.** This trip provides an opportunity for hands-on participation in a conservation project for England's largest national park. Learn "dry-stone walling" from skilled craftsman and rebuild upland footpaths. Discover Lakeland's rich historical past while exploring the area's mountains and culture. Leisure activities include walks, talks, lake cruises, pub singing, and visits to literary and historical attractions. Bed-and-breakfasts provide the traditional English experience. Make conservation a global issue and have a jolly good time too! **Leader:** Gary Swanson. **Price:** \$2,205 (10-13) / \$2,455 (9 or fewer); **Dep:** \$200 [94585]

**Tyrolean Summer Dream, Hiking and Biking in Austria—**

the 12th century. **Leader:** Dan Noble. **Price:** \$2,575 (12-15) / \$2,850 (11 or fewer); **Dep:** \$200 [94590]

**Norway's Lofoten and Midnight Sun—June 21–July 2.** Spend eight days under the Midnight Sun and above the Arctic Circle on Norway's Lofoten Islands. We'll experience the islands through dayhikes, cultural tours, and photography (your leader is a nature photography instructor). We stay four nights in Kabelvag, dayhiking in the steep, glacier-carved mountains rising out of the ocean, then spend our last three nights at *rorbuer* (fishing cottages) in Reine. The trip ends with two days in a hotel at Trondheim, touring fjords, museums, and cathedrals. **Leader:** Mark A. Larson. **Price:** \$2,825 (12-15) / \$3,105 (11 or fewer); **Dep:** \$200 [94605]

**Haute Dauphine, French Alps—July 3–13.** Hikers of all ages are welcome on this venture into the old Haute Dauphine region of alpine France. We will visit two parks southeast of Grenoble—*Parc des Ecrins*, sometimes called the Yosemite of France, and nearby *Parc du Queyras*. Traveling by van, we'll hike by day and spend our nights in al-

pine inns. The more adventure-some may opt for an overnight jaunt to a mountain hut. The walled city of Briançon, a haven for artisans, is on our itinerary. **Leader:** Jerry South. **Price:** \$2,340 (12-15) / \$2,615 (11 or fewer); **Dep:** \$200 [94615]

**Mountains of Contrast: The Diverse Dolomites, Italy—August 29–September 11.** The Dolomites offer a multitude of contrasts—geological, cultural, and scenic—from towering peaks to peaceful meadows and photogenic hamlets. Our walks of about seven miles each will include vigorous mountain hikes as well as casual village rambles. Accommodations in family-run hotels and refuges and quiet moments to sketch a favorite view or sip a cappuccino complete this special mountain journey. **Leader:** Wayne Martin. **Price:** \$2,705 (12-15) / \$2,980 (11 or fewer); **Dep:** \$200 [94640]

**Insider's View of the Loire Valley, France—September 5–13.** This late-summer adventure is being organized under the auspices of a premier French conservation organization. We'll stay in an 11th-century abbey hotel and take daily excursions to a variety of sites. Complementing our moderate walks will be visits to a chateau as well as an abbey, and a forest and garden near the town of Chinon. Our emphasis will be on understanding current and future pressures and proposals for the region. Come see why the French of the Loire Valley take such pride in this beautiful area! **Leader:** Lynne Simpson. **Price:** \$2,330 (12-15) / \$2,605 (11 or fewer); **Dep:** \$200 [94600]

**Hiking the High Tatras, Slovakia—September 5–17.** The smallest high mountains in Europe, the High Tatras, with their jagged peaks and mysterious and brooding aspect, rise like a rampart on Slovakia's northern border with Poland. Our hiking is mostly above treeline and generally moderate, more challenging trails can be bypassed with easier routes, and peak-climbs on layovers are optional. We'll be accompanied by an English-speaking Tatra National Park guide/mountaineer. Accommodations will be in mountain

hotels. We can expect Indian Summer weather, with the trees just turning color. **Leader:** Wayne R. Woodruff. **Price:** \$1,945 (12-15) / \$2,205 (11 or fewer); **Dep:** \$200 [94645]

**Sailing and Hiking in Greece—October 21–November 3.** Few things in life are as idyllic as sailing on the azure Mediterranean. Although no sailing skills are necessary, participants must be willing to lend a hand for crewing tasks as we hunt for hidden coves and deserted beaches. For the final five days we will hike and explore the ancient island of Crete, where we will stay near the old Venetian harbor of Haniá. **Leader:** Carolyn Casteman. **Price:** \$3,245 (12-15) / \$3,525 (11 or fewer); **Dep:** \$200 [94660]

## Latin America

**Belize: Reef and Ruins—February 15–26.** We explore Belize's lush interior while staying at an ecology- and conservation-oriented lodge. At the island city of Flores in neighboring Guatemala we'll have two full days to experience the magnificent Mayan ruins at Tikal. The remainder of our Central American adventure will be on a palm-fringed island next to a barrier reef. Here we snorkel in the crystal-clear waters of the Caribbean, learn about marine ecology and conservation, and feast on fresh seafood. **Leader:** Lola A. Nelson-Mills. **Price:** \$2,265 (10-12) / \$2,520 (9 or fewer); **Dep:** \$200 [94530]

**Magdalena Bay Sea Kayaking and Whale-Watching, Baja California, Mexico—February 19–25.** Few methods of travel allow a more intimate bond with nature than kayaking. Journey with us on the narrow waterways of tranquil Magdalena Bay, winter home for hundreds of California gray whales. We'll also see a wide variety of migrating shore- and seabirds as we paddle through mangrove-lined channels. Miles of uninhabited shoreline are a paradise for beachcombers. Inex-

**NOTE:** For an explanation of tier pricing, see page 143.



**June 18–July 2.** We will explore the legacy of kings, composers, and artists in the Salzkammergut, where sapphire lakes abound and alpine peaks tower overhead. Hikes and leisurely bike tours lead us from elegant Salzburg, Mozart's birthplace, to the healing spas and subterranean salt mines of Bad Ischl and Oberau's blooming mountain meadows. Evenings find us feasting, dancing, and enjoying local cultural events at quaint hotels and family inns dating to

## INTERNATIONAL

perienced-to-expert kayakers welcome. Instruction will be given, and a support boat will carry duffel, food, and water. *Leader: J. Victor Monke. Price: \$1,395 (10-13) / \$1,440 (9 or fewer); Dep: \$200. [94535]*

**Patagonia Trek, Chile—February 19–March 5.** 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]*

**Cultural Exchange and Rafting Adventure, Costa Rica—April 3–9.** Get a glimpse of Costa Rica's unmatched biodiversity. We will spend four days rafting the Pacuare and Reventazón, beautiful and exciting rainforest rivers with fern-laced waterfalls and enchanting side streams. One night we will camp along the Pacuare, while other nights we'll be guests in private homes or at a rustic mountain hotel with splendid views of the countryside. The last day we will tour the Carara Biological Reserve with its abundant bird and wildlife. *Leader: R. Kurt Menning. Price: \$1,650 (12-15) / \$1,895 (11 or fewer); Dep: \$200. [94550]*

**Exploring the Land of Eternal Spring, Northwestern Costa Rica—October 15–23.** Join the trip leader as she guides you through her homeland, "the land of eternal spring." You will visit three active volcanoes, and hike through both a cloud forest and a dry forest. Side trips will provide glimpses of unique and diverse flora and fauna ecosystems. Parrots will fly overhead

and monkeys observe from treetops as you raft through tropical jungle on the exhilarating Pacuare River. There will also be opportunities to encounter and enjoy the Costa Rican culture and lifestyle. *Leader: Ligia Fernandez Molina. Price: \$2,200 (12-15) / \$2,475 (11 or fewer); Dep: \$200. [94650]*

**Sea of Cortes Kayaking, Baja California, Mexico—October 22–28.** Search out hidden inlets, beaches, and rookeries as only possible in a kayak. Paddle, swim, or snorkel in the emerald-green waters of one of the world's most abundant marine environments. The harsh Baja habitat has created unique and imposing flora. The elephant tree, giant cacti, and wild fig clinging to the dark volcanic cliffs forge a stark elegance. Novice and experienced kayakers welcome. *Leader: Blaine LeCheminant. Price: \$1,395 (10-13) / \$1,440 (9 or fewer); Dep: \$200. [94665]*

**Total Solar Eclipse Expedition, Bolivia—October 30–November 5.** Bring your own telescopes and cameras, and join professional astronomer Dr. Jack Zirker to witness one of nature's great spectacles. We'll acclimatize with short walks near Lake Titicaca and visit Indian markets in exotic La Paz. We'll travel over the 13,500-foot altiplano, seeing towering volcanoes, llamas, Aymara villages, and salt lakes. Our base camp at Rio Mulatos will be near a group of Russian astronomers, whose work we can discuss with them. *Leader: Jack Zirker. Price: \$1,285 (12-15) / \$1,480 (11 or fewer); Dep: \$200. [94720]*

**Holidays in Belize—December 18–26.** With 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 ensures 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 bar-





Clockwise from top left: Fitzroy Massif, Patagonia; Kremlin, Russia; Lake Baikal, Siberia; scarlet macaw, Costa Rica.

rier reef. We'll stay at a simple guesthouse on the beach, snorkel in crystal-clear water, and feast on fresh seafood. **Leader:** Tim Wernette. **Price:** \$2,140 (12-15) / \$2,415 (11 or fewer). **Dep:** \$200. [94680]

**Enchanted Isles, The Galápagos, Ecuador—December 22–29.** No freeways. No frantic schedules. Winter in the Galápagos means warm breezes and white sand beaches teeming with the wildlife that inspired Darwin. Azure waters and golden sunsets accompany us as we travel from island to island, using anchorages once favored by

whalers and pirates. Whether snorkeling with fur seals at Devil's Crown, exploring unique bird colonies, or hiking through surreal lava flows, the Galápagos Islands remain Eden on the Equator. Join us! **Leader:** Dan Noble. **Price:** \$2,565 (7-9) / \$2,945 (6 or fewer). **Dep:** \$200. [94685]

**Cultural Exchange and Rafting Adventure, Costa Rica—December 24–30.** See description for trip #94550 above. **Leader:** Sallee Lotz. **Price:** \$1,650 (12-15) / \$1,895 (11 or fewer). **Dep:** \$200. [94690]

## Pacific Basin

**Exploring New Zealand—February 6–26.** New Zealand offers the visitor many outdoor activities. Beginning in Auckland, we will explore the country's attrac-

tions by dayhiking and sightseeing our way to Christchurch. You can anticipate steaming volcanoes, erupting geysers, bubbling-hot mudpools, the Maori village, glowworm grottoes, the Kauri forest, alpine valleys, Milford Sound, snow-capped 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, Russia—June 28–July 17.** Experience the magic spell of Lake Baikal, the "Sacred Sea of Siberia." We will be joining Russian environmentalists and national park personnel in trail and campsite restoration work. The world's deepest and most biologically significant body of fresh water, the lake is threatened by pollution. Boat explorations will complement shoreline visits to Buryat villages and museums, and by dayhikes on forested mountain trails. Collect memories of homestays, campouts, shamans, and legends. **Leader:** Cheryl Draves. **Price:** \$1,895 (12-15) / \$2,075 (11 or fewer). **Dep:** \$200. [94610]

**Kamchatka, Russia—July 25–August 6.** This two-part, naturalist-led getaway is to Kronotsky Park on the Kamchatkan Peninsula. The park's 2.5 million acres include 200 geysers and 22 volcanoes, and its forests are home to sable, bear, wolf, and lynx. We will first take excursions by helicopter to remote areas, then travel by foot and boat through the preserve, enjoying hot springs, fishing, volcano climbing, and wildlife-viewing. Accommodations are in bunkhouses and tents. **Leader:** Jerry Clegg. **Price:** \$2,230 (12-15) / \$2,505 (11 or fewer). **Dep:** \$200. [94625]

**Russia Through the Back Door—August 8–22.** We'll experience the dramatically different regions of Siberian and European Russia with a Russian geographer. We meet in Vladivostok and explore the region, visiting a marine reserve and a village farm. The fabled Trans-Siberian Railway transports us to Irkutsk and to Lake Baikal, famed for its remarkable environment. Finally, in Moscow, we will see it all, from the Kremlin to the lively Arbat bazaars. Accommodations include hotels, wilderness camping, and nights aboard a ship. **Leader:** Dolph Amster. **Price:** \$2,830 (12-15) / \$3,205 (11 or fewer). **Dep:** \$200. [94630]

## SERVICE



**C**OMBINE THE ENJOYMENT of a backcountry outing with doing something positive for the environment. Along with the work project, most Service Trips allow ample free time to enjoy the wilderness; some trips even include a short backpack after the work is done.

No previous work experience is required; if you are reasonably fit, sign up and we'll show you how it's done. The variety of tasks accommodates most levels of skill and stamina. Our work includes building and maintaining trails, repairing meadows, cleaning up debris, and helping archaeologists, among other worthwhile activities.

We endeavor to surprise people pleasantly with the food we serve. The staff on many trips includes a cook, and many cater to vegetarians.

Fees are lower than for other trips because Service Trips are subsidized by the National Outing Committee and by tax-deductible donations. For information on how to contribute to the program (other than by signing up for a trip), see page 129.

All service trips should be considered moderately strenuous unless otherwise indicated.

**Last Texas Frontier, Big Bend Park—March 6–12.** Conquistadores and Comanches, Texas Rangers, rustlers, and revolutionaries roamed this untamed wilderness. Brushing and rebuilding trail from our base camp along the Rio Grande will gentle some of that wild heart. *Leader: Harry Allan. Price: \$250. Dep: \$50. [94064]*

**Big Sur Trail Maintenance, Ventana Wilderness, California—March 25–April 2.** The rugged Ventana offers spectacular coastal views and an unsurpassed springtime wilderness

experience. Come help us maintain trails overgrown by dense chaparral. *Leader: Maura Eagan. Cook: Charlie Reimann. Price: \$260. Dep: \$50. [94065]*

**North Rim Trail Work, North Kaibab Forest, Grand Canyon, Arizona—April 4–13.** We'll hike into the Kanab Creek Wilderness Area in the remote western part of the Grand Canyon to repair trail on the esplanade, then explore fern grottoes, hidden waterfalls, and Anasazi art. *Leader: Debbie Northcutt. Cook: Jasmine Star. Price: \$325. Dep: \$50. [94066]*

**Santa Cruz Island Preserve, California—April 11–18.** Enjoy the beauty of spring on this Nature Conservancy island and help maintain a nature trail. We'll also work on a historic ranch and stay in nearby cabins. *Leader: Laurie-Ann Barbour. Cook: Rob Dorival. Price: \$325. Dep: \$50. [94300]*

**Buffalo River Trail Construction, Arkansas—April 17–23.** We'll help complete an important segment of the Buffalo River Hiking Trail, with time to enjoy Ozark hills-n-hollers, creeks and wildflowers, history and humor. No experience necessary. *Leader: W. E. "Bill" Rieckert, Jr. Price: \$210. Dep: \$50. [94067]*

**Redrock Trails, Broken Arrow Area, Coconino Forest, Arizona—April 17–23.** With its canyons, redrock formations, and forested mountains, this is a wilderness of unexcelled beauty. We will construct a new backpacking trail and still have ample time for dayhiking and photography. *Leaders: Pamela and Jerry Meyer. Price: \$245. Dep: \$50. [94068]*

**Return to the Escalante, Glen Canyon Recreation Area, Utah—April 17–23.** Experience the Coyote Gulch area of Escalante Canyon while stabilizing trails and controlling non-native flora on this moderate trip. Leisure time will be spent hiking between worksites and exploring the endless side canyons and alcoves. *Leaders: Cathy Underwood and Harry Allan. Price: \$255. Dep: \$50. [94069]*

**Historic Indian Trail Restoration, Nantahala Forest, North Carolina—April 23–30.** From base camp we'll restore an Indian trail that once connected Charleston, South Carolina, with

Chota, the historical capital of the Cherokee Nation. Enjoy bird migration, spring wildflowers, and never-logged Joyce Kilmer Memorial Forest. *Leaders: Vivian and Otto Spielbichler. Price: \$235. Dep: \$50. [94070]*

**Springtime Arches, Arches Park, Utah—April 24–30.** Chuckwagon cooking and wranglers to do it mean hard work without hardship. Redrock trail maintenance, fence-building, and exotic-vegetation removal are our goals on this springtime trip. Challenges for beginners and veterans. *Leader: Linda Thibodeaux. Price: \$245. Dep: \$50. [94071]*

**Ring the Canyon, Chaco Culture Historical Park, New Mexico—May 1–7.** Enjoy six moderately strenuous days of desert landscape, camaraderie, and Indian archaeology while building three-strand fence along the park's new boundary. You'll have every afternoon off to explore. *Leader: Mike Kobar. Price: \$245. Dep: \$50. [94072]*

**Chaco Canyon Archaeology, Chaco Culture Historical Park, New Mexico—May 8–14.** Revegetation and ruin-preservation projects will keep us busy in this mysterious canyon, famed for its extensive Anasazi ruins. At 6,500 feet, this will be a moderately strenuous trip. *Leader: Barbara S. Gooch. Price: \$250. Dep: \$50. [94073]*

**North Country Scenic Trail, Ohio—May 8–14.** Help reach the goal of 2,000 completed trail miles by the year 2000! This segment of the planned New York-to-North Dakota trail follows the Buckeye Trail in Wayne National Forest. Fish, hike, paddle, and swim on our day off. *Leader: Joe Gotler. Price: \$225. Dep: \$50. [94074]*





ROB LLEWIS



MARK S. LINDEN



JENNIFER HANCOCK/STRIKE IMAGES

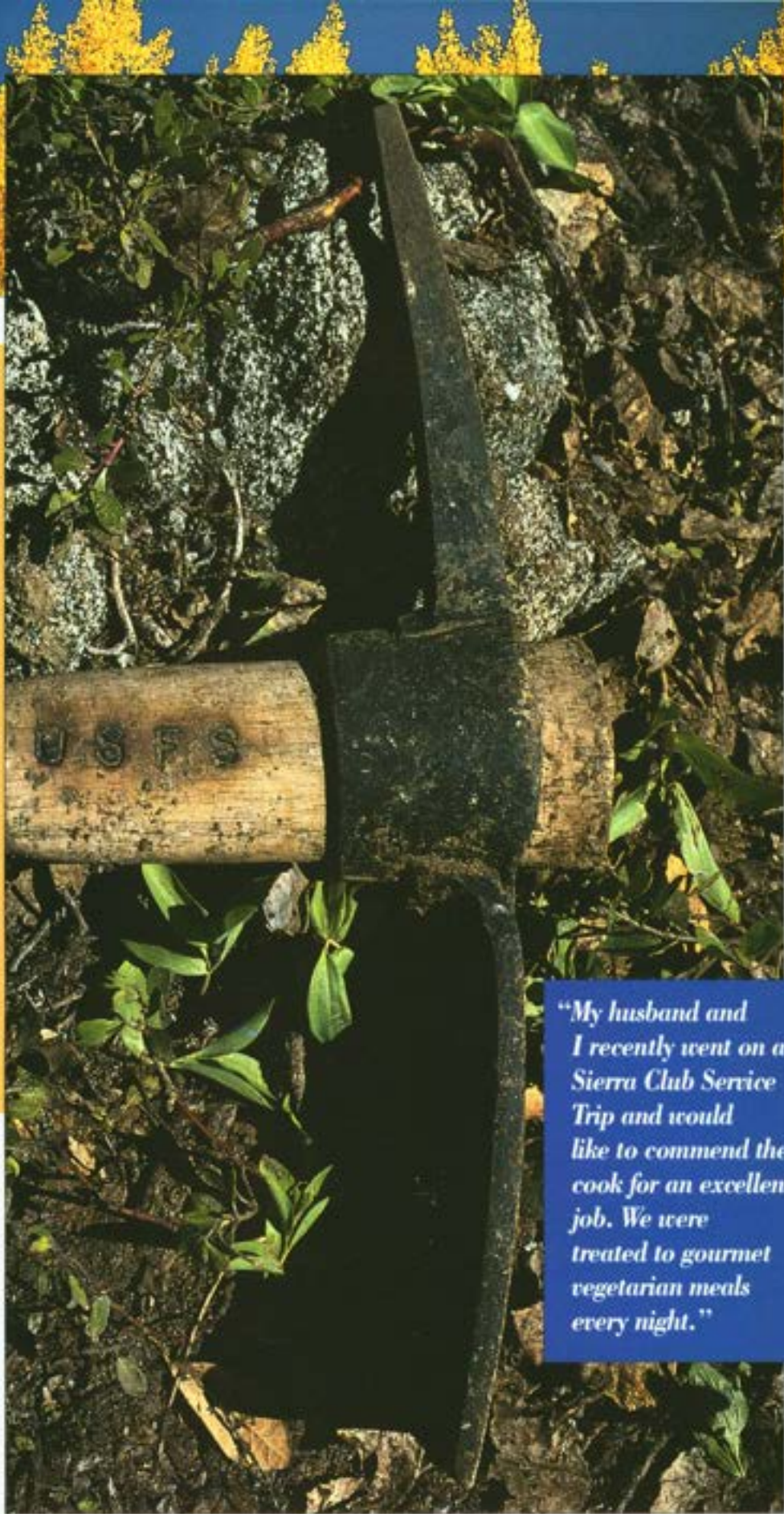
Clockwise from top: aspen trees, Colorado; Marble Mountain Wilderness, California; blue columbine; Wind River Range, Wyoming.

**Tusayan Trails, Grand Canyon, Arizona—May 22–28.**

Work on the Arizona Trail amid ponderosa pine and enjoy views of the Grand Canyon. We'll have time to hike and photograph the area from our base camp at historic Hull's Cabin. *Leader: Linda Takala. Price: \$230; Dep: \$50 [94075]*

**Blue Range Trail Project, Apache Forest, Arizona—June 11–18.**

We will be rebuilding a trail in one of the lush canyons east of Hannagan Meadow (9,000 feet). There will be ample time to explore and photograph



*“My husband and I recently went on a Sierra Club Service Trip and would like to commend the cook for an excellent job. We were treated to gourmet vegetarian meals every night.”*

STEVE LITWAK

## SERVICE

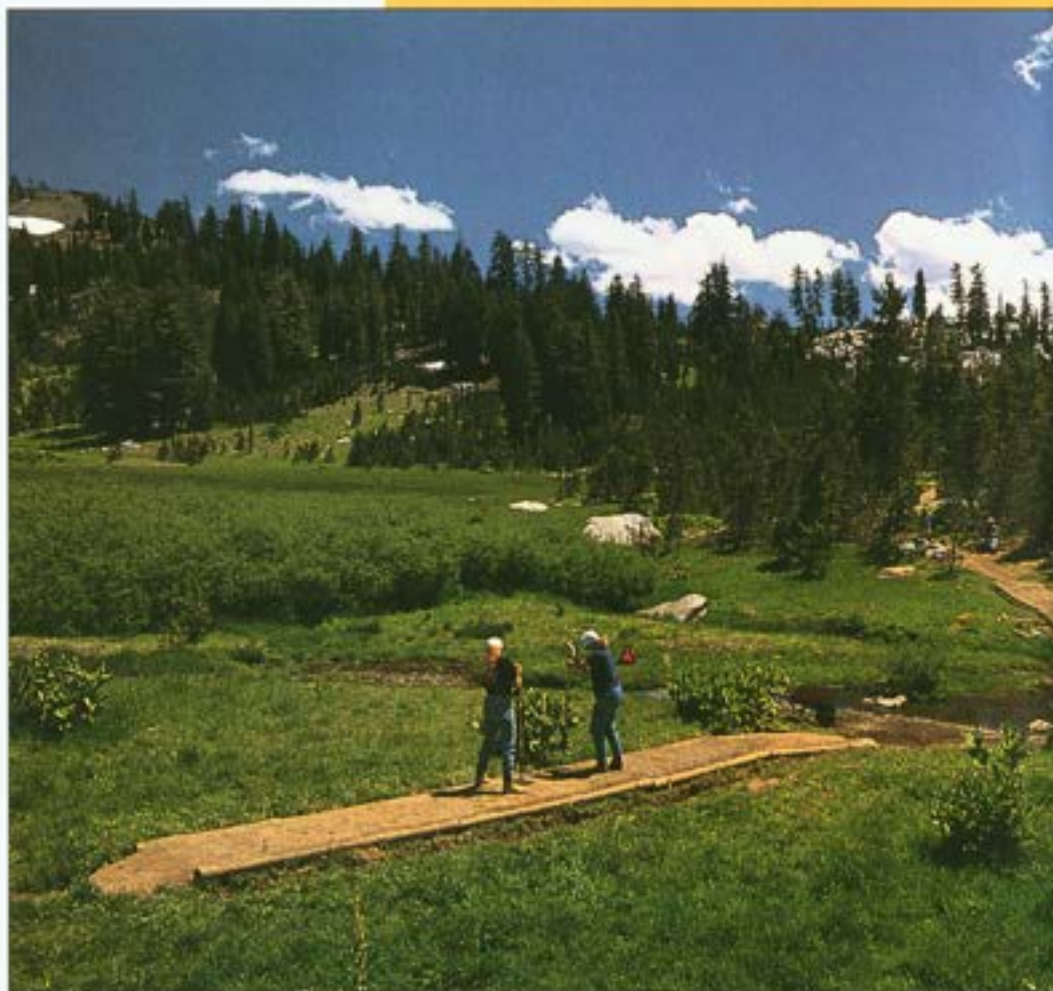
some of the rugged canyons and ridges that characterize the Blue River area of eastern Arizona. *Leader: Rod Ricker. Price: \$235; Dep: \$50. [94301]*

**Backcountry Archaeological Research, Chaco Canyon, New Mexico—June 11–20.** Northwest of Albuquerque are the stone structures and pottery remains of an ancient society. In the "outback," documentation and stabilization of a prehistoric site are the purposes of this research project. *Leader: Bonnie Sharpe. Price: \$365; Dep: \$50. [94302]*

**Abbey's Wall: The Sequel, Bryce Canyon Park, Utah—June 12–18.** "I'd join the Devil and my worst enemy to keep one cow out of anywhere!" (G.R., Oregon). New venue; familiar challenge: fence it! Bring heavyweight gloves and lighthearted humor. *Leader: Susan Estes. Price: \$250; Dep: \$50. [94303]*

**Chaco Canyon Archaeology, Chaco Culture Historical Park, New Mexico—June 18–24.** Chaco Canyon is the beautiful, mysterious location of hundreds of archaeological sites, from tiny granaries to monumental pueblos. Join us as we assist the Park Service in various tasks to protect Chaco's fragile resources. *Leader: R. Reid Earls II. Price: \$245; Dep: \$50. [94304]*

**Allagash Wilderness Waterway Restoration, Maine—June 18–26.** Enjoy this remote area by canoe while assisting



waterway staff in erosion control and site restoration. Lay over at spectacular Allagash Falls to explore and relax. Some canoeing experience required. Canoe rental not included. (Grade B) *Leader: Doug Palmer. Price: \$380; Dep: \$50. [94305]*

**Acadia Park, Maine—June 19–25.** Join us for work and play in this picturesque coastal park. We will work on the park's trails and carriage roads. On free days,

we'll explore beautiful and varied Mt. Desert Island by bicycle, foot, and canoe. *Leader: Gale Maleskey. Price: \$175; Dep: \$50. [94306]*

**Paria Canyon Production, Vermillion Cliffs Wilderness Area, Utah and Arizona—June 19–25.** The wild and spectacular Paria River Canyon provides the best of desert hiking! We'll do trail stabilization and smaller projects as we backpack from White House Trailhead to Lees Ferry. *Leader: Sandy Wilson. Price: \$250; Dep: \$50. [94307]*

**Dark Canyon, Manti-La Sal Forest, Utah—June 19–26.** Anasazi ruins and multicolored canyon walls set the scene in the transition zone between high desert and forest. We'll repair trails in this land of ponderosa pines, cacti, black bears, and hawks. *Leader: David Simon. Cook: Honor Cuthbertson. Price: \$275; Dep: \$50. [94308]*

**Archaeological Research, Aztec Monument, New Mexico—June 22–July 1.** The distinctive architecture and pottery of Aztec National Monument is related to the culture of Chaco Canyon. We'll document and test prehistoric rooms on this research project. *Leader: Bonnie Sharpe. Price: \$365; Dep: \$50. [94309]*

**Chaco Canyon Archaeology, Chaco Culture Historical Park, New Mexico—June 25–July 2.** On this moderately strenuous trip we'll continue fencing, revegetation, and other maintenance projects against the backdrop of mysterious Anasazi ruins, located three hours northwest of Albuquerque at an altitude of 6,175 feet. *Leader: Ann Harding. Price: \$265; Dep: \$50. [94310]*

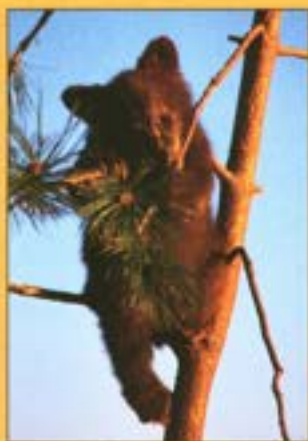
**Queer Lake Trail Maintenance, Adirondack Forest Preserve, New York—July 3–9.** In the largest park in the "Lower 48,"

## DOCTORS WANTED ON SERVICE TRIPS

A small number of service trips have doctors on staff. Doctors on these trips donate their time and skills for a waiver of the trip fee.

Service trip leaders have advanced first-aid training, and each outing is equipped with a first-aid kit. Our accident record on service trips has been very good, but when trip size allows we do 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. Space in this program is very limited, so write early!



Left to right: Pacific Crest Trail, Tahoe National Forest, Sierra; black bear, Ansel Adams Wilderness, Sierra.

**Cottonwood Point Wilderness, Arizona Archaeology—July 9–16.** Discover and document ancient Anasazi rock art in the spectacularly beautiful Vermilion Cliff's Cottonwood Point Wilderness area. Camp nearby under ponderosa pines. Rugged individuals with artistic skills wanted! *Leader: Marjette Trotter.* Price: \$240; Dep: \$50 [94314]

**Ukonom Lake, Marble Mountain Wilderness, California—July 9–19.** Hike in biologically

diverse ancient forests, home of the spotted owl. We'll camp at subalpine, trout-filled Ukonom Lake, rebuild trail, and have time to swim, fish, and relax. *Leaders: Becky Blythe and Peter Littman.* Price: \$245; Dep: \$50 [94315]

**Dark Divide and Mount St. Helens, Gifford Pinchot Wilderness, Washington—July 11–21.** 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 of Mount St. Helens. *Leader: Wally Mah.* Price: \$275; Dep: \$50 [94316]

**Granite Lake, Trinity Alps, California—July 12–22.** Connoisseurs of scenery, Dutch-oven cooking, and well-built causeways can experience the best. Granite Lake and Gibson's Meadow are two possible off-day destinations. *Leader: Peter Petersen.* *Cook: Gretchen Muller.* Price: \$275; Dep: \$50 [94317]

**Wind Rivers West Side, Bridger Wilderness, Wyoming—July 13–23.** In the cool, high elevations of the Bridger-Teton National Forest, we'll reconstruct

we'll clear trails and renovate the lean-to at our base camp. We'll work every day with afternoons off. This is a strenuous trip. *Leader: Richard Grayson.* Price: \$230; Dep: \$50 [94311]

**Women's Trip, Russian Wilderness, Klamath Forest, California—July 6–16.** We're returning to extend last year's trail reconstruction. The work will be strenuous, but we welcome beginning backpackers. We'll camp amid mountain lakes and wildflowers, where many dayhike opportunities await. *Leaders: Maura Eagan and Didi Toaspern.* Price: \$275; Dep: \$50 [94312]

**Sheep Creek Trail, Pike Forest, Colorado—July 7–17.** We'll be among 14,000-foot peaks, reconstructing a critical missing link of a previously abandoned trail. We'll work and camp above 10,000 feet in the scenic Mosquito Range. *Leader: Kate Painter.* Price: \$275; Dep: \$50 [94313]

## SOUTHERN APPALACHIAN HIGHLANDS



Extending from Pennsylvania's Alleghenies in the north to Red Mountain in Alabama, the Southern Appalachian Highlands is one of the world's most biologically diverse temperate regions, rivaled only by the temperate forests of Southeast Asia for botanical richness and variety. The region has paid a steep price for its popularity,

however. Intensive recreational use, logging, development, pollution, and sprawl are tearing at the ecological fabric that supports life in the region. Many state parks have been so overdeveloped they can no longer support native plants and animals. Once legendary Shenandoah vistas are marred by smog, acid rain is destroying trees and poisoning streams, and resources are pressed to the limit by the highly consumptive suburban lifestyle.

Sierra Club activists have identified the following objectives as key to turning back these threats to the ecoregion: lobbying the U.S. Forest Service to implement an ecosystem management approach on national-forest lands; creating habitat corridors for free migration of species; pushing state agencies to institute cost-effective conservation and utility measures; establishing an interstate agreement to reduce air pollution; and implementing model alternative transportation programs. You can support these efforts by joining a Sierra Club Outing and getting acquainted with the region and its issues. Check the Backpack, Base Camp, Bicycle, and Service sections for outings in this ecoregion.

## SERVICE

and reroute eroded trails. Mountain meadows and fly-fishing streams and lakes beckon on our days off. *Leader: Jan Moraczewski. Price: \$275; Dep: \$50. [94318]*

**Boundary Waters Canoe Area Wilderness Campsite Maintenance, Superior Forest, Minnesota—July 17–23.** We'll paddle our canoes over clear wilderness lakes to our remote base camp. Each day we'll paddle to campsites needing rehab work. After work, we'll swim, fish, or just relax. Canoe rental not included. (Grade B) *Leader: Bill Sheppard. Price: \$290; Dep: \$50. [94319]*

**Monument Lake, Marble Mountain Wilderness, Klammath Forest, California—July 17–27.** Help finish reconstructing the trail to lovely Monument Lake (5,800 feet). We'll camp nearby and revel in satisfying work, savory Dutch-oven cooking, scenic dayhikes, swimming, fishing, and good company. *Leader: Cindy Miles. Cook: Maggie McLaughlin. Price: \$245; Dep: \$50. [94320]*

**Anderson Lodge Restoration, Shoshone Forest, Wyoming—July 19–29.** Finish restoring a historic log cabin among lush meadows and 12,000-foot peaks. Carpentry skills helpful. On free days, wildlife watching and views of Yellowstone's backcountry. *Leader: Conrad Smith. Cook: Eric These. Price: \$275; Dep: \$50. [94322]*

**Navajo Lake, Lizard Head Wilderness, Colorado—July 20–30.** Just outside historic Telluride, we'll encounter spectacular vistas and sprawling alpine meadows during a rugged five-mile backpack to our 11,000-foot base camp. We'll work on trails and campsites beneath nearby 14,000-foot peaks. *Leader: Jan Ketelle. Cook: Karen Hunt. Price: \$275; Dep: \$50. [94323]*

**Rolling Creek, Lost Creek Wilderness, Colorado—July 21–31.** Clear streams, high mea-



dows, and 12,000-foot peaks surround our base camp and the trails we'll maintain. On free days, we can explore peaks, photograph wildlife, or relax among wildflowers. *Leader: Tim Stebler. Price: \$245; Dep: \$50. [94324]*

**Kluane Park Preserve, Yukon Territory, Canada—July 23–30.** With Mt. Logan (16,649 feet) and the St. Elias range as a backdrop, we'll build new trail. On leisure days we'll hike the Yukon wilderness of Robert Service and Jack London fame. *Leader: Judith Harper. Price: \$375; Dep: \$50. [94325]*

**Virgin River Rim Trail, Dixie Forest, Utah—July 24–30.** From our base camp of 8,500 feet in the company of coyotes and towering pines, we'll return to complete this new hiking trail on the rim of the Virgin River Canyon. Free time can be spent hiking the area's diverse canyons. *Leaders: Pam and Jerry Meyer. Price: \$255; Dep: \$50. [94326]*

**Eagle Cap Wilderness, Wallowa-Whitman Forest, Oregon—July 24–August 3.** Enjoy this oasis of alpine lakes in the northeastern Oregon desert. We'll hike six miles, gaining 2,000 feet, to our camp at 7,400 feet, near the most scenic areas of the wilderness. *Leader: John*

*Anderson. Cook: E. B. Dalton. Price: \$275; Dep: \$50. [94327]*

**Never Summer Wilderness Plane Wreck Cleanup, Rocky Mountain Park, Colorado—July 25–August 4.** Join us as we remove wreckage of an F-4 fighter from high slopes in the isolated Never Summer Wilderness. On days off we'll explore this uniquely beautiful, seldom-visited area. *Leader: Bruce Horn. Cook: John Utzpis. Price: \$245; Dep: \$50. [94328]*

**Cloud Peak, Bighorn Forest, Wyoming—July 27–August 6.** Help protect the fragile alpine ecosystem beneath 13,167-foot Cloud Peak. When we're not working on the trail, our base camp offers abundant wildflowers, great fishing, and panoramas of the Bighorns. *Leader: Neil Miller. Cook: Richard Garner. Price: \$275; Dep: \$50. [94329]*

**Pine Creek, Inyo Forest, Sierra—July 30–August 5.** High granite peaks surround us in the John Muir Wilderness. After a five-mile hike to our base camp at 9,000 feet, we'll repair trails near glacial lakes and alpine meadows. *Leader: Dan Brady. Cook: Honor Culbertson. Price: \$275; Dep: \$50. [94330]*

**Sangre de Cristo Wilderness, Colorado—July 30–August 6.** We'll work on trails during this

*Clockwise from above: Canyonlands National Park, Utah; Mt. Katahdin, Maine; beech maple forest, Ohio.*

part-car-camp, part-backpack trip in a brand-new wilderness area. Nature study will be featured, the leader is a naturalist. *Leader: Jim McPherson. Cook: John Harbison. Price: \$275; Dep: \$50. [94331]*

**White Mountain Trail Rehabilitation, White Mountain Forest, New Hampshire—July 31–August 6.** Great views and ample swimming holes await the summer trail-maintenance crew. Work and camp in wilderness areas in the shadow of Mt. Washington and the Presidential Range. *Leader: Jeffrey D. Knoop. Price: \$240; Dep: \$50. [94332]*

**Wind River Range, Popo Agie Wilderness, Bridger-Teton Forest, Wyoming—August 1–11.** Start getting in shape for a 14-mile hike to our trail maintenance project above 10,000 feet. We'll enjoy spectacular, remote high country near the Continental Divide. *Strenuous. Leader: Richard Weinapple. Cook: Jerry Turner. Price: \$275; Dep: \$50. [94333]*

**Seven Devils Mountains, Hells Canyon Wilderness, Idaho—August 2–12.** Come frolic with



sheep and elk. Join us to build switchbacks and relocate a stretch of trail near Grizzly Lake. *Leader: Mike Wagner. Price: \$275; Dep: \$50. [94336]*

**Big Moose Trail Maintenance, Adirondack Park, New York—August 7–13.** Strenuous work in the remote Pigeon Lake Wilderness maintaining trails to Russian, Gull, and Sister lakes. Hard work, fun, solitude, companionship, good food, and a loon's chorus every night. *Leader: Mike Kernahan. Price: \$270; Dep: \$50. [94337]*

**Northwest Mountain-Forest Experience, Western Cascade Mountains, Oregon—August 7–14.** Our drive-in base camp at Lake Timpanogas adjoins the spectacular Willamette River headwaters. Our trail construction project, in old-growth forest, starts near our camp. Leisurely. *Leader: Jean Ridone. Price: \$275; Dep: \$50. [94338]*

**Strathcona Park, Vancouver Island, British Columbia, Canada—August 9–19.** Experience majestic Strathcona Park's Forbidden Plateau, a subalpine area of lakes and virgin old growth. We'll camp by Kwai Lake to assist with revegetation, trail maintenance, and seed collection. *Leader: Roy Redford. Cook: Charlie Reimann. Price: \$325; Dep: \$50. [94339]*

**Tuolumne Meadows, Yosemite Park, Sierra—August 10–21.** Our revegetation of no-longer-needed trails will help restore the fragile alpine ecosystem at 9,000 feet. Work and play hard amid Yosemite's granite spires and domes, glaciated canyons, and sapphire lakes. *Leader: TBA. Cook: Matteo d'Tomasso. Price: \$275; Dep: \$50. [94341]*

**Zirkel Wilderness Beginners' Trip, Colorado—August 11–20.** We'll repair trail along the Continental Divide in north-central Colorado. This trip is designed for the less experienced backpacker looking for a challenge. Llamas will help us pack in. *Leader: Steve Lachman. Cook: Susan Carrell. Price: \$245; Dep: \$50. [94342]*

**Sierra Club's Own Trail, Sierra Forest, Sierra—August 11–21.** Continue a ten-year Club tradition of trail maintenance at 11,000 feet on our adopted trail. Relax and contemplate the wonders of the Range of Light, or swim, climb, or scramble cross-country. *Leader: Michael Tharp. Price: \$245; Dep: \$50. [94343]*

**Salmon River Archaeology, Idaho—August 13–20.** From our primitive camp by the Salmon river, we will work with the BLM to build fences, survey, map, and inventory prehistoric/historic sites and stabilize eroded banks containing artifacts. Strenuous. *Leader: Ann Harding. Price: \$295; Dep: \$50. [94344]*

**Greenland Gap Preserve, Grant County, West Virginia—August 14–20.** Steep, wooded terrain and cliffs created by water erosion characterize this moun-

## TAX-DEDUCTIBLE DONATIONS NEEDED TO SUPPORT SERVICE TRIPS

The Service Trips Program is one of the most important ways in which the Sierra Club cares for our cherished natural resources. Dedicated, hard-working trip members 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 priced well below our costs to run them; the difference is made up in part by donations from individuals and corporations. 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. Even if you can't join us in the wilderness, please join us by offering your financial support.

Your donation will be more than matched by the time and energy your fellow Club members spend 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.

us among the Seven Devils! Along with some rewarding work, we'll play amid craggy peaks, relax by sparkling lakes, and enjoy excellent food and companionship. *Leader: Christ Raunig. Cook: Bill Hallagan. Price: \$275; Dep: \$50. [94334]*

**Ball Lakes, Panhandle Forest, Idaho—August 6–16.** Trail reconstruction in the heart of the steep Selkirk, Idaho's last refuge for mountain caribou and grizzly bears. Plenty of trout-fishing and peak-scrambling from our campsite at 6,500 feet. *Leaders: Peter Littman and Becky Blythe. Price: \$245; Dep: \$50. [94335]*

**Grizzly Lake, Collegiate Peaks Wilderness, Colorado—August 6–16.** Our campsite below Grizzly Peak (13,986 feet) is in an area frequented by bighorn

## SERVICE

tain gap. Trail-building, natural-ist-led discussions, hiking, and photography are all planned at this Nature Conservancy Preserve. Private-land campground. *Leader: Sarah Stout. Price: \$190; Dep: \$50. [94345]*

**Mystic Lake, Mt. Rainier Park, Washington—August 15–25.** From a roadhead base camp in the park, we'll work and play in a magnificent, rugged area. On free days we'll explore water-



falls, wildflowers, glaciers, and the mountain. *Leader: Kathryn Hannay. Cook: Nelson Meade. Price: \$275; Dep: \$50. [94346]*

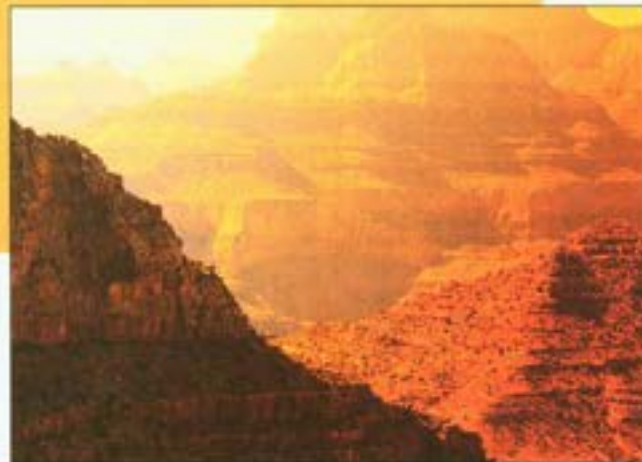
**Lake Superior Trail Maintenance, Isle Royale Park, Michigan—August 16–26.** We may hear wolves if we're lucky. Fox, we might actually see. Moose? Definitely. Is the aurora borealis on your vacation agenda? Gil-chee Gumee's got it. Hard work, good food. *Leader: Joe Gottler. Price: \$385; Dep: \$50. [94347]*

**Capitol Peak, Maroon Bells-Snowmass Wilderness, Colorado—August 17–27.** A six-mile hike brings us to Capitol Lake (11,600 feet), where we'll reroute a flooded trail. Our timberline campsite amid 14,000-foot peaks promises breathtaking views and great dayhikes. *Leader: Gary Goldenberg. Cook: Honor Cuthbertson. Price: \$275; Dep: \$50. [94348]*

**Crater Lake Park Revegetation Project, Oregon—August 20–28.** Join us in revegetating fragile meadows near the gorgeous blue waters of Crater Lake. On days off, we'll enjoy this volcanic wonder in Oregon's only national park. *Leader: Mary Grisco. Cook: Gail Perkins. Price: \$275; Dep: \$50. [94349]*

**High Uintas, Uintas Forest, Utah—August 22–September 1.** A rehabilitation project will

Clockwise from left, Marble Mountain Wilderness, California; Virginia bluebells; Grand Canyon, Arizona.



help maintain the trail system through the Uintas' highest recesses. Our base camp at 10,000 feet offers fishing, peak-bagging, and superb mountain vistas. *Leader: Randy Setchell. Cook: Jim Klein. Price: \$275; Dep: \$50. [94350]*

**Huckleberry Ridge, Teton Wilderness, Bridger-Teton Forest, Wyoming—August 23–September 2.** Enjoy gorgeous views of the Teton and a multitude of wildflowers while



*Honor Cuthbertson. Price: \$325; Dep: \$50. [94352]*

**Lake Constance Revegetation, Olympic Park, Washington—September 8–16.** Old-growth forests, wild rivers, glaciated peaks, elk, bears, deer, marmots, huckleberries, and fishing. Base-camp by famed Lake Constance high in the Olympics and replant fragile subalpine areas. *Leader: John Sherman. Cook: Deborah Northcutt. Price: \$225; Dep: \$50. [94353]*

**Autumn in the Ruby Mountain Wilderness, Nevada—September 8–18.** Aspens will be golden as we work on trails in this lofty and isolated gem of a wilderness. Nature study will be a special feature; the leader is a naturalist. *Leader: Jim McPherson. Cook: Paul Laverty. Price: \$275; Dep: \$50. [94354]*

helping to restore wilderness areas. Trail work and the removal of a wildlife enclosure at 9,100 feet are planned. *Leader: Dan Brady. Cook: Mark Winn. Price: \$275; Dep: \$50. [94351]*

**Glacier Park, Montana—August 30–September 8.** We'll revel in fall colors as we repair trail in a North Fork region of mixed-growth forest. In free time, fish in a magnificent wilderness lake. Beginners welcome. *Leader: Michelle Plotkin. Cook:*

**Baxter Park Autumn Trail Maintenance, Maine—September 10–17.** We'll maintain trails from our base camp at Kidney Pond. Trip features include early fall colors, moun-



taintop views, and abundant wildlife (moose, loons, osprey). Opportunity to canoe, and climb Mt. Katahdin, Maine's highest peak. *Leader: Mike Kaiser. Price: \$275; Dep: \$50. [94355]*

**Cape Cod Seashore, Massachusetts—September 10–17.** We will maintain trail or boardwalks, stabilize dunes, or rehabilitate cranberry bogs. In free time we'll visit Monomoy Island, hike, bike, and explore, while savoring this charming vacation spot off-season. *Leader: Betty M. Coutts. Price: \$325; Dep: \$50. [94356]*

**Chaco Canyon Archaeology, Chaco Culture Historical Park, New Mexico—September 11–17.** Become part of the Chaco phenomenon. Conservation of cultural and natural resources remains the focus of this arduous trip. Projects vary from trail maintenance to archaeological site identification and preservation. *Leader: Barbara S. Gooch. Price: \$265; Dep: \$50. [94357]*

**Chiricahua Wilderness, Coronado Forest, Arizona—September 11–22.** Join us for mild-

weather trail work at moderate elevations in these rugged "islands in the sky," home to coatimundi and trogon. We'll encounter five ecological zones during our stay. *Leader: Sherri Serna. Cook: Susan Wilson. Price: \$245; Dep: \$50. [94358]*

**North Rim Trail Construction, Grand Canyon Park, Arizona—September 12–21.** We'll continue building new trail above Tapeats Amphitheater with spectacular views of the canyon. After the work project we'll hike down to Deer Creek and the Colorado River. Very strenuous. *Leader: Tim Wernette. Cook: Charlie Reimann. Price: \$300; Dep: \$50. [94359]*

**The Enigma of the Towers, Hovenweep Monument, Colorado—September 18–24.** Drought-withered fields surrounded the enigmatic towers of this Anasazi community abandoned in the 12th century. Our return lets us work and wonder at the links between agriculture, astronomy, and architecture. *Leader: Susan Estes. Price: \$265; Dep: \$50. [94360]*

**Bridges of the Spirits, Natural Bridges Monument, Utah—September 25–October 1.** Immense and fragile, remote and spiritual, Natural Bridges vaults from the Ancient Ones to the now. One week to mend trails for a lifetime of memories. Beginners and veterans alike welcome. *Leader: Linda Thibodeaux. Price: \$265; Dep: \$50. [94361]*

**Death Hollow Re-Naturalization, Utah—September 25–October 1.** Take in autumn's arrival in canyon country while camping in natural alcoves and working to reduce evidence of impact from previous visitors. Possibility of natural bridges and swimming holes. Enjoy Navajo sandstone territory on this moderate trip. *Leaders: Cathy Underwood and Harry Allan. Price: \$265; Dep: \$50. [94363]*

**Hawk Mountain Sanctuary, Kittatinny Ridge, Appalachian Mountains, Pennsylvania—September 25–October 1.** Enjoy the autumn migration of several varieties of raptors while we do various tasks for the sanctuary. During free time, hike the Appalachian Trail or watch hawks soaring overhead. *Leader: Betty M. Coutts. Price: \$235; Dep: \$50. [94364]*

**Sleepy Hollow Trail Crew, Catskill Park, New York—October 1–8.** The northeastern edge of the Catskills is a dramatic escarpment featuring panoramic cliff-top views. We'll repair trail near our backcountry base camp as the foliage changes color. Backpacking experience required. *Leader: Kevin Karl. Price: \$200; Dep: \$50. [94365]*

**Red River Gorge Trail Repair, Daniel Boone Forest, Kentucky—October 2–8.** 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: \$220; Dep: \$50. [94366]*

**Return to Needles, Canyonlands Park, Utah—October 2–8.** A major revegetation project will be our focus in this country of startling landscapes—

sculptured rock spires, arches, canyons, and traces of the ancient Anasazi. High spirits and energy welcome. *Leader: Sandy Wilson. Price: \$265; Dep: \$50. [94367]*

**Autumn Trail Maintenance, Buffalo River, Arkansas—October 9–15.** Early Ozark autumn—mild sunny days, cool nights, late wildflowers, early color. We'll rebuild trails, working from a roadhead base camp, with time to explore hills, hollows, and the river. *Leader: Kate Cunningham. Price: \$210; Dep: \$50. [94368]*

**From Pokomoke to Assateague Island, Maryland's Eastern Shore—October 9–15.** Hike and canoe in the Nature Conservancy's Nassawango Creek Preserve as we clear trails and waterways. Work on archaeological digs at Furnace Town Historic Site. Explore Assateague Island. *Leader: Bill Carroll. Price: \$240; Dep: \$50. [94369]*

**Return to Autumnal Arches, Arches Park, Utah—October 9–15.** Enjoy autumn desert landscape and slickrock sculpture while assisting with trail maintenance and exotic plant removal. We'll have one day off to explore the 6,000-foot home of Edward Abbey's "Desert Solitaire." *Leader: Mike Kobar. Price: \$260; Dep: \$50. [94370]*

**Santa Cruz Island Preserve, California—October 20–28.** Enjoy autumn on this beautiful island as we work with the Nature Conservancy on a to-be-determined project. In your free time, explore mountains, beaches, and the historic ranch. *Leader: Chuck Margaj. Price: \$325; Dep: \$50. [94371]*

**Santa Rosa Island, Channel Islands Park, California—October 21–28.** A four-hour boat ride takes us to Santa Rosa Island off the Southern California coast. We'll restore the wilderness, see ocean and land flora and fauna, and enjoy solitude. *Leader: Janie Grussing. Cook: Fran Parker. Price: \$325; Dep: \$50. [94372]*

**Note: See Alaska, Family, Hawaii, and International for other service trips.**

## SKI

Top, maple leaves, Yosemite Park, Sierra; inset, great horned owl, Tahoe National Forest, Sierra.



AMPHIBIAN



**U**NDER A CARPET OF SNOW, wilderness acquires a beauty and solitude unique to winter. The special sights and sounds of winter are yours to enjoy on a cross-country ski excursion with the Sierra Club. After a vigorous day of skiing, participants return to the cozy warmth of a lodge or cabin for food and fun.

Trips vary in difficulty from those suitable for beginners to those requiring some ski-touring experience.

#### High Sierra Skiing I—January 30–February 4.

Enjoy Nordic ski lessons and tours while staying at the Sierra Club's own Clair Tappaan Lodge. Develop and improve skiing skills—diagonal stride, Telemarking, ski-skating, and other techniques—in an area of heavy snowfall. You'll also enjoy warm accommodations, camaraderie with Club members, good food, a hot tub, and other amenities. Your leader is a certified ski instructor.

Leader: Herb Holden. Price: \$390; Dep: \$50. [94424]

#### Sugarcamp Ski, Northwestern Minnesota—January 31–February 4.

Cross-country skiing and other winter pleasures await skiers of all ages and abilities at this old maple-sugaring site. Wander through the woods on short-to-moderate loops of groomed trail, or try snowshoeing, ice-skating, and ice-fishing. Then retire to the rustic comforts of the main lodge—outdoor hot tub, saunas, bottomless cookie jars. Suitable for beginners and families. Leader: Sarah Reinke. Price: \$600; Dep: \$100. [94425]

#### Superior Ski Trails, Boundary Waters Canoe Area Wilderness, Minnesota—February

7–11. Escape to the quiet of the Northwoods snow country on groomed and tracked trails that wander 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, track a wild moose, and relax in the sauna. Snowshoeing, ice-skating, and broomball too! Leader: Faye Sitzman. Price: \$590; Dep: \$100. [94426]

#### High Sierra Skiing II—February 27–March 4.

See description for trip #94424 above. Leader: Herb Holden. Price: \$390; Dep: \$50. [94427]

#### Spring Skiing in the Sierra—April 17–22.

This popular trip offers corn snow, Telemarking, Nordic downhill, and backcountry. It's all here at the Sierra Club's Clair Tappaan Lodge near Donner Pass, where the average snowfall is the highest in the Sierra Nevada. There will be daily lessons, and tours to Castle Peak, Crow's Nest, and German Ridge led by a certified ski instructor. Enjoy great food, warm accommodations, and a hot tub! Leader: Herb Holden. Price: \$390; Dep: \$50. [94428]



AMPHIBIAN



# WATER

DEAN WIND-JAMES MACEY



**W**HETHER THRILLING TO THE RAPIDS OF the Colorado or paddling through a tranquil mangrove thicket in the Okefenokee, traveling by water is 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 or kayak or raft, there are usually opportunities for side hikes or swimming.

Trips are scheduled throughout the year in many parts of the country, and accommodate a wide range of ability and vacation schedules.

On most trips you will be expected to help with camp chores and cooking, while on others many of these tasks are taken care of by the trip staff. Equipment rental is included on some trips, and not on others. Be sure to read the detailed trip brochure before signing up.

## 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.

Canoe rental is not included in trip fee unless otherwise indicated.

**Everglades Park, Florida—February 20–25.** 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. (Grade B) *Leaders: Vivian and Otto Spielbichler. Price: \$250; Dep: \$50. [94077]*

**Canoeing Okefenokee Swamp, Georgia—March 20–25.** 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. This trip is for canoeists of all ages who enjoy birding, animal-watching, and

**Tiger Wall, Yampa River, Dinosaur National Monument, Utah.**



*"It was ironic — we felt so small compared to the grandeur around us, but being part of the group made each of us feel special."*



Left to right: mallard duck; Colorado River, Utah; green tree frog on iris, Florida.



photography. (Grade B) Leaders: Vivian and Otto Spielbichler. Price: \$310, Dep: \$50. [94078]

**Okefenokee Wildlife Refuge Family Trip, Georgia—March 27–April 1.** See page 109 for details. Leader: Marty Joyce. Price: adult \$320, child \$215, Dep: \$50. [94057]

**Spring Fever, Boundary Waters Canoe Area, Minnesota-Ontario Border—May 22–28.** Paddle and portage in the Northwoods while fishing is at its peak. 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. Get a taste of summer at the end of spring. (Grade B) Leader: Joanne Broady. Price: \$480, Dep: \$50. [94079]

**Allagash Service Trip, Maine—June 18–26.** See page 126 for details. (Grade B) Leader: Doug Palmer. Price: \$380, Dep: \$50. [94305]

**The Wide Missouri, Montana—July 9–16.** Away, we're bound away, down the wide Missouri. Redolent of the history of the Blackfeet and the Assiniboin, trappers and traders, Lewis and Clark, and steamboats opening the West, the upper Missouri makes its way through the uplifted plains at the foot of the Rockies. From Ft. Benton we will paddle our canoes over 150 miles of wild and scenic river, stopping to explore natural bridges and arches, archaeological sites, and a surprise or two. Canoe rental included. (Grade A) Leader: Chuck Schultz. Price: \$770, Dep: \$100. [94373]

**Boundary Waters Canoe Area Wilderness Campsite Maintenance, Superior Forest, Minnesota—July 17–23.** See page 128 for details. (Grade B) Leader: Bill Sheppard. Price: \$290, Dep: \$50. [94319]

**Algonquin Park, Ontario, Canada—July 18–28.** Our eleven-day voyage in Algonquin Provincial Park will take us through a land of interconnecting lakes and streams considered one of the world's finest canoeing areas. Along with challenging days of portaging and paddling through the wilderness, we'll hear the laughter of the loon, pass lumbering moose, and perhaps hear the howl of the wolf while sitting by the evening campfire. (Grade B) Leaders: Irwin Rosman and Sally Daly. Price: \$620, Dep: \$100. [94374]

**Gates of the Arctic Park, Alaska—July 31–August 12.** See page 81 for details. Leader: Bette McCarron. Price: \$2,695, Dep: \$200. [94121]

**Summer's End in the Northwoods, Boundary Waters Canoe Area Wilderness, Min-**



**Sea Kayaking in Kauai, Hawaii**—June 26–July 2. See page 113 for details. *Leaders: Carolyn and Joe Braun. Price: \$1,205; Dep: \$200. [94287]*

**Prince William Sound Sea Kayak, Alaska**—July 5–13. See page 80 for details. *Leader: Ian Walton. Price: \$1,495; Dep: \$200. [94114]*

**Kodiak Island Bear Camp and Shuyak Island Sea Kayaking, Alaska**—July 7–18. See page 80 for details on this trip. *Leaders: Chef Dunbar and Rod Hall. Price: \$2,795; Dep: \$200. [94116]*

**Apostle Islands Sea Kayaking, Lake Superior, Wisconsin**—August 14–20. Small islands, boreal shores, and unspoiled beaches make the picturesque Apostles of northwestern Wisconsin particularly alluring to the venturesome kayaker. Whether from water-level paddling perspective or by exploring the wooded, rocky shores on foot, we will savor the pristine beauty of this cluster of islets under the last full moon of summer. Kayaking experience necessary; minimum age 18. Kayak rental available but not included in trip fee. *Leader: Larry Ten Pas. Price: \$540; Dep: \$100. [94376]*

**Sea Kayaking the Coast of Georgia**—October 31–November 4. 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. Kayak rental not included. *Leader: Michael W. Ewanus. Price: \$450; Dep: \$50. [94377]*

**Note: See International for other kayaking trips.**

## Raft

**Canyons of the Owyhee River, Oregon**—May 1–4. When the canyons come alive with spring wildflowers, melting snows from the east slope of the Cascades swell their rollicking rapids. These dramatic, canyons are often compared with those in Utah, such as Bryce and Zion. Wildlife abounds. This is a rare opportunity to experience this unique river wilderness gem. Trip fee includes transport from and to Boise, Idaho. *Coordinator: Wheaton Smith. Price: \$920; Dep: \$100. [94081]*

**Minnesota-Ontario Border**—August 16–22. Arriving after the busiest season, we will paddle and portage the quiet Northwoods, listen to the yodel of the loons, search the rocky shores for Indian pictographs, and stalk a wild moose on a misty lake at sunrise. This glaciated wilderness of clear, blue, interconnecting lakes and rivers offers fishing, swimming, blueberries, and relaxation at day's end. (Grade B) *Leader: Faye Sitzman. Price: \$560; Dep: \$100. [94375]*

**Note: See International for other canoe trips.**

## Kayak

**Glacier Bay Sea Kayak, Glacier Bay Park and Preserve, Alaska**—June 19–30. See page 78 for details. *Leaders: Carol and Howard Dienger. Price: \$1,595; Dep: \$200. [94110]*

## GREAT NORTH AMERICAN PRAIRIE



The vast expanse of plains that reaches from central Canada to the Mexican border and from the Rockies to Indiana is on the brink of ecological disaster. Once an immense inland sea of grasses where indigenous peoples flourished,

and which supported massive herds of bison and pronghorn antelope, the prairie changed forever after the arrival of European settlers.

Grasslands and wetlands made way for farmland; native peoples were relegated to reservations; wildlife was replaced by cattle and sheep; and mining altered the landscape. Today, only remnants of the wild prairie exist. These continue to be threatened by wetlands destruction, proposed waste facilities, and disfiguring mining operations. Meanwhile, chemically intensive, irrigation-based farming depletes groundwater, increases soil erosion, and causes pesticide contamination.

The Sierra Club is working to reverse these trends by calling for two new national parks and several wilderness areas in the region, working for stronger wetlands protection in the U.S. and Canada, and lobbying for farm bills that encourage conservation measures. Support the Sierra Club in these efforts, and go on a Sierra Club Outing to enjoy the region's beauty. Please see Highlight trip #94063 and Water trip #94373.

## WATER

**Yampa River, Dinosaur Monument, Utah—May 23–27.** 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 run-off provides over 40 Class III rapids, including Warm Springs Rapid, one of the legendary "Big Drops." Minimum age eight. *Coordinator: Blaine LeCheminant. Price: \$650; Dep: \$100. [94082]*

**Dolores River, San Juan Forest, Colorado—May 30–June 3.** This 100-mile float in a primitive red-sandstone canyon is second only to the Grand Canyon float in continuous river running and whitewater quality. We start in a deep canyon with coniferous forest and clear water, one Class IV rapid and numerous lesser rapids will delight you. This trip can be done with #94084 below. Minimum age 10. *Coordinator: R. Kurt Menning. Price: \$655; Dep: \$100. [94083]*

**Colorado River Canyons, Colorado and Utah—June 5–7.** This float on the Upper Colorado River starts quietly in a stunning sandstone gorge called Horsethief/Ruby Canyons, an area studded with spires, windows, arches, and box canyons, where horse-thieves and robbers once hid. We then enter Westwater Canyon with its wild bucking rapids surrounded by igneous rock over 1.7 billion years old. This trip can be done in conjunction with trip #94083 above. Minimum age 10. *Coordinator: R. Kurt Menning. Price: \$500; Dep: \$100. [94084]*

**Idaho Combination: Middle Fork of the Salmon and the Lochsa Rivers—June 19–25.** After rafting for five days in the River of No Return Wilderness Area on the Salmon River, we will challenge the explosive

rapids of the Lochsa River for two days of action-packed whitewater. Flowing through the heart of the largest wilderness area in the Lower 48, the Middle Fork is a river of superlative beauty. For those undaunted by big whitewater, we'll paddle the major Class III and IV rapids of the thunderous Lochsa. All participants must be able to swim; minimum age 15. *Coordinator: Gary Larsen. Price: \$1,395; Dep: \$200. [94378]*

**Tatshenshini by Raft, St. Elias Mountains, Alaska and British Columbia—June 20–29.** See page 78 for details. *Coordinator: Marianne Kehoe. Price: \$1,890; Dep: \$200. [94111]*

**Grand Canyon Oar Trip, Arizona—June 27–July 9.** One of the greatest whitewater rivers in the world, the Colorado River provides an unforgettable experience for those who travel its 225 miles by oar and paddle

boat. The quiet and natural flow of our rafts will allow us to fully appreciate the character of this river and the solitude of its canyons. We will stop frequently to explore the geology, flora, fauna, and side canyons often missed on commercial trips. Cost includes round-trip transportation from Flagstaff, Arizona. Minimum age is 10 (18 solo). *Coordinator: Bruce Macpherson. Price: \$2,295; Dep: \$200. [94379]*



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# 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  
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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?<br>YES <input type="checkbox"/> NO <input type="checkbox"/> |              |  |  |                              |
| STREET ADDRESS   |  |                                |                   | YOUR HOME PHONE<br>(     )     -     -     -     -     -     -  |              |  |  |                              |
| CITY   |  | STATE                          |                   | ZIP   |              | YOUR WORK PHONE<br>(     )     -     -     -     -     -     - |  |                              |
| PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY |  |                                | MEMBERSHIP NUMBER | AGE   | RELATIONSHIP | NUMBER OF OUTINGS YOU'VE BEEN ON<br>CHAPTER     NATIONAL       |  | YEAR OF LAST NATIONAL OUTING |
| 1  |  |                                |                   |   | SELF         |  |  |                              |
| 2  |  |                                |                   |   |              |  |  |                              |
| 3  |  |                                |                   |   |              |  |  |                              |
| 4  |  |                                |                   |   |              |  |  |                              |
| PER PERSON COST OF OUTING  |  | TOTAL COST OF THIS 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

02

# 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?<br>YES <input type="checkbox"/> NO <input type="checkbox"/> |              |  |  |                              |
| STREET ADDRESS   |  |                                |                   | YOUR HOME PHONE<br>(     )     -     -     -     -     -     -  |              |  |  |                              |
| CITY   |  | STATE                          |                   | ZIP   |              | YOUR WORK PHONE<br>(     )     -     -     -     -     -     - |  |                              |
| PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY |  |                                | MEMBERSHIP NUMBER | AGE   | RELATIONSHIP | NUMBER OF OUTINGS YOU'VE BEEN ON<br>CHAPTER     NATIONAL       |  | YEAR OF LAST NATIONAL OUTING |
| 1  |  |                                |                   |   | SELF         |  |  |                              |
| 2  |  |                                |                   |   |              |  |  |                              |
| 3  |  |                                |                   |   |              |  |  |                              |
| 4  |  |                                |                   |   |              |  |  |                              |
| PER PERSON COST OF OUTING  |  | TOTAL COST OF THIS APPLICATION |                   | DEPOSIT ENCLOSED  |              | FOR OFFICE USE ONLY  |  |                              |



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02

**TEAR OFF ENVELOPE HERE.**

YOU MAY ENCLOSE CHECKS OR MONEY ORDERS WITH SAFETY.  
(FLAP IS GUMMED.) ENCLOSE IN THIS ENVELOPE, FOLD FLAP, SEAL AND MAIL.

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**THIS ENVELOPE IS FOR *OUTING RESERVATIONS ONLY*.  
PLEASE *DO NOT* USE FOR MEMBERSHIP FORMS.**

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Send membership forms separately to avoid processing delays.

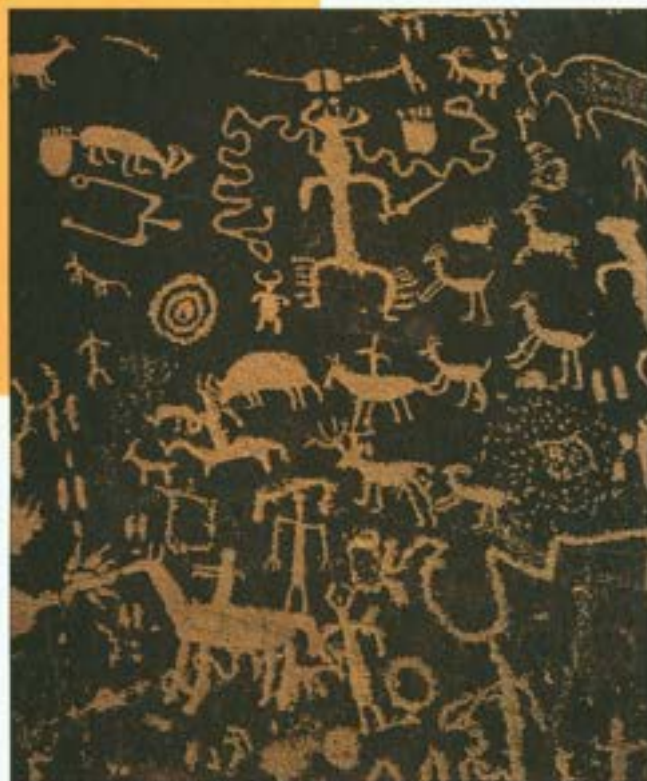
Sierra Club Outing Dept.  
Dept. #05618  
San Francisco CA 94139

PLACE  
STAMP  
HERE





Clockwise from left: Westwater Canyon, Colorado River; great egret, Florida; Newspaper Rock, near Canyonlands, Utah.



**Dinosaur Monument Family Adventure, Colorado—July 7–9.** Join this family-oriented, car-powered raft trip through the Green River's Lodore Canyon, a colorful canyonland maze in Dinosaur National Monument. Our professional guides will cook the meals for us and provide special activities for the children, including in-camp games, a visit to a dinosaur fossil bone quarry, campfire stories, star-gazing, wildlife watching,

and hikes to view Indian rock art. Minimum age is five. *Coordinator: Mark A. Larson. Price: adult \$395, child \$345. Dep: \$50 [94380]*

**Green River Raft and Hiking Trip, Desolation Canyon Historic Area, Utah—July 11–15.** Camp where Butch Cassidy and the Wild Bunch did, on the tree-shaded beaches of the Green. We will row, paddle, kayak, or even swim for 80 miles through beautiful, historic Desolation and Gray canyons. This is an ideal first trip or family trip, the rapids are Class III and under, the camping luxurious, the water warm, the hiking lei-

surely, and the scenery spectacular! *Coordinator: Bruce Macpherson. Price: \$690. Dep: \$100 [94381]*

**Cataract, Canyonlands, Colorado River Hiking and Rafting, Canyonlands Park, Utah—July 17–22.** Nowhere on its entire course does the Colorado River descend more precipitously than through Cataract Canyon. We'll encounter 23 major rapids, including Mile Long, Ben Hurt, and the legendary Big Drops (Class IV and up)! We'll follow the itinerary of Major Powell's voyage for 100 miles through Canyonlands National Park to our takeout on Lake Powell. Plenty of time for side-canyon exploration, including a dayhike to the Doll House in the Maze. *Coordinator: Bruce Macpherson. Price: \$800. Dep: \$100 [94382]*

**Major Powell Anniversary Special, Canyonlands Park—July 11–22.** Celebrate the 125th anniversary of John Wesley Powell's voyage through America's last "terra incognita" by combining trips #94381 and #94382 and enjoy a significant price break. *Coordinator: Bruce Macpherson. Price: \$1,400. Dep: \$200*

**Heart of the Inupiat by Backpack and Raft, Gates of the Arctic Park, Alaska—July 24–August 6.** See page 80 for details. *Leader: Gary Aguilar. Price: \$2,095. Dep: \$200 [94119]*

**Rogue River Family Adventure, Oregon—July 26–29.** Warm water, fun rapids, overnight camping on river bluffs, exploring the woods, being tossed in circles in Mule Creek Canyon, seeing Zane Grey's cabin, scouting Blossom Bar Rapid, campfires, spontaneous water fights, swimming in eddies, relaxing in camp as others cook dinner, skits by the evening campfire—all combine to promise a rewarding family wilderness-rafting experience. *Coordinator: Ruth Dyche. Price: adult \$650, child, \$590. Dep: \$100 [94383]*

**Twin Lakes Base Camp and Rafting, Lake Clark Park and Preserve, Alaska—August 1–13.** See page 81 for details

*Leader: Jon Kangas. Price: \$1,895. Dep: \$200 [94123]*

**Hands-On Family Trip, Klamath River, California—August 8–11.** The Lower Klamath is a whitewater playground perfect for families, an intriguing geological area where fishermen compete with bears for steelhead and salmon. We'll enjoy lovely swimming spots, majestic Ukonom Falls, and forested canyons. Flow your own raft while professional guides instruct you in the ways of the river. Minimum age eight. *Coordinator: Mary O'Connor. Price: adult \$550, Dep: \$100; child \$490, Dep: \$50 [94384]*

**Grand Canyon Oar Trip, Arizona—August 9–21.** See trip #94379 above for details. *Coordinator: Lynn Dyche. Price: \$2,295. Dep: \$200 [94385]*

**Rogue River Family Adventure, Oregon—September 3–6.** See description for trip #94383 above. *Coordinator: Jon Kangas. Price: adult \$650, child \$590. Dep: \$100 [94386]*

**Fall Grand Canyon Oar Trip, Arizona—October 12–25.** See trip #94379 above for details. *Coordinator: Sallee Lotz. Price: \$2,395. Dep: \$200 [94387]*

**Note: See International for other rafting trips.**

## Sailing

**Islands, Sails, and Orca Whales, Gulf and San Juan Islands, British Columbia and Washington—October 3–8.** Come sail away with us! Join a skipper/naturalist to explore the Gulf and San Juan Islands between Vancouver and Victoria, British Columbia, aboard a 68-foot luxury sailboat with a well-equipped library and galley. Walk through forested marine parks and along stretches of wilderness shoreline. Autumn is ideal for a visit—fine hiking and sailing weather, and the summer crowds are gone from coastal villages. *Coordinator: Sallee Lotz. Price: \$1,035. Dep: \$200 [94388]*

**Note: See International for other sailing trips.**

# GEOGRAPHIC INDEX

NO LOCATION DATE TYPE PAGE

## INTERNATIONAL TRIPS

### AFRICA

|       |           |          |        |     |
|-------|-----------|----------|--------|-----|
| 94595 | Kenya     | 6/18-7/3 | Safari | 116 |
| 94617 | Mt. Kenya | 7/4-11   | Trek   | 116 |
| 94620 | Tanzania  | 7/12-26  | Safari | 116 |
| 94635 | Botswana  | 8/14-27  | Safari | 116 |

### ANTARCTICA

|       |                     |                  |        |     |
|-------|---------------------|------------------|--------|-----|
| 95700 | Antarctic Peninsula | 12/30/94-1/12/95 | Cruise | 117 |
|-------|---------------------|------------------|--------|-----|

### ASIA

|       |               |                 |              |     |
|-------|---------------|-----------------|--------------|-----|
| 94545 | India         | 3/22-4/9        | Camel safari | 117 |
| 94555 | Japan         | 4/12-22         | Hiking       | 117 |
| 94510 | Nepal & Tibet | 4/17-30         | Trek         | 118 |
| 94565 | Nepal         | 5/9-6/10        | Trek         | 118 |
| 94575 | China         | 5/18-6/8        | Van/Train    | 118 |
| 94580 | Central Asia  | 5/22-6/10       | Hiking       | 118 |
| 94695 | Kazakhstan    | 9/4-9/27        | Hiking       | 118 |
| 94655 | Nepal         | 10/1-11/16      | Trek         | 118 |
| 94670 | Nepal         | 11/10-12/7      | Trek         | 119 |
| 94675 | Vietnam       | 11/14-11/27     | Trek         | 119 |
| 94705 | Nepal         | 12/18-12/30     | Trek         | 119 |
| 95710 | China         | 12/19/94-1/2/95 | Hiking       | 119 |
| 95715 | Nepal         | 3/13/95-3/26/95 | Trek         | 120 |

### CANADA

|       |                               |         |          |     |
|-------|-------------------------------|---------|----------|-----|
| 94104 | Baffin Island, N.W.T.         | 6/2-15  | Backpack | 78  |
| 94111 | Tatshenshini River, AK & B.C. | 6/20-29 | Raft     | 78  |
| 94113 | North Ellesmere Island        | 7/3-19  | Backpack | 80  |
| 94148 | Vancouver Island              | 7/17-23 | Backpack | 89  |
| 94374 | Algonquin Park, Ontario       | 7/18-28 | Canoe    | 134 |
| 94325 | Klusine Park Preserve, Yukon  | 7/23-30 | Service  | 128 |
| 94156 | Jasper Park, Alberta & B.C.   | 7/23-31 | Backpack | 90  |
| 94181 | Mt. Robson Park, B.C.         | 8/6-15  | Backpack | 93  |
| 94339 | Vancouver Island              | 8/9-19  | Service  | 129 |
| 94388 | Gulf & San Juan Islands       | 10/3-8  | Sailing  | 137 |

### CARIBBEAN

|       |                     |         |           |     |
|-------|---------------------|---------|-----------|-----|
| 94053 | Puerto Rico         | 4/18-24 | Base Camp | 100 |
| 94228 | U.S. Virgin Islands | 6/13-19 | Base Camp | 101 |

### EUROPE

|        |          |            |              |     |
|--------|----------|------------|--------------|-----|
| 94560A | England  | 5/1-14     | Walking      | 120 |
| 94570  | Cyprus   | 5/14-29    | Hiking       | 120 |
| 94560B | England  | 5/15-28    | Walking      | 120 |
| 94585  | England  | 6/1-15     | Service      | 120 |
| 94590  | Austria  | 6/18-7/2   | Hike/Bicycle | 121 |
| 94605  | Norway   | 6/21-7/2   | Hiking       | 121 |
| 94615  | France   | 7/3-13     | Hike/Van     | 121 |
| 94640  | Italy    | 8/29-9/11  | Hiking       | 121 |
| 94600  | France   | 9/5-13     | Walking      | 121 |
| 94645  | Slovakia | 9/5-17     | Hiking       | 121 |
| 94660  | Greece   | 10/21-11/3 | Sail/Hike    | 121 |

### LATIN AMERICA

|       |                         |            |           |     |
|-------|-------------------------|------------|-----------|-----|
| 94530 | Belize                  | 2/15-26    | Hiking    | 121 |
| 94535 | Baja California, Mexico | 2/19-2/25  | Kayak     | 121 |
| 94515 | Chile                   | 2/19-3/5   | Trek      | 122 |
| 94550 | Costa Rica              | 4/3-9      | Raft      | 122 |
| 94650 | Costa Rica              | 10/15-23   | Hike/Raft | 122 |
| 94665 | Baja California, Mexico | 10/22-28   | Kayak     | 122 |
| 94720 | Bolivia                 | 10/30-11/5 | Hiking    | 122 |
| 94680 | Belize                  | 12/18-26   | Hiking    | 122 |
| 94685 | Galapagos, Ecuador      | 12/22-29   | Sail/Hike | 123 |
| 94690 | Costa Rica              | 12/24-30   | Raft      | 123 |

NO LOCATION DATE TYPE PAGE

## PACIFIC BASIN

|       |             |        |        |     |
|-------|-------------|--------|--------|-----|
| 94520 | New Zealand | 2/6-26 | Hiking | 123 |
|-------|-------------|--------|--------|-----|

## RUSSIA

|       |                               |           |           |     |
|-------|-------------------------------|-----------|-----------|-----|
| 94610 | Lake Baikal, Southern Siberia | 6/28-7/17 | Service   | 123 |
| 94625 | Kamchatka                     | 7/25-8/6  | Hiking    | 123 |
| 94630 | Vladivostok to Moscow         | 8/8-22    | Hike/Tour | 123 |

## DOMESTIC TRIPS

### ALASKA

|       |  |           |               |    |
|-------|--|-----------|---------------|----|
| 94105 | Brooks Range                           | 6/10-23   | Backpack      | 78 |
| 94106 | Arctic Wildlife Refuge                 | 6/11-20   | Backpack      | 78 |
| 94107 | Arctic Wildlife Refuge                 | 6/13-24   | Backpack      | 78 |
| 94108 | Glacier Bay Park & Preserve            | 6/14-24   | Service       | 78 |
| 94101 | Arctic Wildlife Refuge                 | 6/18-30   | Activist      | 77 |
| 94109 | Lake Clark Park & Preserve             | 6/19-29   | Base Camp     | 78 |
| 94110 | Glacier Bay Park & Preserve            | 6/19-30   | Kayak         | 78 |
| 94111 | Tatshenshini River, AK & B.C.          | 6/20-29   | Raft          | 78 |
| 94112 | Gates of the Arctic Park               | 6/20-30   | Service       | 80 |
| 94114 | Prince William Sound                   | 7/5-13    | Kayak         | 80 |
| 94115 | Prince William Sound                   | 7/6-16    | Service       | 80 |
| 94116 | Kodiak & Shuyak Islands                | 7/7-18    | Kayak         | 80 |
| 94100 | Glacier Bay & Admiralty Island         | 7/8-16    | Kayak         | 80 |
| 94117 | Katmai Park                            | 7/11-23   | Backpack      | 80 |
| 94118 | Brooks Range                           | 7/15-28   | Backpack      | 80 |
| 94119 | Gates of the Arctic Park               | 7/24-8/6  | Backpack/Raft | 80 |
| 94120 | Alaska Range                           | 7/28-8/10 | Bicycle       | 81 |
| 94121 | Noatak River, Gates of the Arctic Park | 7/31-8/12 | Canoe         | 81 |
| 94122 | Alagnak River, Katmai Park             | 8/1-10    | Raft/Fish     | 81 |
| 94123 | Lake Clark Park & Preserve             | 8/1-13    | Raft          | 81 |
| 94124 | Admiralty Island                       | 8/9-19    | Service       | 81 |
| 94125 | Toklat River, Denali Park              | 8/12-22   | Service       | 81 |

### ARKANSAS

|       |               |          |           |     |
|-------|---------------|----------|-----------|-----|
| 94067 | Buffalo River | 4/17-23  | Service   | 124 |
| 94368 | Buffalo River | 10/9-15  | Service   | 131 |
| 94292 | Buffalo River | 10/16-22 | Highlight | 114 |

### ARIZONA

|       |   |          |           |     |
|-------|---|----------|-----------|-----|
| 94031 | Superstition Wilderness                   | 2/20-26  | Backpack  | 82  |
| 94033 | Kofa Wildlife Refuge                      | 3/19-26  | Backpack  | 82  |
| 94051 | Grand Canyon Area                         | 4/2-9    | Base Camp | 100 |
| 94034 | Rainbow Bridge & Navajo Mtn.              | 4/2-9    | Backpack  | 83  |
| 94035 | Superstition Wilderness                   | 4/3-9    | Backpack  | 83  |
| 94066 | North Kaibab Forest                       | 4/4-13   | Service   | 124 |
| 94068 | Coconino Forest                           | 4/17-23  | Service   | 124 |
| 94037 | Galiuro Wilderness                        | 4/17-23  | Backpack  | 83  |
| 94039 | Paria Canyon Wilderness                   | 4/23-30  | Backpack  | 84  |
| 94040 | Rainbow Plateau                           | 4/24-30  | Backpack  | 84  |
| 94042 | Rainbow Bridge & Navajo Mountain, AZ & UT | 4/24-30  | Backpack  | 85  |
| 94044 | Grand Canyon                              | 4/30-5/7 | Backpack  | 85  |
| 94045 | Sycamore Canyon Wilderness                | 5/1-7    | Backpack  | 85  |
| 94046 | Cave Creek Canyon & Chiricahua Wilderness | 5/8-14   | Backpack  | 85  |
| 94075 | Grand Canyon                              | 5/22-28  | Service   | 125 |
| 94130 | Canyon Country, AZ & UT                   | 5/29-6/4 | Backpack  | 86  |
| 94131 | Paria Canyon                              | 6/3-9    | Backpack  | 86  |
| 94132 | Oak Creek Canyon                          | 6/5-11   | Backpack  | 86  |
| 94301 | Apache Forest                             | 6/11-18  | Service   | 125 |
| 94379 | Grand Canyon                              | 6/27-7/9 | Raft      | 136 |
| 94307 | Paria Canyon                              | 6/19-25  | Service   | 126 |
| 94314 | Cottonwood Point Wilderness               | 7/9-16   | Service   | 127 |
| 94385 | Grand Canyon                              | 8/9-21   | Raft      | 137 |
| 94281 | Canyon de Chelly                          | 8/15-21  | Family    | 112 |
| 94358 | Chiricahua Wilderness                     | 9/11-22  | Service   | 131 |

| NO.               | LOCATION   | DATE     | TYPE      | PAGE | NO.             | LOCATION   | DATE      | TYPE      | PAGE |
|-------------------|--|----------|-----------|------|-----------------|--|-----------|-----------|------|
| 94359             | Grand Canyon                                     | 9/12-21  | Service   | 131  | 94279           | Ansel Adams Wilderness, Sierra                   | 8/6-13    | Family    | 111  |
| 94235             | Canyon de Chelly                                 | 10/9-15  | Base Camp | 103  | 94182           | John Muir Wilderness & Kings Canyon Park, Sierra | 8/7-13    | Backpack  | 93   |
| 94387             | Grand Canyon                                     | 10/12-25 | Raft      | 137  | 94280           | Tahoe Forest, Sierra                             | 8/7-13    | Family    | 111  |
| 94222             | Rainbow Plateau, UT & AZ                         | 10/14-21 | Backpack  | 99   | 94184           | Yosemite Park, Sierra                            | 8/7-14    | Backpack  | 94   |
| <b>CALIFORNIA</b> |  |          |           |      | 94264           | John Muir Wilderness, Sierra                     | 8/7-14    | Burro     | 108  |
| 94424             | Tahoe Forest, Sierra                             | 1/30-2/4 | Ski       | 132  | 94384           | Klamath River                                    | 8/8-11    | Raft      | 137  |
| 94427             | Tahoe Forest, Sierra                             | 2/27-3/4 | Ski       | 132  | 94185           | John Muir Wilderness, Sierra                     | 8/8-15    | Backpack  | 94   |
| 94085             | Big Sur, Ventana Wilderness                      | 3/25-4/2 | Service   | 124  | 94186           | John Muir Wilderness, Sierra                     | 8/9-17    | Backpack  | 94   |
| 94300             | Santa Cruz Island Preserve                       | 4/11-18  | Service   | 124  | 94187           | Kings Canyon & Sequoia Parks, Sierra             | 8/9-18    | Backpack  | 94   |
| 94052             | East Mojave Scenic Area                          | 4/17-22  | Base Camp | 100  | 94188           | John Muir Wilderness & Kings Canyon Park, Sierra | 8/10-20   | Backpack  | 94   |
| 94428             | Tahoe Forest, Sierra                             | 4/17-22  | Ski       | 132  | 94341           | Yosemite Park, Sierra                            | 8/10-21   | Service   | 129  |
| 94038             | Ventana Wilderness                               | 4/23-30  | Backpack  | 84   | 94343           | Sierra Forest, Sierra                            | 8/11-21   | Service   | 129  |
| 94237             | Tahoe Forest, Sierra                             | 6/5-11   | Lodge     | 104  | 94189           | Kings Canyon Park, Sierra                        | 8/12-19   | Backpack  | 94   |
| 94227             | Mono Lake Basin, Sierra                          | 6/12-18  | Base Camp | 101  | 94190           | John Muir Wilderness, Sierra                     | 8/12-20   | Backpack  | 94   |
| 94238             | Tahoe Forest, Sierra                             | 6/12-18  | Lodge     | 104  | 94192           | Ansel Adams Wilderness, Sierra                   | 8/13-20   | Backpack  | 94   |
| 94133             | Yosemite Park, Sierra                            | 6/16-23  | Backpack  | 86   | 94193           | Emigrant Wilderness, Sierra                      | 8/13-21   | Backpack  | 95   |
| 94239             | Tahoe Forest, Sierra                             | 6/19-25  | Lodge     | 104  | 94194           | Mt. Lassen                                       | 8/13-21   | Backpack  | 95   |
| 94135             | Marble Mountain Wilderness                       | 6/22-30  | Backpack  | 86   | 94243           | Tahoe Forest, Sierra                             | 8/14-20   | Lodge     | 105  |
| 94270             | Tahoe Forest, Sierra                             | 6/25-7/1 | Family    | 109  | 94291           | Yosemite Park, Sierra                            | 8/14-24   | Highlight | 114  |
| 94136             | John Muir Wilderness, Sierra                     | 6/30-7/9 | Backpack  | 86   | 94265           | Kings Canyon Park, Sierra                        | 8/14-26   | Burro     | 108  |
| 94312             | Russian Wilderness                               | 7/6-16   | Service   | 127  | 94198           | John Muir Wilderness, Sierra                     | 8/15-26   | Backpack  | 95   |
| 94229             | John Muir Wilderness, Sierra                     | 7/9-16   | Base Camp | 102  | 94200           | Kings Canyon Park, Sierra                        | 8/18-26   | Backpack  | 96   |
| 94140             | John Muir Wilderness & Kings Canyon Park, Sierra | 7/9-18   | Backpack  | 87   | 94201           | Kings Canyon Park, Sierra                        | 8/20-28   | Backpack  | 96   |
| 94315             | Marble Mountain Wilderness                       | 7/9-19   | Service   | 127  | 94244           | Tahoe Forest, Sierra                             | 8/21-27   | Lodge     | 105  |
| 94141             | Yosemite Park, Sierra                            | 7/10-17  | Backpack  | 88   | 94202           | Yosemite Park, Sierra                            | 8/21-27   | Backpack  | 96   |
| 94142             | Emigrant Wilderness, Sierra                      | 7/10-17  | Backpack  | 88   | 94203           | Kings Canyon Park, Sierra                        | 8/21-28   | Backpack  | 96   |
| 94260             | John Muir Wilderness, Sierra                     | 7/10-17  | Burro     | 106  | 94283           | Santa Cruz Mountains                             | 8/22-28   | Family    | 112  |
| 94143             | Carson-Iceberg Wilderness, Sierra                | 7/11-15  | Backpack  | 88   | 94204           | Sierra Forest & Kings Canyon Park, Sierra        | 8/25-9/3  | Backpack  | 96   |
| 94317             | Trinity Alps                                     | 7/12-22  | Service   | 127  | 94205           | Kings Canyon Park, Sierra                        | 8/26-9/4  | Backpack  | 96   |
| 94144             | Kings Canyon Park, Sierra                        | 7/14-23  | Backpack  | 88   | 94234           | Emigrant Wilderness, Sierra                      | 8/27-9/4  | Base Camp | 103  |
| 94145             | Yosemite Park, Sierra                            | 7/16-24  | Backpack  | 88   | 94284           | Tahoe Forest, Sierra                             | 8/28-9/2  | Family    | 112  |
| 94146             | Kings Canyon Park, Sierra                        | 7/16-24  | Backpack  | 88   | 94206           | Kings Canyon Park, Sierra                        | 8/28-9/3  | Backpack  | 96   |
| 94240             | Tahoe Forest, Sierra                             | 7/17-23  | Lodge     | 104  | 94207           | John Muir Wilderness, Sierra                     | 8/28-9/5  | Backpack  | 96   |
| 94149             | Yosemite Park, Sierra                            | 7/17-23  | Backpack  | 89   | 94208           | Hoover Wilderness, Sierra                        | 8/29-9/2  | Backpack  | 97   |
| 94150             | Inyo Forest, Sierra                              | 7/17-24  | Backpack  | 89   | 94209           | Kings Canyon Park, Sierra                        | 8/30-9/9  | Backpack  | 97   |
| 94261             | John Muir Wilderness, Sierra                     | 7/17-24  | Burro     | 106  | 94210           | John Muir Wilderness, Sierra                     | 9/1-8     | Backpack  | 97   |
| 94320             | Marble Mountain Wilderness                       | 7/17-27  | Service   | 128  | 94211           | Yosemite Park, Sierra                            | 9/3-10    | Backpack  | 97   |
| 94152             | Kings Canyon Park, Sierra                        | 7/21-30  | Backpack  | 89   | 94212           | Kings Canyon Park, Sierra                        | 9/4-12    | Backpack  | 97   |
| 94153             | Yosemite Park, Sierra                            | 7/21-30  | Backpack  | 89   | 94245           | Tahoe Forest, Sierra                             | 9/11-17   | Lodge     | 105  |
| 94230             | Sierra Forest & Ansel Adams Wilderness, Sierra   | 7/23-30  | Base Camp | 103  | 94371           | Santa Cruz Island Preserve                       | 10/21-28  | Service   | 131  |
| 94272             | John Muir Wilderness, Sierra                     | 7/23-30  | Family    | 110  | 94372           | Channel Islands Park                             | 10/21-28  | Service   | 131  |
| 94241             | Tahoe Forest, Sierra                             | 7/24-30  | Lodge     | 104  | <b>COLORADO</b> |  |           |           |      |
| 94160             | Trinity Alps                                     | 7/24-30  | Backpack  | 90   | 94083           | Dolores River                                    | 5/30-6/3  | Raft      | 136  |
| 94161             | Yosemite Park, Sierra                            | 7/24-31  | Backpack  | 90   | 94084           | Colorado River, CO & UT                          | 6/5-7     | Raft      | 136  |
| 94262             | John Muir Wilderness, Sierra                     | 7/24-31  | Burro     | 108  | 94380           | Dinosaur Monument                                | 7/7-9     | Raft      | 137  |
| 94162             | John Muir Wilderness, Sierra                     | 7/24-8/1 | Backpack  | 90   | 94313           | Pike Forest                                      | 7/7-17    | Service   | 127  |
| 94163             | Kings Canyon Park, Sierra                        | 7/24-8/1 | Backpack  | 90   | 94139           | San Juans-Weminuche Wilderness                   | 7/9-16    | Backpack  | 87   |
| 94165             | Sequoia and Kings Canyon Parks, Sierra           | 7/26-8/4 | Backpack  | 90   | 94164           | Maroon Bells-Snowmass Wilderness                 | 7/25-30   | Backpack  | 90   |
| 94166             | John Muir Wilderness, Sierra                     | 7/29-8/6 | Backpack  | 91   | 94323           | Lizard Head Wilderness                           | 7/20-30   | Service   | 128  |
| 94330             | Inyo Forest, Sierra                              | 7/30-8/5 | Service   | 128  | 94324           | Lost Creek Wilderness                            | 7/21-31   | Service   | 128  |
| 94167             | Ansel Adams Wilderness, Sierra                   | 7/30-8/6 | Backpack  | 91   | 94328           | Rocky Mountain Park                              | 7/25-8/4  | Service   | 128  |
| 94242             | Tahoe Forest, Sierra                             | 7/31-8/6 | Lodge     | 104  | 94168           | San Juan Mountains, Weminuche Wilderness         | 7/30-8/6  | Backpack  | 91   |
| 94274             | John Muir Wilderness, Sierra                     | 7/30-8/6 | Family    | 110  | 94331           | Sangre de Cristo Wilderness                      | 7/30-8/6  | Service   | 128  |
| 94171             | John Muir Wilderness, Sierra                     | 7/31-8/7 | Backpack  | 91   | 94173           | Maroon Bells-Snowmass Wilderness                 | 7/31-8/9  | Backpack  | 92   |
| 94172             | Yosemite Park, Sierra                            | 7/31-8/7 | Backpack  | 92   | 94336           | Collegiate Peaks Wilderness                      | 8/6-16    | Service   | 129  |
| 94263             | John Muir Wilderness, Sierra                     | 7/31-8/7 | Burro     | 108  | 94342           | Zirkel Wilderness                                | 8/11-20   | Service   | 129  |
| 94174             | Ansel Adams Wilderness, Sierra                   | 8/1-7    | Backpack  | 92   | 94199           | Weminuche Wilderness                             | 8/16-25   | Backpack  | 96   |
| 94277             | Santa Cruz Mountains                             | 8/1-7    | Family    | 110  | 94348           | Maroon Bells-Snowmass Wilderness                 | 8/17-27   | Service   | 130  |
| 94175             | Yosemite Park, Sierra                            | 8/1-10   | Backpack  | 92   | 94360           | Hoverweep Monument                               | 9/18-9/24 | Service   | 131  |
| 94176             | Yosemite Park, Sierra                            | 8/3-9    | Backpack  | 92   |                 |  |           |           |      |
| 94178             | John Muir Wilderness, Sierra                     | 8/5-13   | Backpack  | 93   |                 |  |           |           |      |
| 94179             | Yosemite Park, Sierra                            | 8/5-14   | Backpack  | 93   |                 |  |           |           |      |

# GEOGRAPHIC INDEX

| NO                   | LOCATION                      | DATE       | TYPE      | PAGE | NO                    | LOCATION                                  | DATE      | TYPE      | PAGE |
|----------------------|-------------------------------|------------|-----------|------|-----------------------|---|-----------|-----------|------|
| <b>FLORIDA</b>       |                               |            |           |      | <b>NEW MEXICO</b>     |   |           |           |      |
| 94077                | Everglades Park               | 2/20-25    | Canoe     | 133  | 94072                 | Chaco Culture Historical Park             | 5/1-7     | Service   | 124  |
| 94032                | Ocala Forest                  | 2/27-3/5   | Backpack  | 82   | 94073                 | Chaco Culture Historical Park             | 5/8-14    | Service   | 124  |
| <b>GEORGIA</b>       |                               |            |           |      | 94048                 | Gila and Aldo Leopold<br>Wilderness Areas | 5/15-21   | Backpack  | 86   |
| 94078                | Okefenokee Swamp              | 3/20-25    | Canoe     | 133  | 94302                 | Chaco Culture Historical Park             | 6/11-20   | Service   | 126  |
| 94057                | Okefenokee Wildlife Refuge    | 3/27-4/1   | Family    | 109  | 94304                 | Chaco Culture Historical Park             | 6/18-24   | Service   | 126  |
| 94377                | Georgia Coast                 | 10/31-11/4 | Kayak     | 135  | 94309                 | Aztec Monument                            | 6/22-7/1  | Service   | 126  |
| <b>HAWAII</b>        |                               |            |           |      | 94310                 | Chaco Culture Historical Park             | 6/25-7/2  | Service   | 126  |
| 94060                | Mauí                          | 3/12-26    | Service   | 113  | 94214                 | Pecos Wilderness                          | 9/11-17   | Backpack  | 98   |
| 94061                | Hawaii Island                 | 3/26-4/2   | Family    | 113  | 94357                 | Chaco Culture Historical Park             | 9/11-17   | Service   | 131  |
| 94286                | Hawaii Island                 | 6/18-30    | Bicycle   | 113  | 94217                 | Pecos Wilderness                          | 9/18-24   | Backpack  | 99   |
| 94287                | Kauai                         | 6/26-7/2   | Kayak     | 113  | <b>NEW YORK</b>       |   |           |           |      |
| 94289                | Mauna Loa, Hawaii             | 10/2-14    | Backpack  | 113  | 94250                 | Finger Lakes                              | 6/19-25   | Bicycle   | 106  |
| <b>IDAHO</b>         |                               |            |           |      | 94311                 | Adirondack Forest Preserve                | 7/3-9     | Service   | 126  |
| 94378                | Salmon & Lochsa Rivers        | 6/19-25    | Raft      | 136  | 94252                 | Adirondack Forest                         | 7/31-8/5  | Bicycle   | 106  |
| 94290                | Yellowstone Ecosystem         | 7/3-9      | Highlight | 114  | 94276                 | Finger Lakes                              | 8/1-7     | Family    | 110  |
| 94157                | River of No Return Wilderness | 7/24-30    | Backpack  | 90   | 94337                 | Adirondack Park                           | 8/7-13    | Service   | 129  |
| 94334                | Hells Canyon Wilderness       | 8/2-12     | Service   | 128  | 94365                 | Catskill Park                             | 10/1-8    | Service   | 131  |
| 94335                | Parhandle Forest              | 8/6-16     | Service   | 129  | <b>NORTH CAROLINA</b> |   |           |           |      |
| 94191                | Sawtooth Wilderness           | 8/12-20    | Backpack  | 94   | 94070                 | Nantahala Forest                          | 4/23-30   | Service   | 124  |
| 94344                | Salmon River                  | 8/13-20    | Service   | 129  | 94221                 | Nantahala Forest                          | 10/2-8    | Backpack  | 99   |
| 94196                | Sawtooth Wilderness           | 8/14-21    | Backpack  | 95   | <b>OHIO</b>           |   |           |           |      |
| <b>KENTUCKY</b>      |                               |            |           |      | 94074                 | Wayne Forest                              | 5/8-14    | Service   | 124  |
| 94366                | Daniel Boone Forest           | 10/2-8     | Service   | 131  | <b>OREGON</b>         |   |           |           |      |
| <b>MAINE</b>         |                               |            |           |      | 94081                 | Owyhee River                              | 5/1-4     | Raft      | 135  |
| 94305                | Allagash Wilderness           | 6/18-26    | Service   | 126  | 94154                 | Three Sisters Wilderness                  | 7/23-30   | Backpack  | 89   |
| 94306                | Acadia Park                   | 6/19-25    | Service   | 126  | 94251                 | Oregon Coast                              | 7/24-30   | Bicycle   | 106  |
| 94195                | Appalachian Trail, NH & MN    | 8/14-20    | Backpack  | 95   | 94327                 | Eagle Cap Wilderness                      | 7/24-8/3  | Service   | 128  |
| 94282                | Acadia Park                   | 8/21-27    | Family    | 112  | 94383                 | Rogue River                               | 7/26-29   | Raft      | 137  |
| 94253                | Acadia & Mt. Desert Island    | 8/28-9/3   | Bicycle   | 106  | 94232                 | Newberry Volcanic Monument                | 7/31-8/7  | Base Camp | 103  |
| 94355                | Baxter Park                   | 9/10-17    | Service   | 130  | 94338                 | Western Cascades                          | 8/7-14    | Service   | 129  |
| 94216                | Baxter Park                   | 9/18-24    | Backpack  | 98   | 94349                 | Crater Lake Park                          | 8/20-28   | Service   | 130  |
| <b>MARYLAND</b>      |                               |            |           |      | 94386                 | Rogue River                               | 9/3-6     | Raft      | 137  |
| 94369                | Eastern Shore                 | 10/9-15    | Service   | 131  | 94102                 | Oregon & Washington                       | 9/11-18   | Activist  | 77   |
| <b>MASSACHUSETTS</b> |                               |            |           |      | <b>PENNSYLVANIA</b>   |   |           |           |      |
| 94356                | Cape Cod Seashore             | 9/10-17    | Service   | 131  | 94364                 | Appalachian Mountains                     | 9/25-10/1 | Service   | 131  |
| 94254                | Cape Cod & Martha's Vineyard  | 9/11-17    | Bicycle   | 107  | <b>PUERTO RICO</b>    |   |           |           |      |
| <b>MICHIGAN</b>      |                               |            |           |      | 94053                 | Puerto Rico                               | 4/18-24   | Base Camp | 100  |
| 94231                | Sleeping Bear Dunes Park      | 7/31-8/6   | Base Camp | 103  | <b>SOUTH DAKOTA</b>   |   |           |           |      |
| 94347                | Isle Royale Park              | 8/16-26    | Service   | 130  | 94063                 | Badlands Park                             | 5/22-27   | Highlight | 114  |
| 94213                | Lake Superior Pictured Rocks  | 9/11-17    | Backpack  | 96   | <b>TENNESSEE</b>      |   |           |           |      |
| <b>MINNESOTA</b>     |                               |            |           |      | 94055                 | Great Smoky Mountains Park                | 5/8-14    | Base Camp | 100  |
| 94425                | Northwestern Minnesota        | 1/31-2/4   | Ski       | 132  | 94215                 | Citico Creek Wilderness                   | 9/17-24   | Backpack  | 98   |
| 94426                | Boundary Waters               | 2/7-11     | Ski       | 132  | <b>TEXAS</b>          |   |           |           |      |
| 94079                | Boundary Waters               | 5/22-28    | Canoe     | 134  | 94421                 | Big Bend Park                             | 2/6-14    | Backpack  | 82   |
| 94319                | Boundary Waters               | 7/17-23    | Service   | 128  | 94064                 | Big Bend Park                             | 3/6-12    | Service   | 124  |
| 94375                | Boundary Waters               | 8/16-22    | Canoe     | 134  | <b>UTAH</b>           |   |           |           |      |
| <b>MONTANA</b>       |                               |            |           |      | 94034                 | Rainbow Bridge & Navajo Mtn.              | 4/2-9     | Backpack  | 83   |
| 94290                | Yellowstone Ecosystem         | 7/3-9      | Highlight | 114  | 94058                 | Arches & Canyonlands Parks                | 4/10-16   | Family    | 109  |
| 94373                | Missouri River                | 7/9-16     | Canoe     | 134  | 94062                 | Southeast Utah                            | 4/10-16   | Highlight | 114  |
| 94352                | Glacier Park                  | 8/30-9/8   | Service   | 130  | 94036                 | Southeast Utah                            | 4/17-23   | Backpack  | 83   |
| <b>NEVADA</b>        |                               |            |           |      | 94069                 | Glen Canyon Recreation Area               | 4/17-23   | Service   | 124  |
| 94354                | Ruby Mountain Wilderness      | 9/8-18     | Service   | 130  | 94042                 | Rainbow Bridge & Navajo Mtn.              | 4/24-30   | Backpack  | 85   |
| <b>NEW HAMPSHIRE</b> |                               |            |           |      | 94054                 | Capitol Reef Park                         | 4/24-30   | Base Camp | 100  |
| 94332                | White Mountain Forest         | 7/31-8/6   | Service   | 128  | 94071                 | Arches Park                               | 4/24-30   | Service   | 124  |
| 94195                | Appalachian Trail, NH & MN    | 8/14-20    | Backpack  | 95   | 94043                 | Dirty Devil River                         | 4/24-5/1  | Backpack  | 85   |
| 94219                | Pemigewasset Wilderness       | 9/25-10/1  | Backpack  | 99   | 94047                 | Dark Canyon                               | 5/14-21   | Backpack  | 85   |
|                      |                               |            |           |      | 94225                 | Southeastern Utah                         | 5/15-21   | Base Camp | 100  |

# SIERRA CLUB OUTINGS

| NO.                   | LOCATION                     | DATE      | TYPE      | PAGE |
|-----------------------|------------------------------|-----------|-----------|------|
| 94049                 | Dark Canyon                  | 5/22-29   | Backpack  | 86   |
| 94062                 | Yampa River                  | 5/23-27   | Raft      | 136  |
| 94130                 | Canyon Country, AZ & UT      | 5/29-6/4  | Backpack  | 86   |
| 94131                 | Paria Canyon                 | 6/3-9     | Backpack  | 86   |
| 94084                 | Colorado River, CO & UT      | 6/5-7     | Raft      | 136  |
| 94303                 | Bryce Canyon Park            | 6/12-18   | Service   | 126  |
| 94307                 | Paria Canyon                 | 6/19-25   | Service   | 126  |
| 94308                 | Dark Canyon                  | 6/19-26   | Service   | 126  |
| 94381                 | Green River                  | 7/11-15   | Raft      | 137  |
| 94382                 | Colorado River               | 7/17-22   | Raft      | 137  |
| 94326                 | Dixie Forest                 | 7/24-30   | Service   | 128  |
| 94170                 | High Uintas Wilderness       | 7/31-8/6  | Backpack  | 91   |
| 94350                 | Uintas Forest                | 8/22-9/1  | Service   | 130  |
| 94218                 | Dark Canyon Wilderness       | 9/25-10/1 | Backpack  | 99   |
| 94361                 | Natural Bridges Monument     | 9/25-10/1 | Service   | 131  |
| 94363                 | Death Hollow                 | 9/25-10/1 | Service   | 131  |
| 94367                 | Canyonlands Park             | 10/2-8    | Service   | 131  |
| 94220                 | Glen Canyon Recreation Area  | 10/2-8    | Backpack  | 99   |
| 94103                 | Waterpocket Fold             | 10/8-15   | Activist  | 77   |
| 94370                 | Arches Park                  | 10/9-15   | Service   | 131  |
| 94222                 | Rainbow Plateau, UT & AZ     | 10/14-21  | Backpack  | 99   |
| 94223                 | The Maze District            | 10/15-23  | Backpack  | 99   |
| <b>VERMONT</b>        |                              |           |           |      |
| 94158                 | Green Mountains              | 7/24-30   | Backpack  | 90   |
| <b>VIRGIN ISLANDS</b> |                              |           |           |      |
| 94228                 | U.S. Virgin Islands          | 6/13-19   | Base Camp | 101  |
| <b>VIRGINIA</b>       |                              |           |           |      |
| 94056                 | Blue Ridge Parkway           | 5/22-28   | Bicycle   | 106  |
| 94134                 | Mt. Rogers Recreation Area   | 6/19-26   | Backpack  | 86   |
| 94236                 | Mt. Rogers Recreation Area   | 10/16-22  | Base Camp | 103  |
| <b>WASHINGTON</b>     |                              |           |           |      |
| 94271                 | Stehekin Valley              | 7/4-10    | Family    | 110  |
| 94137                 | Olympic Park                 | 7/6-13    | Backpack  | 86   |
| 94138                 | Olympic Park                 | 7/6-13    | Backpack  | 86   |
| 94316                 | Mount St. Helens             | 7/11-21   | Service   | 127  |
| 94147                 | Mount St. Helens             | 7/17-23   | Backpack  | 88   |
| 94155                 | Olympic Park                 | 7/23-31   | Backpack  | 89   |
| 94275                 | Stehekin Valley              | 7/31-8/6  | Family    | 110  |
| 94180                 | Olympic Park                 | 8/6-13    | Backpack  | 93   |
| 94183                 | Okanogan Forest              | 8/7-13    | Backpack  | 94   |
| 94346                 | Mt. Rainier Park             | 8/15-25   | Service   | 130  |
| 94233                 | Stehekin Valley              | 8/21-27   | Base Camp | 103  |
| 94353                 | Olympic Park                 | 9/8-16    | Service   | 130  |
| 94102                 | Northwest, OR & WA           | 9/11-18   | Activist  | 77   |
| 94388                 | Gulf & San Juan Islands      | 10/3-8    | Sailing   | 137  |
| <b>WEST VIRGINIA</b>  |                              |           |           |      |
| 94226                 | Laurel Fork Wilderness       | 6/12-18   | Base Camp | 100  |
| 94345                 | Greenland Gap Preserve       | 8/14-20   | Service   | 129  |
| <b>WISCONSIN</b>      |                              |           |           |      |
| 94376                 | Apostle Islands              | 8/14-20   | Kayak     | 135  |
| <b>WYOMING</b>        |                              |           |           |      |
| 94290                 | Yellowstone Ecosystem        | 7/3-9     | Highlight | 114  |
| 94318                 | Bridger Wilderness           | 7/13-23   | Service   | 127  |
| 94322                 | Washakie Wilderness          | 7/19-29   | Service   | 128  |
| 94159                 | Bridger Wilderness           | 7/24-30   | Backpack  | 90   |
| 94273                 | Bridger Wilderness           | 7/27-8/3  | Family    | 110  |
| 94329                 | Bighorn Forest               | 7/27-8/6  | Service   | 128  |
| 94189                 | Grand Teton & Targhee Forest | 7/30-8/6  | Backpack  | 91   |
| 94333                 | Popo Agie Wilderness         | 8/1-11    | Service   | 128  |
| 94278                 | Targhee Forest               | 8/5-12    | Family    | 111  |
| 94197                 | Wind River Range             | 8/14-23   | Backpack  | 95   |
| 94351                 | Bridger-Teton Forest         | 8/23-9/2  | Service   | 130  |

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Sierra Club Outings are led by volunteer Sierra Club leaders. They are non-commercial and are offered as a means of educating our members on the value of wilderness preservation and environmental protection. Service Trips further this goal by protecting and restoring public lands. Sierra Club Outings are not intended to financially support other operations of the Club. Your trip price is composed of the direct costs of operating your trip and an allocated portion of the administrative costs of producing the entire Outing Program. The Sierra Club Outing Department does not operate as a commercial travel agency and does not pay or receive commissions.

# RESERVATION & 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 non-refundable 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.

Clip coupon and mail to: **Sierra Club Outing Department**, 730 Polk St., San Francisco, CA 94109

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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 anti-social 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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Atlantic Monthly, January 1898.



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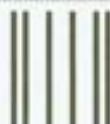
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Continued from page 63

zines U.S. readers discard every year.

For magazines to be truly environmentally sound, they must go full circle, reappearing as some useful product—perhaps a newspaper or cereal box. Today, however, most of them wind up clogging landfills. Though glossy paper is recyclable, it is often ignored, partly because only about two-thirds of it is paper. Clay and fillers make up the rest. So the recycler has to haul and process a third more waste-paper and then dispose of tons of clay.

But the future for magazine recycling is promising. A "flotation" de-inking process now in use at nine U.S. newsprint mills uses 30 percent magazines in its wastepaper mix. Already established in Europe, flotation de-inking gained a foothold in the United States only after passage of state laws requiring minimum recycled content in newsprint created an unprecedented demand for recycled fiber. Now the technology is on a fast track. In three years, the Solid Waste Management Association estimates, 60 percent of all magazines will be recycled.

## THE NEXT LIFE

If magazine recycling is to succeed, publishers will have to learn to think about their product's next incarnation—to design for recycling. Does the cover have an extra coat of sheen? Are the adhesives in the binding a problem for recyclers? Are there any unusual materials, like scent strips? If the answer to any of these questions is yes, recycling may be a challenge. A pizza store once purchased a batch of cardboard pizza boxes made from old magazines that contained a perfume. When the hot pizza was placed into the box, it reactivated the chemicals that created that scent, and . . . the employees didn't have a word for what it smelled like, but it sure wasn't pizza.

Far worse than scent strips, however, are adhesives used for bindings and inserts that are hard to break down in the recycling process. Cover coatings, used

to protect and increase the gloss of many magazine covers, are another trap. Some leave the cover dazzlingly shiny, but make it difficult or impossible to recycle. Other coatings don't cause recycling problems, but emit VOCs when applied. All told, it's better to let the cover image—not the coating—do the dazzling.

*Sierra* takes care to ensure that it is thoroughly recyclable: Quad/Graphics recently began testing a new recyclable glue to bind the magazine, and plans to use it for the entire print run as soon as practicable. The magazine doesn't use scent strips, cover coatings, or nonremovable stickies. Its newsstand leftovers are now purchased by recyclers.

## CLOSING THE LOOP

Changing one step in the publishing process often has a synergistic effect. When, for instance, ink manufacturers increase the vegetable content of their ink, they make the magazine paper easier to de-ink and the de-inking sludge less toxic. Because vegetable-based ink unlocks from paper fibers more easily than petrochemical inks, it leaves longer, stronger pulp fibers when removed. Since this pulp is stronger, less virgin fiber is required to fortify it when it is made into new paper.

When the de-inking bottleneck opens up, papermakers will be able to use more post-consumer waste, and the pressure to clearcut virgin forests will subside. The increased demand will boost the waste's price, raising revenue for collection programs.

When papermakers eliminate chlorine compounds from the bleaching process, the mills' wastewater—no longer toxic—can be used over and over again in the production cycle. Water is saved, discharge is minimal, and a truly environmentally sound paper mill becomes a possibility.

The next thing you know, we'll have environmentally sound magazines. ■

JOHN BYRNE BARRY is a designer for the *Sierra Club's Conservation Department* and a freelance writer.

► For more information, see "Resources," p. 72.

## RESOURCES

Continued from page 72

Materials Committee, 2439 Crestline Dr., Olympia, WA 98502. For B.C. forestry issues, contact the Sierra Club of Western Canada, 1525 Amelia St., Victoria, B.C., Canada V8W 2K1; for U.S. state or regional forestry issues, write or call the nearest Sierra Club national office (see page 6 for addresses).

For information on where to obtain paper products made without chlorine bleaching, contact Washington Citizens for Recycling at 157 Yesler Way, Suite 309, Seattle, WA 98104; (206) 343-5171, and ask for a free copy of their brochure, *Reach for Unbleached*. In Canada, contact the Reach for Unbleached Campaign for Environmentally Sound Paper, c/o Delores Brown, Box 105, Whaletown, B.C., Canada V0P 1Z0.

*The Greenpeace Guide to Paper* by Renate Kroesa provides an excellent summary of the environmental issues related to chlorine-bleached paper. (Kroesa is the environmental chemist who advised us in our paper search.) The 56-page booklet is available in the United States and Canada for \$3 from Greenpeace, 1726 Commercial Dr., Vancouver, B.C., Canada V5N 4A3.

To help communities find buyers and markets for their recyclables, the American Forest and Paper Association published *Paper Matcher*, a free 250-page directory of paper-recycling mills, recovered-paper dealers, and recycling centers. For the most recent version, write to AFPA's Paper Information Center, 1250 Connecticut Ave., N.W., Suite 360, Washington, DC 20036; or call (800) 878-8878.

*Sound Design*, an informative brochure for graphic designers who want to make ecologically responsible ink and paper choices, includes a set of four posters demonstrating various papers, inks, and processes. The package is available for \$10 from the American Institute of Graphic Arts/Seattle, c/o Partners in Design, 502 N. 64th St., Seattle, WA 98103. For more information, call Sharon Mentyka at (206) 789-8631.

The Magazine Publishers of America (MPA) and the American Society of Magazine Editors (ASME) have set up a Task Force on Magazines and the Environment. For more information, contact the task force at 919 Third Ave., 22nd floor, New York, NY 10022. ■





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