IN THIS ISSUE: 1992 SIERRA CLUB OUTINGS CATALOG

SIERRA

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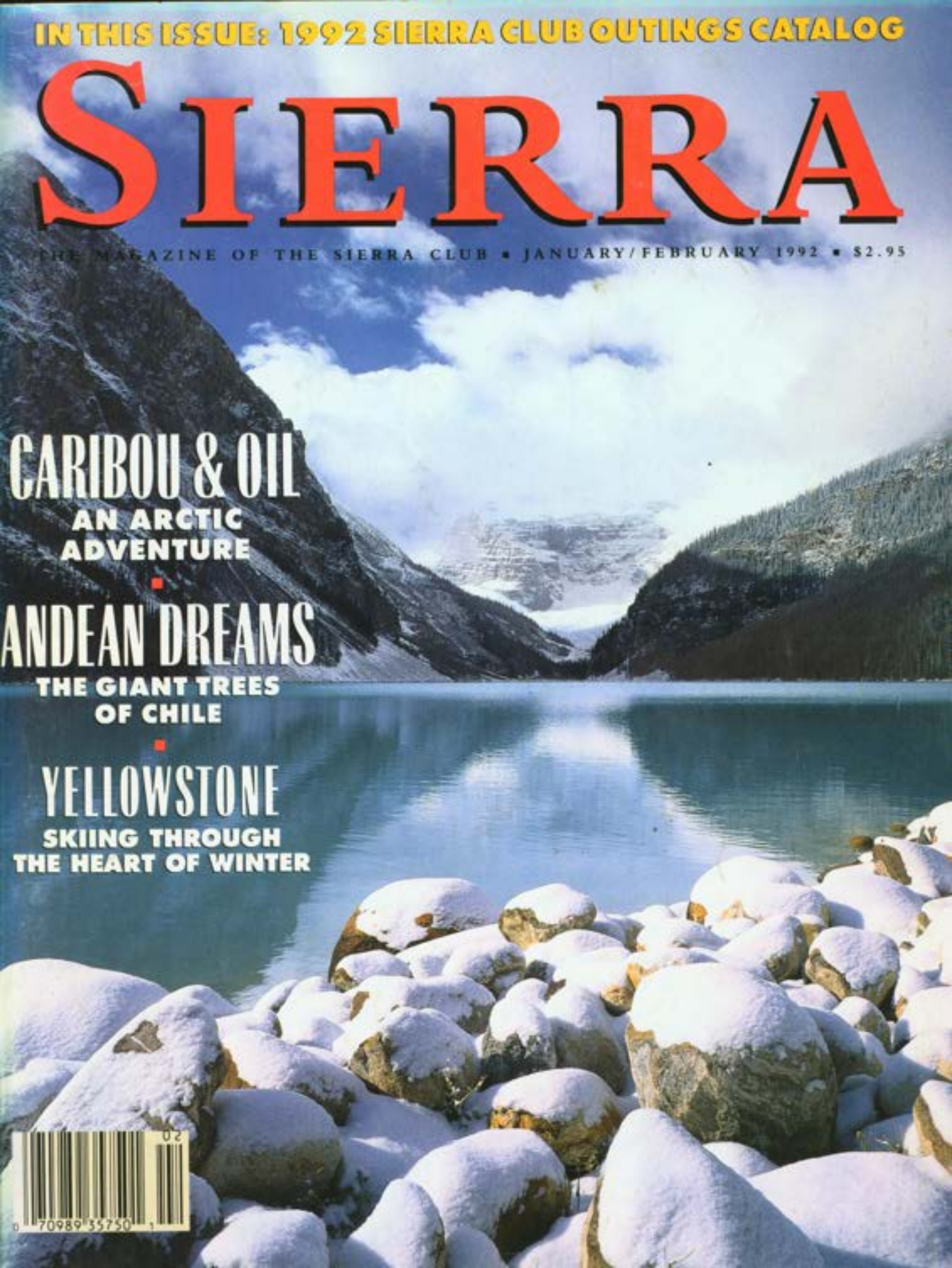

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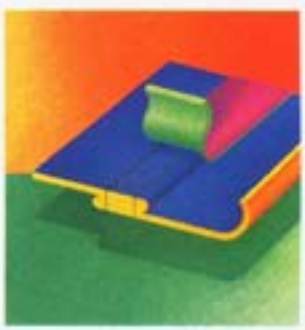

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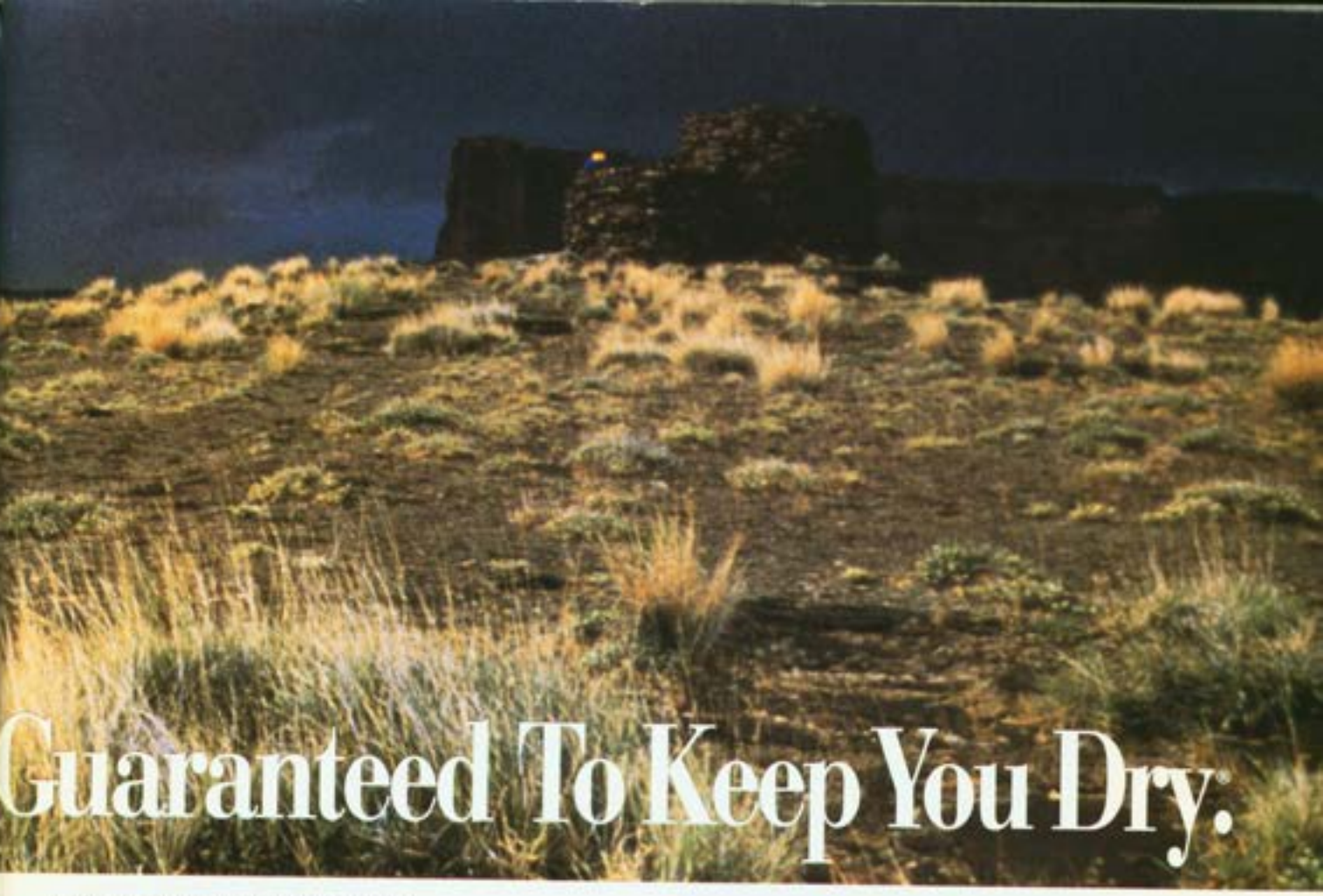

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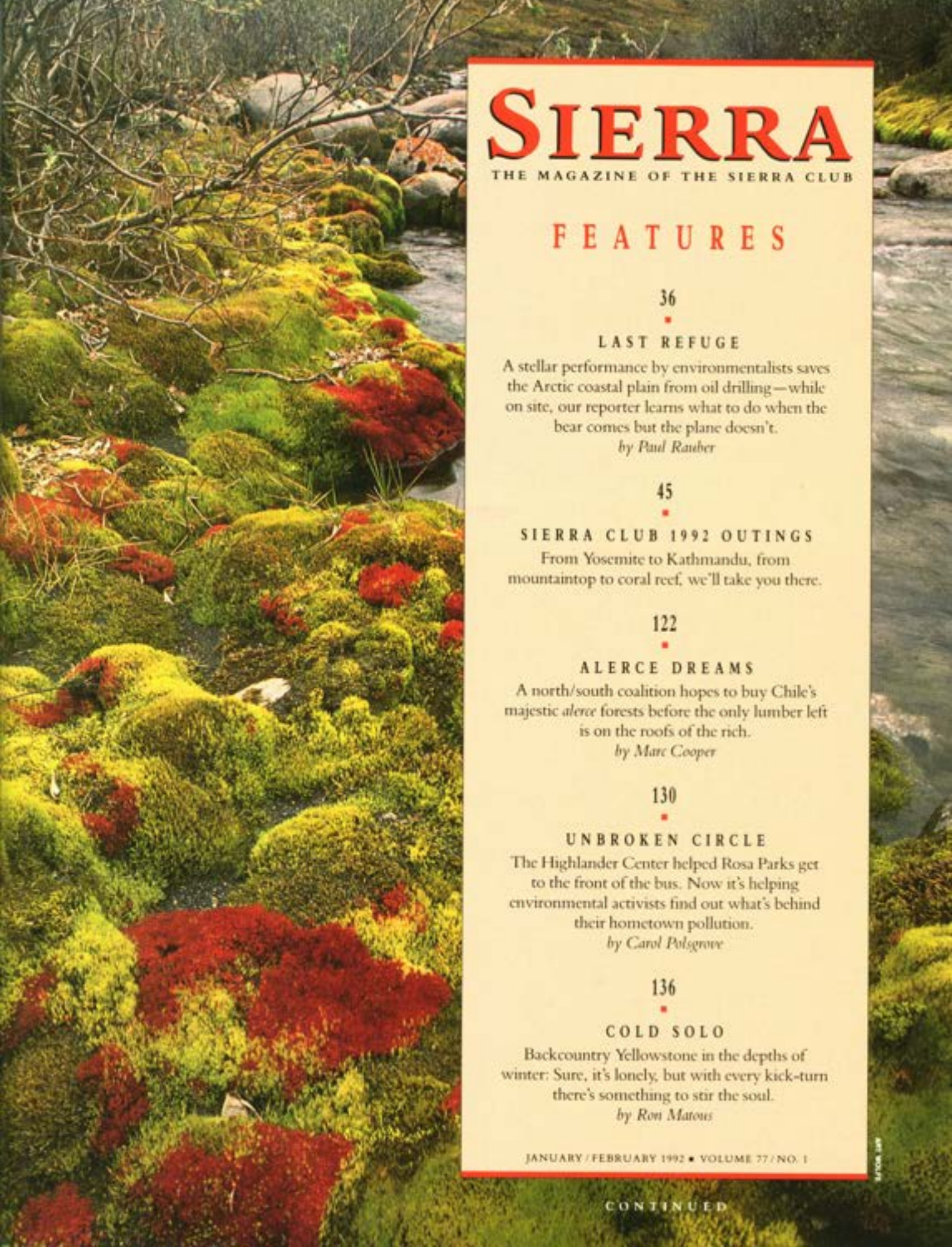

SIERRA

THE MAGAZINE OF THE SIERRA CLUB

FEATURES

JANUARY / FEBRUARY 1992 ■ VOLUME 77 / NO. 1

CONTINUED

SIERRA

AFIELD

DEPARTMENTS

COVER
Banff National Park, British Columbia
Photo by Craig Tuttle

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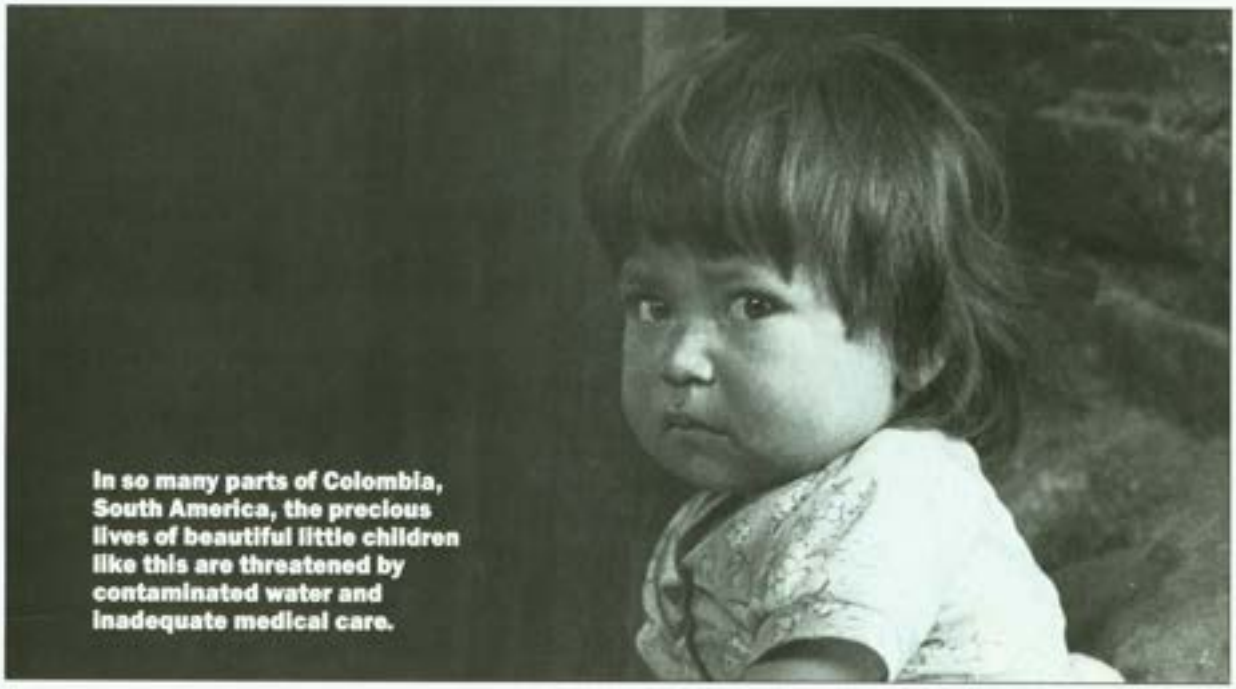

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FROM THE PRESIDENT

Mr. Bush? Hello?

The current administration has let the nation down on nearly every environmental front. We had hoped for something far better from the man who pledged to be "the environmental president," but since taking office, George Bush has opposed virtually all initiatives to preserve our national heritage.

A campaign ago, Bush acknowledged that environmental protection was compatible with prosperity. "The economic health and development of our country are dependent upon a healthy environment," he said in 1988. "Sustainable economic development is an essential ingredient of economic progress worldwide." But his behavior while in office suggests that other principles (and John Sununu) are fully operating. The disparity between earlier rhetoric and nearly three years of inaction (and worse) on the natural-resources front is both profound and troubling to those who care more about the long-term health of the planet than about short-term economics.

How successful George Bush will be in distracting the American people from his yawning environmental credibility gap remains to be seen. He may attempt an end-run around the issue by pointing to such international economic developments as the collapse of Soviet communism and the likely approval of free-trade agreements in both hemispheres as evidence of "worldwide economic progress"—even though under those agreements the lowest common denominators of environmental protection would be in effect. But apart from such sophistry, Bush cannot claim that his administration has adequately addressed the crises facing the planet—the weight of evidence is to the contrary.

That evidence is not limited to widening holes in the ozone or increased levels of atmospheric carbon, problems the G-7 ministers unsuccessfully urged Bush to acknowledge and help solve. It includes his proposed "energy strategy" that would sacrifice our coastlines and the Arctic National Wildlife Refuge, overturn provisions of the Clean Air and Endangered Species acts, and give free rein to a revived nuclear-power industry. It includes his willingness to sacrifice millions of acres of wetlands through expedient redefinition in the interests of runaway development. It extends to directly opposing conservation initiatives that would protect old-growth forests, the California Desert, and other sensitive ecosystems around the nation.

For every commendable environmental action taken by the Bush administration—appointment of William Reilly to head the EPA, approval of wilderness protection for portions of Nevada, Arizona, and Illinois, strengthening of acid-rain provisions in the Clean Air Act—there are many more negative acts to the President's discredit.

The Sierra Club remains nonpartisan, but not infinitely patient: After three years of George Bush, we see no signs of an "environmental presidency" in the making. Quite the reverse, in fact. Once again we ask the President to consider his stated commitment to the natural world . . . and put him on notice that we will not take continued failure to meet that commitment passively.

Phillip Berry
Sierra Club President

SIERRA CLUB

"To explore, enjoy, and protect the wild places of the earth; to practice and promote the responsible use of the earth's ecosystems and resources; to educate and enlist humanity to protect and restore the quality of the natural and human environment; and to use all lawful means to carry out these objectives."

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On the Trail Again

Out of the red dirt and rubble of Red Valley, Arizona, rises Prayer Rock, an improbable sandstone skyscraper overtopping a broad expanse of juniper, piñon, and sage. Up close, the monolith dwarfs a human being. From a short distance away, you can watch shadows define and redefine the stone's features as a flotilla of fair-weather cumuli drifts overhead.

It was from the base of Prayer Rock that Lynn Krause set out last September, leading ten people on a Sierra Club outing to the wildlands of the Navajo Reservation in northeastern Arizona. The monument Lynn chose to mark the start of our week-long trek was so impressive that I wondered if everything else along our route might pale by comparison. I needn't have worried: Each day some equally remarkable arch, cave, butte, mesa, or canyon materialized to astonish us. Clearly Lynn had laid out the excursion in part for dramatic effect. As Sierra Club trip leaders generally do, she had painstakingly scouted the territory we were to traverse, mapping a hiking route that would both challenge and dazzle us.

I had singled out Lynn's trek from among more than 350 outdoor adventures described in last year's Outings Catalog (included, as always, in the January/February issue of *Sierra*), seduced by her promise of exploring mountains that "soar above blue deserts and fiery-red Windgate sandstone." I had never thought of any desert as blue, but later, standing on a cliff in Broken Flute Valley and gazing out at silver-blue sagebrush crowding up to the edges of arroyos cut deep into the earth, I saw what Lynn meant.

I was lured also by the prospect of following "ancient Anasazi routes and Navajo sheep trails." Though no archaeologist, I was curious about Anasazi culture, and welcomed a chance to see their now-crumbling cliff dwellings, faded pictographs and petroglyphs, and scattered potsherds. The idea of resorting to sheep trails struck me as odd at first, given the Sierra Club's aversion to livestock-trampled land. But I knew that Navajo culture is bound up with the raising of sheep—the tribe has fought and bitterly lost battles with the U.S. government over grazing rights—and I found the thought of the trails somehow inviting. If on the one hand our group would be stepping in sheep dung and rambling through overgrazed pastures (as turned out to be the case, with virtually every tuft of grass on the range chewed to the roots), on the other we would be following paths bespeaking tumultuous years of Navajo history.

Hardy hikers in a humbling landscape—sheep dung and all.

Perhaps the clincher for me, though, was the promise that a Navajo guide would accompany us. Charles Howe of Cove, Arizona, knows the land well; he had twice before worked with Lynn in guiding Sierra Club trips around his remote corner of the reservation. His presence among us was not arbitrary: The Navajo Nation requires trekkers on its land to be accompanied by a member of the tribe. This proved to be not a restriction but a benefit, since Charles gladly related his people's beliefs to us and, at the end of the trip, built a sweat lodge in which we cleansed ourselves of six days' dust and any lingering worldly cares.

Our "Highlight" trip—a small-scale version of the now-defunct Sierra Club High Trip—enjoyed the services of still another key player. Peggy Taylor of Flagstaff was our packer, negotiating her four-wheel-drive vehicle over precarious jeep roads in order to meet us each night with our commissary, personal gear, and water supply. She oversaw most camp functions, and enabled us to hike sunup to sundown with the lightest possible load: just daypacks holding three quarts each of water and the day's lunch fixings.

I can't say whether the participants on this outing—a thoroughly engaging and capable group of women and men—were exactly the sort who routinely sign up for Sierra Club trips. I'd venture to guess, though, that we were typical in one respect: We possessed widely varying degrees of interest in the Club's conservation efforts. Some of us were ardent wilderness advocates, signers of petitions, and writers of letters to Congress, while others claimed no particular fondness for environmental activism at all, their sole interest in the Club being its outings program. How this group of total strangers was able to spend a week together without getting on each other's nerves is hard to say, but I suspect it's not uncommon on Club outings. On our trip, I think it had to do with the respect we gained for each other as we pushed ourselves to the limit, hiking together through the caprices of weather and the uncertainties of terrain, seldom complaining.

I also believe our group harmony had much to do with our humble attitude in the face of that immense landscape. For all of our conversation on the trail and around evening campfires, the most profound voices any of us heard were inner ones, those that speak loudest in the wilderness.

—*Mark Mardon*

LETTERS

ONE-SIDED DEBATE

It was with great interest that I read Paul Rauber's "New Life for White Death" (September/October 1991)—a well-constructed collection of misconceptions about the asbestos issue.

The inflammatory statement "Even quite brief exposure to asbestos can result in lung cancer or the extremely painful tumor of the lung cavity called mesothelioma" is clearly misleading. The average human breathes thousands of asbestos fibers daily, with no adverse effects. In fact, asbestos fibers, which are a natural mineral substance, have been present in our air and water in similar quantities long before asbestos was ever mined commercially.

Sierra fails to distinguish between the risks of working with asbestos in a mining or manufacturing context and those supposedly related to the use of asbestos-based products, e.g., asbestos cement pipes or shingles and asbestos insulation. An overwhelming body of evidence suggests that there are no health risks associated with the proper use and management of products containing asbestos.

Sierra naively suggests that asbestos should be banned. This implies the availability of substitutes that are necessarily safer than asbestos. In many instances such products are neither healthier nor economically feasible. The EPA ban of asbestos in brake linings was to have "saved" 0 to 15 cases of cancer each year, yet some scientists believe that it will result in more than ten times as many fatalities from highway accidents due to brake failure. Moreover, many of the fibers used to replace asbestos in brakes and other products have been found to be carcinogenic. Clearly, like asbestos, substitutes require a controlled-use approach.

Sierra implies that developing nations are incapable of safely managing asbestos. The excellent dust control in many Indian asbestos plants, however, suggests that this paternalistic assumption does not hold. With the proper support and guidance, these nations are capable of matching and even surpassing the industrial-hygiene standards of many industrialized countries.

It is attitudes such as yours that created the hysteria leading to the asbestos-abatement fiasco. Hundreds of millions of taxpayer dollars have been spent to remove asbestos from buildings, only to find out it would have been safer to have left it and managed it at a fraction of the cost.

Michel Gratton, President
Asbestos Institute
Montreal, Quebec

Paul Rauber replies: *The dirty business of promoting the export of asbestos to the Third World requires a well-developed capacity for obscuring the facts. M. Gratton deploys that talent here in an attempt to convince* Sierra *readers that there is a serious debate as to the safety of asbestos, when in fact there is not. To pretend that there is requires a willful misreading of the evidence, as Gratton also demonstrates.*

The danger of contracting mesothelioma through brief, intense exposure to asbestos is well-documented in the medical literature. According to the EPA, "no level of exposure is without risk." It is also clear, however, that "the greater the dose, the higher the risk"—a point I made in the same paragraph Gratton cites. The fact that a substance occurs naturally is meaningless in this debate. Arsenic is also a natural mineral substance; should that stop us from worrying about how much we ingest?

Gratton charges that I failed to differentiate between the dangers of working directly with asbestos and the risks "supposedly related to the use of asbestos-based products." On page 65, however, I discussed "the fundamental point that asbestos-in-place poses the greatest danger not to casual users of a building, but to the janitors and maintenance personnel who must dust it, patch it, saw through it, and sweep it off the floor." Gratton's further assertion that "there are no health risks associated with the proper use and management of products containing asbestos" is equally disingenuous. If janitors sweeping up asbestos dust all wore respirators, they probably wouldn't die. The fact is that they don't wear respirators, and they do die.

The industry's contention that asbestos substitutes are just as dangerous is unsupported by any evidence. Substitutes, as stated in my article, are available for all applications; they can be said to be economically infeasible only if one puts a low value on human life. A rare instance in which Gratton's humanitarian concern is engaged is the allegation of 150 extra highway deaths due to the failure of non-asbestos brakes. This figure is unknown to the National Highway Traffic Safety Administration, which reports no degradation of safety from these brakes. On the other hand, the Mt. Sinai School of Medicine estimates that 20,000 U.S. auto mechanics will die over the next 40 years from cancer caused by working with asbestos-lined brakes.

My article did not "imply" that developing nations are incapable of safely managing asbestos. It demonstrated it, through numerous examples. While it is possible that some of these nations do have modern dust-control systems, it is certain that many do not.

Finally, my article explicitly warned against impulsive and careless asbestos removal. "No reputable authority," it stated, "advocates removing asbestos from buildings where it has not been damaged or disturbed."

I'm flattered that Gratton found my article of interest; I only wish he had found it worth reading more carefully.

FALLOUT

In her article "In the State of Nevada" (September/October), Rebecca Solnit states that "in at least 42 cases, gases [from underground nuclear tests] have escaped into the atmosphere and been registered off-site" following the Limited Test Ban Treaty in 1963. I fear that this quiet assertion greatly understates the extent to which radioactive fallout continued to drift across North America after 1963.

On December 8 of that year, a 35-

kiloton device buried only 200 feet below ground level was detonated, throwing nearly 2 million cubic meters of rock, dirt, and debris into the sky. A radioactive cloud almost 1,000 feet thick traveled north and east away from the test site, spreading measurable amounts of fallout as far away as Quebec. One authority cited by John G. Fuller in his book *The Day We Bombed Utah* (New American Library, 1984) estimated that "thousands of people in Idaho, Wyoming, Nevada, Colorado, and Utah probably breathed in radioactive dust as the clouds of fallout passed over those areas."

At the time of that test I was living in Colorado Springs, Colorado, with my wife and four-year-old daughter, well within the path of the fallout. Thirteen years later, my daughter contracted cancer of the lymph system. Of course, no causal link between her cancer and her exposure to radioactive fallout from U.S. nuclear tests can be proven, but neither can it be ruled out.

That test illustrated the degree to which the government disregarded the rights and well-being of its citizens and the environment in pursuit of its narrowly defined concept of the national interest. I applaud the courage of those protesting against continued nuclear testing, and I support your decision to include this type of article in *Sierra*. When I was growing up in California, the Sierra Club stood for environmental awareness at its best. I encourage you to continue to do so.

Ronald L. Enfield
Medford Lakes, New Jersey

A NEW NONMEMBER

After eight years as a Sierra Club member, I have decided to cancel my membership in the Club as well as my subscription to *Sierra* magazine. I can no longer tolerate the extremism, hypocrisy, and overpoliticization that have become more and more evident over the past five years. My own views are more moderate, and it would be wrong to allow my name and contributions to be used to further political goals I don't believe in. I'll just have to pay the extra amount for participating in the Club's organized hikes, cross-country ski trips, and other outings as a "nonmember."

The articles and tone of *Sierra* magazine are very political and extreme. Industries, businesspeople, and any profitable enterprise that impacts the environment are stereotyped as black-hat bad guys with evil motives. That type of journalism is a disservice to the people of the United States.

Almost all of the people I have met on Sierra Club outings are like me. They are yuppies working for large industries or government agencies—for example, Hughes, Exxon, or Jet Propulsion Laboratories. Some work for, or own, small businesses. What they have in common is enjoyment of and respect for the outdoors. However, they do not generally espouse the sort of radical idealism and anti-growth philosophies that the "official" Sierra Club and *Sierra* represent.

LeAnne E. Hamilton
Lakewood, California

LeANNE, MEET BRUCE

Sierra's new format seems fresh and progressive. The "Last Words" section is a particularly good idea. Many diverse opinions exist within the environmental movement and among Sierra Club members; these ideas deserve to be aired.

The Sierra Club is viewed by many (myself included) as a conservative organization with a long history of premature compromise and complacency on some of the tough issues. The Club needs to become more democratic and open to the diverse possibilities that exist with a large, active membership. If "Last Words" helps to bring progress and definition to Sierra Club policies, and helps the Club to represent its membership more democratically, then it will have been a great success. If, however, it is only a safety valve for frustrated Sierrans who struggle to make a difference, with no impact on actual Club policies, then it will be a bimonthly waste of a page of print.

Bruce H. Jensen
San Leandro, California

HEARTH & HOME

RICHARD DOWNS

Born Caged

BARBARA ROWLEY

Somewhere in central Ohio, ten African lions were born last year—but not in zoos, and not as part of a captive-breeding program. Like thousands of large predators, exotic birds, and other wild animals, they were born to be raised as pets. It is a role, say animal-welfare experts, for which wild creatures are singularly unsuited.

Almost always sold as cute and cuddly infants, animals including black bears, Bengal tigers, timber wolves, chimpanzees, snakes, and a variety of large tropical birds are available from breeders across the United States. As they mature, even smaller ones like bobcats and raccoons frequently become unpredictable and aggressive by domestic pet standards. Usually declawed and de-fanged as babies, predators such as wolves or big cats still have most of their teeth—"de-fanging" involves removal only of the large canines. And the strength of wild animals can be startling: A playful swat from a bear or lion can easily injure someone. Children and small domestic animals are particularly at risk because, in the words of one lion owner, "They look like dinner."

Your wolf pup won't roll over and your bobcat never purrs

"People call all the time about a mountain lion or a wolf they can no longer take care of," says Terry Jenkins, head keeper at the Folsom City Zoo in California. "Unless we have an opening, which is rare, we can't take it."

The fate of exotic birds is particularly worrisome to Jenkins. At the breeder's, he says, "The birds are usually intimidated and quiet, but when they get home and begin to feel at ease, they start cutting loose with loud jungle noises, ripping up lampshades, digging holes in the wall. Most people can't take it."

Pet owners desperate to unload their wild beasts often turn them over to animal brokers, according to Pat Derby, director of PAWS, a shelter for rejected wild pets. But animals left in brokers' hands may be taken care of in ways not envisioned by their well-meaning former owners: "If it's an alligator, it's going to end up as shoes on somebody's feet," says Derby, "and if it's a lion or a tiger, it's bound for a shooting ranch."

In the case of exotic birds, the problem is not just where they might end up, it's where they might have come from in the first place. Somewhere between 8 and 20 million birds are taken from the wild each year, a rate that Defenders of Wildlife estimates will drive many species to extinction. Of these birds, 500,000 are brought into the United States legally; another 100,000 or so are smuggled in.

Many shelter managers maintain that no wild animal, whether taken from its natural habitat or bred in captivity, should be kept as a pet. And while zookeepers like Terry Jenkins are generally supportive of laws that would ban the importation of some species, they also believe such legislation ultimately misses the point. "Just because a wild animal is imported legally doesn't mean it's ethical to own one," says Jenkins.

Pat Derby of PAWS agrees: "Owners and people who make money off wild animals say that the creatures are much happier and live longer as pets. That's ridiculous. I don't see the point of preserving species just so they can live in cages all their lives." ■

BARBARA ROWLEY *is a freelance writer in Missoula, Montana.*

►*For more information, see "Resources," p. 149.*

HAND & EYE

A Language of Color

HANNAH HINCHMAN

From the paintbox of pure light and pleasure

I'm rattling through frost-stiffened brome grass this morning, mulling over the gulf between the palette and the world. The east-facing wall of the old henhouse is steaming in the sun, so I hunker down against it, sketchbook open. Sitting here, I think of the group of beginning watercolor students I sat with on a hillside in Yellowstone not long ago, and of their palpable dismay as they looked down at the dozen lumps of paint in their boxes, then up at the thousand and one colors in the real world in front of them.

My first colors were the wax crayons and chalky poster paints of grade school. Generally, we were instructed to choose a color, stick with it, and make a neat, even layer that stayed inside the lines of George Washington's hat or the turkey's tail. I struggled to master that skill, and produced drab exercises that fell far short of the promise of the box of crayons itself, with its prismatic array of pure colors.

I had asked my Yellowstone students to make a quick pencil drawing, believing that they needed an underlying form before taking up the brush. So: a wide, flat valley, the winding Lamar River, a timbered slope overlapping one more distant—simple shapes for our purposes.

I wanted them to get the feel of mixing paint—how much water with how much pigment; a loaded brush or a dry one; a pale wash or a saturated color. Then we'd work on building up complicated colors with transparent layers. Before I could deflect them, though, they fell into grade-school lockstep and began making puddles of paint. Trees are green. Water is blue. Grass is green. Sky is blue. Paint and brush took this group of intelligent people and "thumped them back into the bassinette," as the poet Louise Bogan put it.

In this case, the meadow ran across a range of colors from olive bronze to sand dun. The river, against shadowed banks, reflected a lemony peach from one quadrant of the sky, and at another turn, against the meadow, showed a patch of steely blue like the highlight on a magpie's tail. The evergreens weren't green at all, but a violet umber, and the color of the distant hill was related to that of the trees, but with an atmospheric blue wash. Squatting down beside Ellen, who was on the verge of disgust and disappointment, I said, "Let's let those dry, and just look."

I came to Wyoming partially for the purity of the light, and what it does to color. For my first several years here, I couldn't get enough of the paintbox colors. *There* was an ultramarine sky; now I know it by heart. And *there* was white, unadulterated and uninfluenced, finally. And *there*, in the aspen leaves, was the true essence of yellow that's always wanted to exist in the world, the yellow that spoke from my original box of crayons.

Now I find I'm drawn to the stranger colors, the mixed, changing, mul-

tiple colors. On a single leaf of the brome here in front of me, in a series of fine gradations, I find a mineral green-blue, a light ochre, a purplish flesh color, a rusty orange, a brownish rose, and a purple changed by green. In a way, I'm back to the bewildered state of the beginning student struggling to identify and name these colors; now, though, I experience it as a pleasure and an invocation. In having to think of a base color and then pull in the needed comparisons, I'm developing a private language, each distinction opening the way to further nuance—endlessly, I hope.

To be able to distinguish among many colors is no vital skill except for artists and craftspeople. But there must be in all of us an intrinsic hunger to know color, to be intimate with it, a need as instinctive and unquestionable as the need for music. Colors have long been associated with certain virtues or humors; these days color therapists describe how colors alter our state of mind, how color preferences correspond to emotional processes we may be unaware of. Color seems no longer something external, inert, objective; rather it influences the way I move and speak, and affects my exchanges with the world.

My students, with their new watercolor sets, were full of a baffled yearning that I wanted to see satisfied. Some left the hillside at least pleased with the feel of the materials, wanting to try again. Others were embittered and felt they'd been cheated—by the paint, by the brushes, or by me, who had refused to disclose the secret method.

The other day a friend told me he's begun using color in his journal, in swatches. Just the colors themselves, not pressed into images or compositions—just colors set down as the lively, assertive things they are, subtle shades mixed to call up something private and specific. Next time, that's what I'll ask my students to do. ■

A Park in the Pacific

ANNE MEREWOOD

"It's safe, very safe," the man assured us, beaming broadly. He opened his desk and took out a six-inch nut-and-bolt combination. "Just a small problem. Samoa has run out of these."

I glanced out at the cable car waiting to swing us 1,600 feet up over the island's deep natural harbor to the summit of Mt. Alava, and pondered the contraption's mechanical complexities. The car was officially closed for repairs, but as a journalist I'd been offered the dubious privilege of a free ride. The only other way up was a five-mile hike, nearly vertical in places. As usual, the temperature in American Samoa was around 90 degrees, and even at 7 a.m. the humidity was oppressive. I mopped my brow, grabbed my spouse's arm, and climbed into the cable car.

It occurred to me, swinging giddily above the Pacific Ocean, that before the United States' newest national park is officially opened to visitors, American Samoa had better stock up on nuts and bolts.

The cable car deposited us on the summit, safe if shaky, then dropped

away into blue oblivion, leaving us to survey Tutuila, the largest and most populated of American Samoa's five volcanic islands. Below us straggled the city of Pago Pago; the small capital is a hodge-podge of marketplaces, dusty dockyards, pastel-painted homes, unsightly tunafish canneries, and government buildings topped with traditional Samoan thatched roofs.

Closer at hand was a creeper-covered rainforest of banana plants, towering palms, and human-size ferns. White-tailed tropic birds and fairy terns glided overhead; a tiny cardinal honeyeater flitted in a flash of red amongst the green. We edged our way down an overgrown incline and followed the trail into the depths of the rainforest that the National Park Service plans to protect.

The Park Service has long wanted to establish a Samoan national park, but little action was taken until 1985, when a group of U.S. conservationists came here to count bats. As Texas-based Bat Conservation International (BCI) feared, the population of native Samoan flying foxes had dropped from hundreds of thousands to a meager 10,000. Although Pacific islanders have always taken potshots at these tasty, slow-flying bats, excessive commercial hunting for export to Guam was proving too much for the gentle mammals.

In American Samoa your hosts appear at twilight

■

Within three months of the survey, American Samoa's governor banned bat exports. BCI and its supporters pressed on, enlisting the help of Ohio's John Seiberling, then-chair of the House Interior National Parks and Public Lands Subcommittee, and that of his successor, Bruce Vento (D-Minn.). Congress approved Samoan National Park in November 1988—one of only two national parks to be established during the Reagan administration. On paper, the park encompasses a coral reef and 8,500 acres of virgin tropical rainforest on Tutuila and Ta'u, a remote island where American Samoa's highest peak, Mt. Lata, rises to 3,170 feet.

Currently the Park Service is negotiating the terms of a land lease with island chiefs. (An "unincorporated" territory, American Samoa is represented in Washington by a nonvoting representative, and administered by a governor and legislative body elected by Samoans. Traditional chiefs, elected by extended families to head their village communities, play a crucial role in the government.) Some of them, like High Chief Gi M Malala of Pago Pago, fear the park is part of an attempted U.S. takeover. "We've always looked after our forests," he maintains. "Why do we need the Park Service?" But others are more concerned about recent disturbing changes in American Samoa; population is growing rapidly, for example, and increased agriculture threatens forested lands. Talking Chief Tuaolo, one of the islands' highest-ranking leaders, welcomes the protection the national park offers. "I prefer the park because individuals won't have the authority," he says. "It will preserve our culture."

The park will offer only minimal services: On Tutuila, an information center will be built at the base of Mt. Alava, and on Ta'u the Park Service will construct a campground and an information center; there will be shuttle service to trails. Some villages outside the park hope to provide guest-house accommodations and boat excursions along the spectacular coastline of high volcanic cliffs.

"The reason for the park is the rainforest," says Gary Barbano, a planner for the Park Service's Pacific Area office. "When visitors come, they will have to enjoy it on its own terms."

One evening we struggled up Mt. Alava—on our own terms, *sans* cable car—through thickly matted jungle to a rocky overhang. We waited. Twilight came, and as the forest filled with bird calls and the trilling crescendo of crickets, a flying fox sailed out from the cliff face, silent and massive, the biggest bat I'd ever seen. It didn't dart and dash like its small relatives, but floated—gray, fat, and oddly dignified. Hardly a beauty, but ancient and necessary. As we watched, another bat joined the first, and the pair swooped, circled, and glided lazily through the young night. ■

ANNE MEREWOOD *is a freelance writer in Jamaica Plain, Massachusetts.*

►*For more information, see "Resources," p. 149.*

AS IT HAPPENED

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High and Many

TOM TURNER

The winter had been harsh: By the spring of 1901 so much snow had fallen in the Sierra Nevada that most of the bridges on the Tioga Pass road had been crushed. Will Colby was worried that his experiment might go awry. With many bridges gone, with such big drifts still blocking the way in late June, how could he get enough supplies into Tuolumne Meadows to sustain more than a hundred people for two weeks?

It had been at the urging of the Sierra Club's young secretary that the nine-year-old organization had agreed to sponsor an outing into the Yosemite high country. Believing that no one in their right mind would want to go into the wilderness with such a throng, many Club directors were skeptical, and insisted that no Club funds be used to underwrite the trip.

Two weeks in the wilds with a horde of post-Victorians

President John Muir, however, supported the idea, believing that the forest-preservation cause would be strengthened if people went to the woods "to hear the trees speak." Plans for the first official Sierra Club outing (dubbed the "High Trip" a year or so later) proceeded.

Participants would assemble in Yosemite Valley, while flatbed wagons would grind up the Tioga road to Tuolumne Meadows bearing provender, a portable kitchen, tents, sleeping bags, and other equipment to feed and shelter the small army of mountaineers. Once safely settled in "Camp Muir," outing members would explore in all directions.

Departure was delayed as a wagon-train crew rebuilt bridges and dynamited deep snowdrifts. Finally, at 5 a.m. on July 13, the 96 hikers hit the Yosemite Falls trail.

The first night's camp was pitched at Porcupine Flat, 4,000 feet above the valley floor. Famished hikers dined on soup and hardtack, potatoes, beans, and corned-beef stew. They spread their bedrolls and blankets on beds of needles and boughs; for many, it was the first time they had ever slept on the ground.

The second night was spent at Lake Tenaya, and a ten-mile trek on the third day brought the group to Tuolumne Meadows. For the next two weeks the denizens of Camp Muir climbed nearby peaks, studied the natural history of the Sierra, and simply relaxed. As Ella Sexton recounted later in the *Sierra Club Bulletin*, "The music of the cascades nearby made lounging round camp perfection enough."

The trip broke new emotional ground as well. In his rendering of the outing in the *Bulletin*, E. T. Parsons wrote: "Nearly all of the women in this party were Berkeley or Stanford girls, and their vigor and endurance were a revelation to all of us. . . . One confirmed mountaineer said that it was the first time he had ever been camping with women, and that he had started in with serious misgivings, but after this experience he would never go to the mountains again without the added pleasure of [their] companionship."

Camp Muir was dismantled on July 29. "We looked our last on snowy mountains and rushing river," recalled Sexton, "and with precious cameras loaded with snap-shots or time-exposures, and more precious memories Time himself cannot obliterate, went out cityward assured of the Sierra Club's successful expedition." ■

As part of the Sierra Club Centennial Celebration, a re-creation of the 1901 outing is being planned for this June. See page 75 for details.

"Listen to the land and hear what it says."
Wallace Stegner

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Asleep in Detroit City

CARL POPE

As new fuel-efficiency technology floods the global auto marketplace, Chrysler, Ford, and General Motors continue to huff and puff, "We know we can't, we know we can't." Meanwhile, Japanese and European automakers steam ahead, not only certain they *can*, but proving it by rolling their fuel-efficient cars off cargo ships and onto American highways.

The Big Three are desperately afraid that they will be forced to invest in the retooling that environmentally sound technology requires. Should legislation by Senator Richard Bryan (D-Nev.) and Representative Barbara Boxer (D-Calif.) to improve the average car's efficiency by 40 percent be enacted, the industry's worst fears will be realized. To avoid this perceived calamity, Detroit has poured $20 million into an advertising campaign designed to equate fuel economy with small cars, and small cars with highway carnage. (See "Safe by Design," November/December 1991.)

The same week that campaign was launched, Honda announced that, while its 1992 Civic would indeed be bigger than the 1991 model, it would also feature a new "lean-burn" engine that would increase its fuel efficiency by 50 percent, to close to 50 miles per gallon on the highway. A few days earlier, researchers at Clemson University in South Carolina had revealed an inexpensive new camshaft that can be fit into existing auto assembly lines, and that enables auto engines to run on 20 percent less fuel. But because of Detroit's devotion to the past, the Clemson camshaft, like most advances in automobile technology developed in the United States, will probably show up first on imported cars.

The Bush administration, meanwhile, continues its vitriolic opposition to the Bryan-Boxer bill, claiming that such legislation would deprive Americans of their freedom to drive the vehicle of their choice. Evidently Chief of Staff John Sununu believes that socialism, homeless and adrift from its Soviet moorings, will arrive on our shores disguised as a Clemson camshaft.

Detroit's unwillingness to evolve has already cost it a third of the American market, and has created serious obstacles to improved pollution standards and fuel efficiency. But fear of change cannot indefinitely drive Detroit's business plan. The long-term health and competitiveness of American auto companies depends upon their becoming, once again, technological leaders, not laggards. Passage of the Bryan-Boxer bill could be the shock necessary to revitalize Detroit by putting engineers, not lawyers and lobbyists, in charge.

Congress may save Detroit from itself, but the broader pattern of the auto wars is likely to be played out in other industries. As the global marketplace changes faster and faster, the gap between innovators and malingerers will grow. The real opposition to environmental regulation will come increasingly from those sectors that have fallen behind—from dying firms, not dynamic ones.

The future belongs to the technologically nimble. Those industries that recognize the inevitability of environmental regulation—and change accordingly—will reap the benefits. American businesses will find that the steps they take to improve the nation's environmental quality will, in the long run, increase their own vitality. ■

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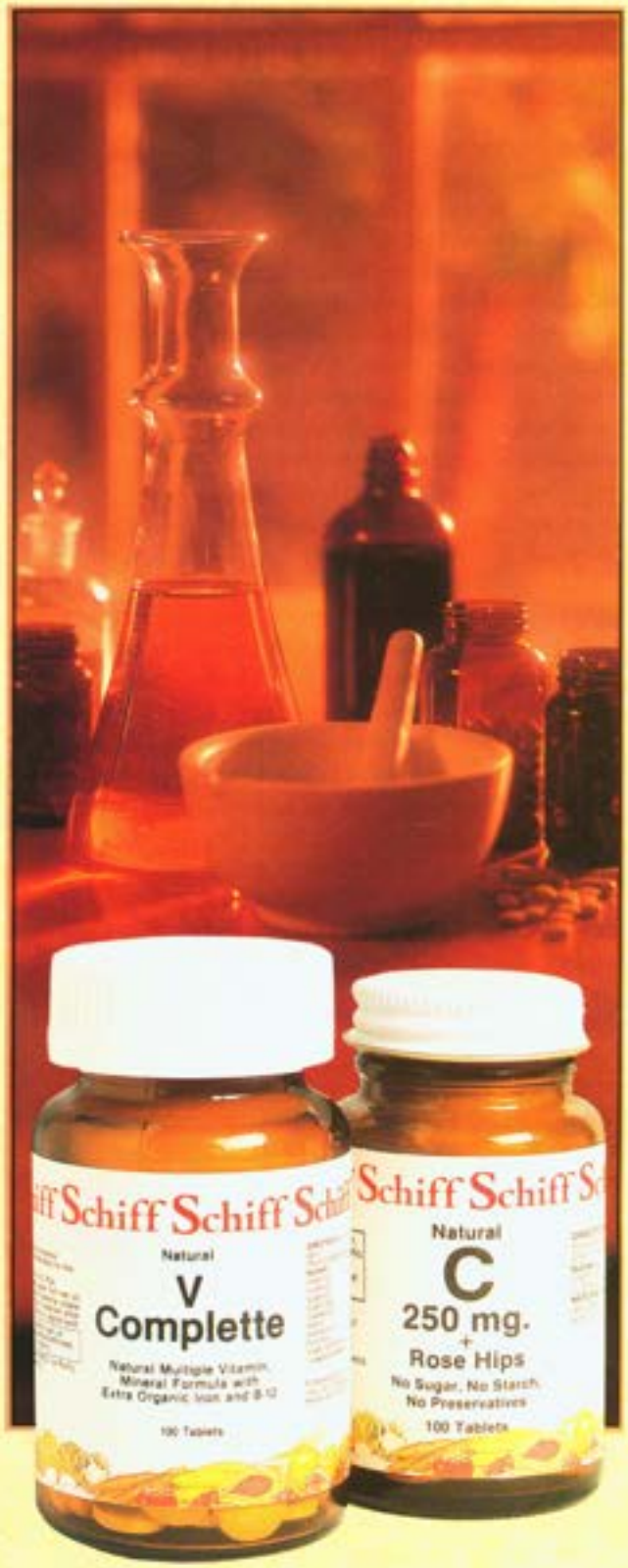

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BODY POLITICS

Current Events

MICHAEL CASTLEMAN

My wife and I used to sleep under an electric blanket, but recently we switched to a down quilt. We were sorry to see the old EB go—those dual controls were a boon to marital harmony—but certain opinions had begun to make us nervous: A growing number of researchers are claiming that because of the electromagnetic field (EMF) generated by the wires inside the blanket, each night spent beneath it might increase our risk of cancer.

Earth has a natural EMF, and all life has evolved within it. But over the past century this background field has been swamped by EMFs of the man-made variety; every electrical entity from high-tension power lines to the crock pot on your kitchen counter has its own EMF. Since 1979 several studies have shown a disturbing association between long-term exposure to power lines and several types of cancer in children and utility workers (though the correlation is disputed within the scientific community).

The EPA has yet to weigh in: Last July an expert review panel rejected as insufficient a 1990 EPA draft report that called EMFs a "possible" cancer risk. The reviewers told the agency that the draft "will have to be in effect rewritten" to incorporate new EMF studies, some of which strengthen the case for a cancer connection. The revised report is due sometime later this year.

There's a difference, of course, between the EMF surrounding the power lines that carry electricity from your utility's substation and the EMF emitted by your blender. The fields generated by power lines are constant and may extend to distances of 100 feet; most appliances are used relatively briefly, and their fields rarely extend beyond a few feet. While no data specifically link household-appliance EMF exposure and cancer, some researchers extrapolate from the power-line and utility-worker studies to infer a household hazard, just as advocates of organic produce extrapolate from data showing pesticide-related illnesses in agricultural workers.

Your toaster won't kill you, but take a few steps back

One such EMF scholar is Robert O. Becker, a professor of orthopedic surgery at the State University of New York at Syracuse who has written two books on radiation and health. Becker maintains that EMF levels greater than 3 milligauss (the unit of field intensity) are potentially hazardous to adults. A good number of household appliances can expose their users to more than that; a toaster, for example, can emit an EMF ranging from 10 to 60 milligauss. Many reputable scientists unaffiliated with the electric-power industry call the EMF-cancer research "inconclusive" and Becker's position "alarmist." But even some skeptics suggest lim-

iting EMF exposure in the home—just in case.

Risk of harm from EMFs depends on the strength of the field, your distance from it, and the duration of exposure. Field strength drops dramatically as you move away from the source: If you double your distance, your exposure drops to one-quarter of what it was. Four inches from a television, the EMF can measure 100 milligauss. At three feet, it plummets to less than 2 milligauss.

Not even those most concerned about electropollution suggest living without electricity. To minimize EMF risks, Becker and other authorities recommend taking a few precautions: Keep your distance from appliances; don't place beds against walls with major appliances nearby or on the other side; move clock radios, electric clocks, and telephone-answering machines at least four feet away from the head of your bed; sit at least arm's length from VDTs and six feet from 19-inch television screens; and toss the electric blanket.

It's also prudent to check the background field in your home; Becker argues that it should be no more than 1 milligauss. Being no electrician, and nervous about the tangle of utility lines that hang outside my house a mere ten feet from where my five-year-old son sleeps, I asked a local company that specializes in home EMF inspections to pay us a visit. The gaussmeter, bless it, read less than 1 milligauss.

Our biggest problem turned out to be the television: An inch from the screen, the field measured 15 milligauss. On the sofa six feet away, it was a safe 1 milligauss—proving that my parents were justified in nagging me to sit farther back from the TV. That was in the 1950s, and they were only worried I would ruin my eyes, but I'm grateful nevertheless. ■

►*For more information, see "Resources," p. 149.*

CHRIS TUTTLE

Turnings of Seasons

■

JOHN DANIEL

I must have been 13 or so when I announced to my mother that I would attend the University of Oregon and study forestry. I had never been to Oregon—we lived in a suburb of Washington, D.C.—but I had been reading Bernard DeVoto's books on the West, and I knew that Oregon must be the wildest place on Earth.

At 18 I did indeed head northwest, steering the rattling Jeep my mother had given me across the country and into the great state of my imagining.

■

The consolation of junipers, and other Northwest mysteries

Not to the U of O, however, but to Reed College in Portland. And not to study forestry—not to study much of anything, it turned out, in part because LSD came to Oregon the same year I did. Things got very clear and very confusing.

I left Reed and spent the late Sixties driving and hitchhiking between Portland and San Francisco, changing jobs, homes, and preoccupations at a pace I now marvel at. These days the tempo is slower, but I'm still traveling the same route, and the Northwest keeps pulling me back, pulling me home.

At first it was mostly the mountains. To a kid whose wildest expeditions had involved a few miles of the Appalachian Trail, the snowy Cascade volcanoes were sheer exultation. On

my first climb of Mt. Hood, with dawn just under way and fat stars glowing as I had never seen them, I stopped to watch a spider on the crusted snow and felt my mind and body as one happy whole, doing just what it was born to do.

I climbed with little skill but hungrily, as if crags and clouds and glacial brilliance were a secret language I was always on the verge of understanding. I came the closest, maybe, on Mt. Olympus in Washington: hiking from the Hoh rainforest to the high interior had been a kind of purgatory, and as windy vapors obscured and revealed the knifey peaks and ridges around me, I lay still as stone on the summit pinnacle, wanting nothing that was not there.

I had another relationship with the mountains as well. For parts of two years I worked within sight of Mount St. Helens, helping the Weyerhaeuser Timber Company strip its land of trees. Setting chokers on a high-lead side was hard work, but it was exciting in its violence, and it was educational. Seeing old-growth forest reduced to raw slopes and muddy streams occasioned the first twinges of an ecological conscience, but at the same time I learned respect for those I worked with —men who bore up with spirit under wearing and dangerous labor, many of whom knew the woods better than I ever will, and some of whom said quietly even then that the company was cutting too much and too fast. Riding home in the crummie one afternoon, amid laughter and the sharp smells of pitch and sweat, I vaguely realized that I was studying forestry after all, and it wasn't a simple course.

When I came north again in the Seventies after a spell in California, it was to a different land. I transferred to Klamath Falls for a railroad job, arriving on a dreary February morning not to dripping Douglas firs and tumbling streams but to sagebrush flats and barren hills studded with a few disconsolate junipers. Somehow I'd missed the fact that two-thirds of Oregon is desert and steppe. I decided I wouldn't stay long in that bleak country.

I stayed ten years, eventually quitting the railroad and devoting myself to writing. And what I found myself writing about wasn't bleakness but beauty—the smell of sage in a summer storm, the midnight colloquies of great horned owls, the big cloud-shadows that traveled the hills, the junipers turning to green flames at sundown.

In that plentiful sparseness my spirit opened, and as I lived and wrote through a few turnings of seasons I began to know the landscape not as a weekend playground or a passing scenic view, but as a place I might somehow belong to, though none of it belonged to me.

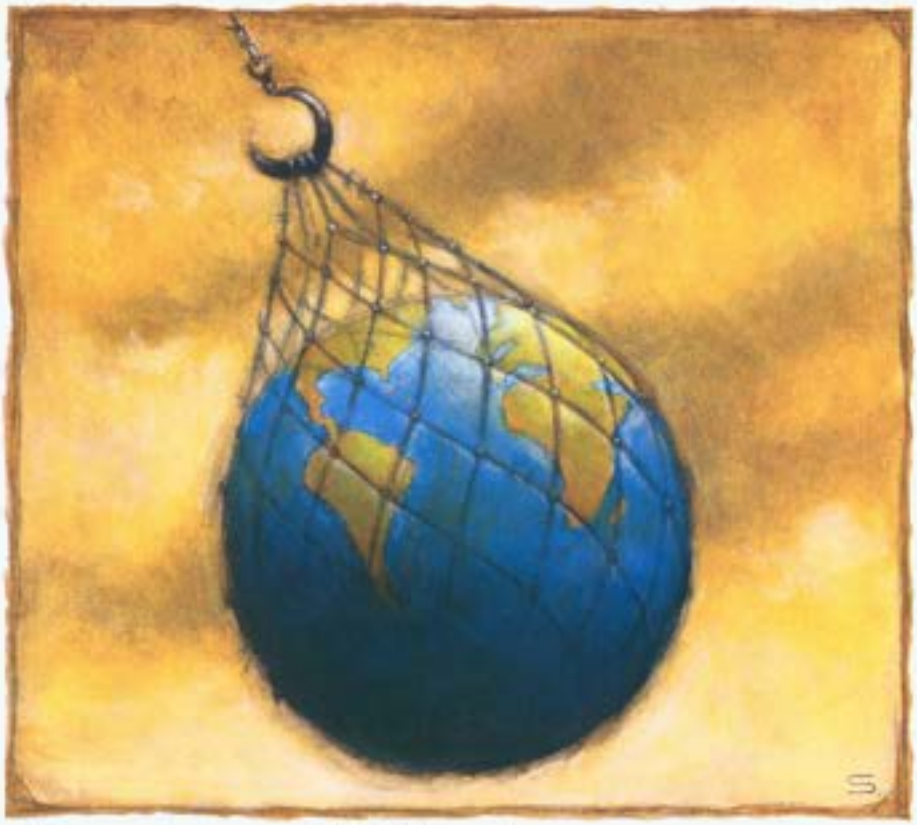
Most of the Eighties I spent south again, but now I'm back where I started 25 years ago—in Portland, where, if it isn't possible to feel fully at home, it's at least possible to make a living. As cities go, this is a good one, full of taverns and bookstores, and the gray, drizzly weather is a writer's weather.

I travel to the dry side when I can, and the taste for arid land I learned there takes me farther—to Death Valley, Baja, the canyon country of the Four Corners. I go for space and stillness, to know my wholeness by the clarity of stone and sky. Then home again, to the easy and insistent rain that falls here like a benediction, gurgling in my downspouts as it falls silently beyond the city in the ancient misted woods, where ferns and shrubs and trees and even words sometimes will grow. ■

JOHN DANIEL's *most recent book of poetry is* Common Ground *(Confluence Press, 1988). His collection of essays,* The Trail Home, *will be published this spring by Pantheon.*

Edited by Reed McManus

Trading Away the Environment



Meeting in a closed room in Geneva last June, three unelected trade experts from Hungary, Switzerland, and Uruguay conspired to kill Flipper. The conclave was a dispute-resolution panel of GATT, the General Agreement on Tariffs and Trade, ruling on a complaint by the Mexican government against the U.S. Marine Mammal Protection Act. The MMPA forbids imports of tuna from countries (like Mexico) whose tuna fleets kill large numbers of dolphins. This solicitude for marine mammals, Mexico asserted, is actually a disguised trade barrier. Besides, it argued, the United States doesn't have any business legislating what happens on the high seas anyway.

The GATT judges agreed, and ordered the United States either to amend its law or to face punitive duties on the products it exports to Mexico. Case closed.

The decision was a stunning reversal for marine-mammal conservation. David Phillips of the Earth Island Institute predicted 50,000 additional dolphin deaths a year as a result of the ruling, "the largest slaughter of marine mammals in the world."

Because of the extraordinary breadth of the GATT decision, however, potential victims of free trade are not limited to finny mammals. The panel decreed that countries are entitled to protect only those natural resources within their own borders; the global commons—the skies and the seas—are a free-for-all zone. Consequently, under GATT's interpretation of international trade law, many of the hardest-won gains of the U.S. environmental movement would be illegal. Out go international bans on driftnetting, whaling, and seal-clubbing, as soon as an offended nation challenges them under GATT. And if you want to protect the ozone layer, make sure you're acting in your own airspace.

On a roll, the panel went on to add that scruples about the manner in which other nations' commodities are produced or harvested are also trade barriers. If a GATT member country wants to finish off an endangered species, use poisonous pesticides, or employ child or slave labor, that's its own business. According to Eric Chris-

To international-trade negotiators, the natural world is just excess cargo.

■ ■ ■

tensen of the Community Nutrition Institute, the GATT panel's interpretation "systematically favors products produced in an environmentally destructive manner."

While the U.S. Trade Representative's office said it was "obviously disappointed" in the ruling, the Bush administration was not exactly heartbroken. Like the Reagan administration before it, it had vigorously opposed the tuna embargo all along, only deigning to enforce the law following repeated legal challenges by environmental organizations.

The administration's disappointment was more likely related to the decision's timing. Only months before, Bush had promised Congress that no U.S. environmental laws would be weakened as a result of the free-trade agreement with Mexico. The president is also hoping to win congressional approval for the results of the current GATT negotiations, known as the "Uruguay Round." This makes it inopportune, to say the least, to have to ask Congress to rewrite a U.S. environmental law to please a GATT panel in Geneva. Ralph Nader, testifying before Representative Henry Waxman's Health and Environment Subcommittee, called the ruling "a piece of political kryptonite." Waxman said it was "a worst-case scenario come true: the repeal of a vital environmental law because of a conflict with a trade agreement."

Even worse may be yet to come. When completed, the Uruguay Round will extend GATT's power to all "services," including agriculture and forestry. It also calls for the "harmonization" of product standards, a concept Nader calls "a euphemism for ratcheting down standards to meet a lowest common denominator." If Honduras and Sierra Leone can live with it, so can you.

GATT's obliviousness to environmental concerns is institutional. Nowhere in the agreement's founding principles, written in 1948, is the word "environment" even mentioned. At the beginning of the Uruguay Round, GATT negotiators explicitly decided *not* to deal with environmental issues. As Sierra Club Associate Executive Director Carl Pope concludes, "GATT simply does not believe that the environment matters."

While GATT judges can make authoritative-sounding pronouncements, their only means of enforcement is the assent of the disputing parties. The United States could reject the dolphin decision, but then why should Thailand accept GATT's decision forcing it to open its markets to U.S. tobacco products? A further complicating factor is that, because of a clause in the MMPA extending trade sanctions to "middleman" nations, the international community supported Mexico: On the dolphin issue, the United States stood alone.

The only solution, many critics believe, is wholesale GATT reform. As the agreement's biggest booster, the United States is admirably suited to begin that process. Nader suggests that Congress refuse to modify the Marine Mammal

Protection Act, and promise to reject any GATT that threatens health, safety, or environmental standards. The time has come, says the Sierra Club's Pope, to draw the line: Green trade or no trade. "We will never achieve our environmental goals," he warns, "if control over international trade is allowed to remain under an unreformed GATT."

—Paul Rauber

►*For more information, see "Resources," p. 149.*

The August Coup

Counterrevolution in the Rockies: The timber industry flexes its muscle.

Finally, the reformers go too far. Meeting in secret, hardline defenders of the old order scheme to preserve the discredited command economy. Then comes the coup—only this time, there is no one to stand on a tank, and the reformers are transferred or fired as the old guard resumes control.

Thus was preserved the umbilical relationship between the U.S. Forest Service and the timber industry, whereby the portion of our national forests available for logging (the "Allowable Sale Quantity," or ASQ) is determined not by environmental considerations, but by the economic desires of the timber companies and the political needs of the western congressional delegation.

In recent years, a few brave Forest Service professionals have revolted, saying that the politically mandated ASQs cannot be met without illegally damaging wildlife, water quality, ancient forests, and biodiversity. In 1990, Northern Rockies Region 1 (which includes 13 national forests in four states) fell 30 percent short of its goal of 1.3 billion board-feet. Congress ordered it to make up the shortfall in 1991, but by the end of the third quarter only 16 percent of the prescribed "annual harvest" had been met.

Region 1's director was John Mumma, a 32-year Forest Service veteran and the first trained biologist ever to hold the job of regional forester. While hardly a blazing environmentalist, Mumma was a stickler for the law. "We have been legislatively required to sell a prescribed amount of timber," he testified to Congress last September, "but we have also been told that we have to comply with environmental and other laws. I have done everything I can to meet all of my targets. I have failed to reach the quotas only because to do so would have required me to violate federal law."

The timber companies and their allies in Congress were apoplectic. In a May 23 letter, Senator Larry Craig (R-Idaho) sternly reprimanded Forest Service Chief Dale Robertson. "Dale, I am very disappointed with the Forest Service's accomplishment and accountability for timber outputs in Idaho and the nation as a whole," he wrote. "You have serious management problems that must be addressed. It is my hope you will move to assure targets are

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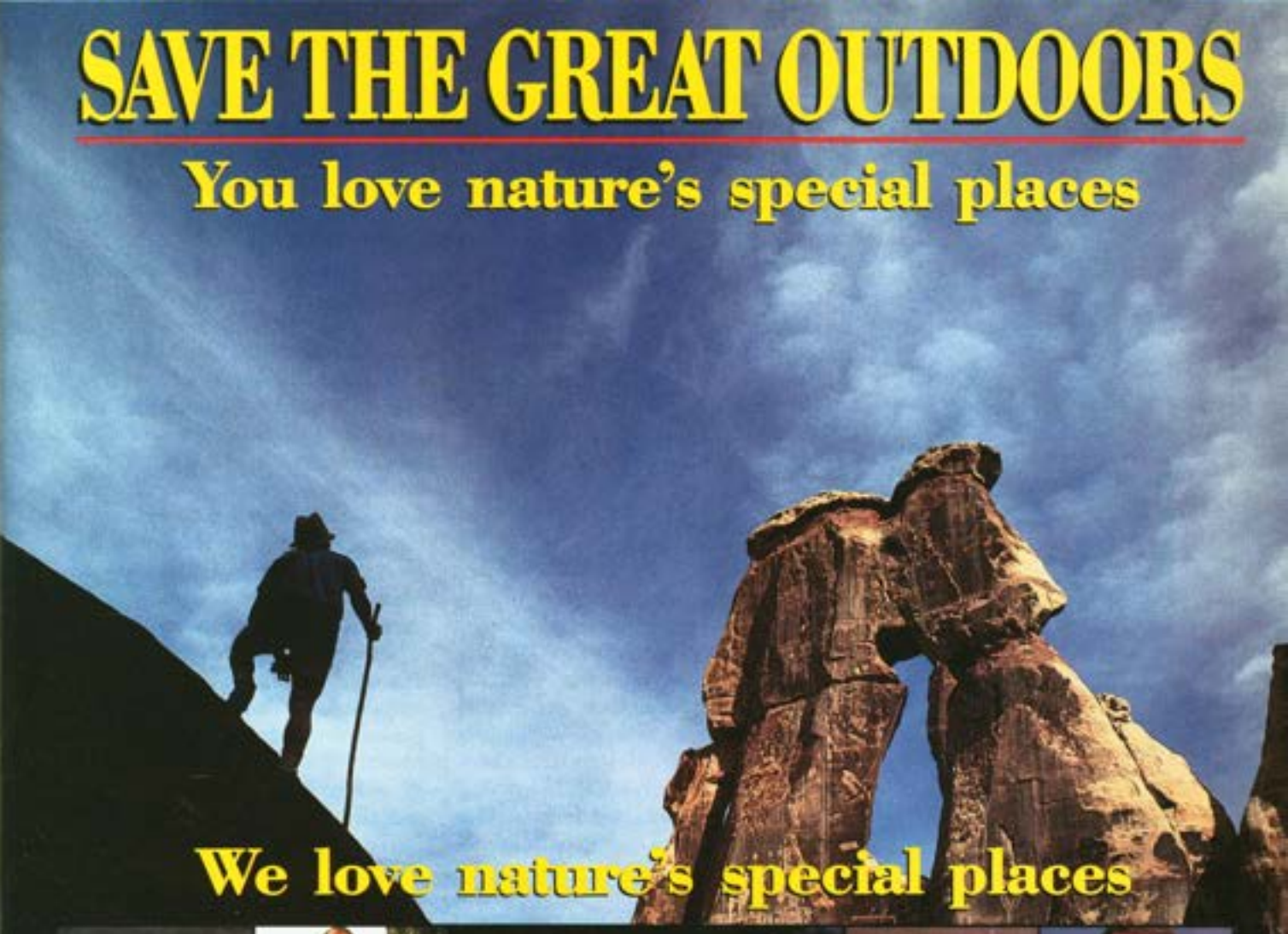

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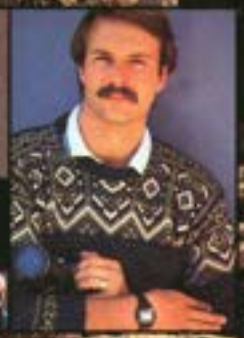
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PRIORITIES

met and line officers are held accountable." Craig's complaints were echoed by Senator Conrad Burns (R-Mont.) and Representative Ron Marlenee (R-Mont.).

The political heat being directed at the Forest Service is a result of the severe overcutting of private woodlands in the northern Rockies. (From the air, western Montana and northern Idaho look like checkerboards, forested areas alternating with clearcut land belonging to Plum Creek and other giant timber companies.) Having exhausted its own resources, the timber industry expects the Forest Service to increase the cut on the public lands, and is outraged when it does not.

John Mumma proved to be a convenient scapegoat. In June, western timber executives traveled to Washington, D.C., to meet with Robertson's boss, Secretary of Agriculture Edward Madigan. They wanted the hide of either the Forest Service chief or Mumma. Madigan chose the troublesome regional forester. On August 23, Mumma was called to a meeting at the Denver airport with a Forest Service superior, Associate Chief George Leonard. The meeting lasted only ten minutes; Mumma was offered a desk job in Washington or resignation. A week later, he resigned as "a matter of principle."

At the same time, the Forest Service sought to muzzle critics outside its own ranks. Among the largest roadblocks to timber sales in Region 1 (and elsewhere) are the administrative appeals filed by environmentalists; Forest Service Deputy Chief James Overbay suggested solving this problem by forbidding such appeals. "When we make a decision [on] a timber sale, we need to stick to it and not reexamine it," he said.

Sierra Club Montana Chapter Chair James Conner called for Overbay's dismissal, charging that the Forest Service was becoming "a Stalinesque bureaucracy that is contemptuous of the demands of fair play and the rule of law in a democracy." The Forest Service's problem with the appeals, says Sierra Club Northern Plains Staff Director Larry Mehlhaff, is that "we keep winning them. And we win them because they're breaking the law."

On September 24, the House Civil Service Subcommittee, chaired by Gerry Sikorski (D-Minn.), took up the Mumma affair. "I'm here with a heavy heart," Mumma said as he began his account, "a heart that's in shock at what's happening in the national forests."

The subcommittee also heard from Lorraine Mintzmeyer, the embattled director of the Rocky Mountain Region of the National Park Service. Mintzmeyer's sin was overseeing production of a "vision document" on the future of Yellowstone National Park and its surrounding ecosystem that included mild calls for natural-resource protection. Moderate as it was, Mintzmeyer's draft was attacked by Wyoming Senator Alan Simpson (R), as well as by White House Chief of Staff John Sununu, who declared it a "disaster." Mintzmeyer testified that Scott Sewell, a political appointee at the Interior Department, told her that he was going to rewrite the report "to retain the appearance that the document was the product of professional and scientific efforts by the agencies involved, but that in reality the document would be reversed based on strictly political concerns." Mintzmeyer objected, and was reassigned to Philadelphia.

"Civil servants must be allowed to do their jobs without the undue influence of the monied and the powerful and fear of political reprisal," said Sikorski, whose subcommittee is continuing its investigation. "We will get the truth."

Despite the scandal it provoked, the recent head-rolling in the Rockies made its point. "This was a way of crushing dissent very openly," says Sierra Club Washington, D.C., lobbyist Jim Blomquist. "I think industry likes the fact that it was so public: When you can do that and get away with it, it shows how powerful you really are."—*P.R.*

The Species Axe

A prized conservation law lies on Congress' chopping block.

Interior Secretary Manuel Lujan was characteristically blunt: The Endangered Species Act is "just too tough," he told a *Denver Post* reporter in 1990. "We've got to change it."

Lujan's long-suffering aides later tried to temper the dictum by saying that it was a personal opinion, not a statement of Interior Department policy. But environmentalists have taken his pronouncement—and a storm of protests from loggers, ranchers, real-estate developers, and their allies in Congress—as fair warning. Dissected with increasing frequency in the courtroom and the media, the venerable Endangered Species Act is now as threatened as the animals it seeks to protect. The drama could culminate this year if Congress decides to re-examine (or, as Lujan's soulmates would have it, "rewrite") the 19-year-old law.

The ESA has raised hackles before, especially when its provisions allowed the tiny snail darter to temporarily block construction of the Tellico Dam in Tennessee in the late 1970s. Ironically, eight years of inaction by the Reagan White House turned up the heat, leaving the Bush administration with numerous lawsuits and species on the brink of extinction. The northern spotted owl, the Pacific salmon, the Delta smelt, the California gnatcatcher, the northern goshawk, the desert tortoise, the gray wolf, and the Colorado squawfish: Each of these highly publicized and troubled species has a pack of angry *Homo sapiens* howling that the act puts plants and animals before people.

For five centuries in North America it has been the other way around. As white settlers have pushed past each successive frontier, they have stomped, cut, dredged, bulldozed, shot, or otherwise obliterated whatever has gotten in their way. Those old habits were challenged by the Endangered Species

Act of 1973, which set up an elaborate process aimed at mutual coexistence.

The law's basic thrust is simple. The executive branch (through the Fish and Wildlife Service and the National Marine Fisheries Service) must identify and protect creatures facing imminent extinction. The act has already come to the rescue of species including the red wolf, bald eagle, whooping crane, peregrine falcon, alligator, and gray whale. Because it's one of those rare statutes that compels action, not just analysis, it's one of conservationists' most valuable tools.

No wonder the ESA's opponents have chosen to go for its very heart. The "Human Protection Act" introduced by Utah Representative Jim Hansen (R) would weigh a species' value to society, measured in dollars and cents, against the cost of saving it. This concept delighted the more than 300 anti-ESA crusaders who flocked to Capitol Hill last fall, but it mocks one of the Endangered Species Act's purposes: keeping species from "becoming extinct as a consequence of economic growth and development."

While the act isn't and shouldn't be driven by economic concerns, it does give them serious consideration. Of the 28,000 consultations that the Fish and Wildlife Service has yearly with developers about endangered-species conflicts, "I can count on the fingers of one hand the number of projects that have been stopped," says Christine Enright, coordinator of the agency's Division of Endangered Species.

Typically the act modifies rather than quashes plans. Real-estate developers are told to cluster their houses to make room both for butterflies and for humans. Would-be swamplords are directed to upland areas. Shrimpers are instructed to use "turtle exclusion devices," not to give up the ship.

The court of last resort for disgruntled developers is the cabinet-level Endangered Species Committee. In cases where "reasonable and prudent alternatives" can't be found to a proposed development, this so-called God Squad can be convened by the Secretary of the Interior to decide whether saving a species is worthwhile. Invoking the God Squad has proven necessary only three times in the history of the act, most recently last October when Lujan ordered the group to consider writing off the northern spotted owl.

As the D.C. deities ponder the value of spotted owls, Congress faces a 1992 deadline for reauthorizing the act that made the birds a cabinet-level concern. This being an election year, Congress may opt to delay the politically divisive debate for a year or more. But should it decide to act now, the conservationist-backed Endangered Species Coalition is ready with a defense of the act and a fistful of strengthening amendments. For one thing, the coalition wants to speed up the process of listing endangered species. (The 639 species listed as of September 1991 represent only about a seventh of those in drastic de-

cline.) It also wants better protection for the species that *are* on the list. (Recovery plans haven't been completed for more than 250 listed species.) It is also drafting provisions to protect endangered ecosystems and to prevent species crises in the first place.

Both sides claim to be seeking ways to avoid time-consuming and expensive conflicts like those taking place now over the ancient forests of the Pacific Northwest. The humans-first camp hopes to reinstate the old pioneer freedom to make a living without constraint. Conservationists and their allies have taken on a more difficult challenge, but one infinitely more appropriate for our times: that of shaping a world in which humans can flourish without waging war on other species.

—Joan Hamilton

▸For more information, see "Resources," p. 149.

One Paw Over the Line

Should Alaska's favorite bears be shot by hunters or by photographers?

Other than eruptions of Old Faithful, it may be the most-photographed "scheduled" natural spectacle in the country: a grizzly, chest-deep in the rushing waters of an Alaskan stream, clutching a just-caught salmon in its jaws. Like clockwork, brown bears arrive every summer at the McNeil River to feast on the plump salmon whose tenacious upstream journey is slowed by the relentless pounding of McNeil Falls. The scene is a quick course in raw nature at work, a ready-made promo for the Last Frontier's division of tourism.

But even in this remote, roadless corner of south-central Alaska, the image is carefully managed. To keep at bay the clumsy species that has staked out the top of the food chain, human encroachment is heavily regulated at the McNeil River State Bear Sanctuary. Hunting is prohibited, and tourists must apply months in advance for a one-in-ten chance of being granted the opportunity to gawk at upward of 65 bears from a viewing area. The bears get dinner, the tourists get photos, and the fish go to heaven.

But bears will be bears, and a recently constructed fish ladder three miles north could lure the grizzlies away from the refuge and adjacent Katmai National Park to a new, larger banquet spread along the Paint River. There the human-tolerant bears will be in for a rude surprise. Hunting is allowed in virtually all of the Paint River watershed, and so is killing bears "in defense of life and property"—no small concern in an area sprinkled with hunting and fishing camps and their detritus. Even if the bears do survive a walk on the wild side, they could learn to associate humans with food—threatening the balance between man and bear at McNeil and Katmai.

These subtleties weren't considered when the Army Corps of Engineers approved construction of the fish ladder in 1988. In Alaska you don't say no lightly to hunting or fishing "enhancement," and the Cook Inlet Aquaculture Association, a commercial fishermen's organization, pushed its plans to introduce more than half a million fish to the Paint River with the zeal of a hungry grizzly. (The Paint has never been a salmon spawning ground; the ladder would allow fish to move from saltwater Kamishak Bay up the river for the first time.) After performing a cursory environmental evaluation and providing what many parties charged was inadequate opportunity for public comment, the Corps issued a permit and construction began.

Wildlife agencies and activists scrambled to oppose the project. Five conservation groups, including the Alaska Chapter of the Sierra Club, filed suit to force the Corps to draw up a full-scale environmental impact statement. The National Park Service complained to the federal Economic Development Administration (which helped fund the fish ladder) that the impact of the project on Katmai Park and on the bears' migratory behavior had not been considered. Their complaint elicited a stern reply: You had your chance to comment back in 1988, and you blew it.

But mounting criticism convinced the Corps that maybe there was something to that man-shoots-bear story. Last summer it began reevaluating its 1988 permit, starting with a reopened public-comment period. It soon became apparent that McNeil's bears have a following that Yogi and Boo-Boo would envy: Bear-boosters deluged the agency with protests.

In the meantime, the Alaska legislature voted to expand the McNeil Sanctuary—but only to cover a narrow band of the bears' probable new stomping grounds. The Paint's upper watershed remains a game refuge—wherein hunting is allowed. The state Department of Fish and Game (which manages the McNeil Sanctuary) supports restricted hunting; what are a few dead bears, it asks, when most experts agree that "some" hunting won't affect bear populations as a whole?

The response from wildlife biologists and conservationists has been swift: Not only could the huge new food source on the Paint draw bears away from the sanctuaries, but it's unethical to hunt animals that are habituated to humans. Many places in the state are open to hunting; surely the area around one of the world's prime bear-viewing sites could be spared.

At *Sierra*'s presstime the Corps had not unveiled its revised environmental review. If the agency decides to produce an environmental impact statement, the conclusions will be made public in about a year. If the Corps thinks everything is going swimmingly, Friends of McNeil River will push on with its lawsuit.

With the salmon ladder up, the pressure is on to open it: The commercial fishermen's association is unwilling to watch its $3-million baby sit idle when the sockeye start running in July. But without adequate protection, McNeil River's high-profile bears will need to learn to duck as well as to pose. ***—R.M.***

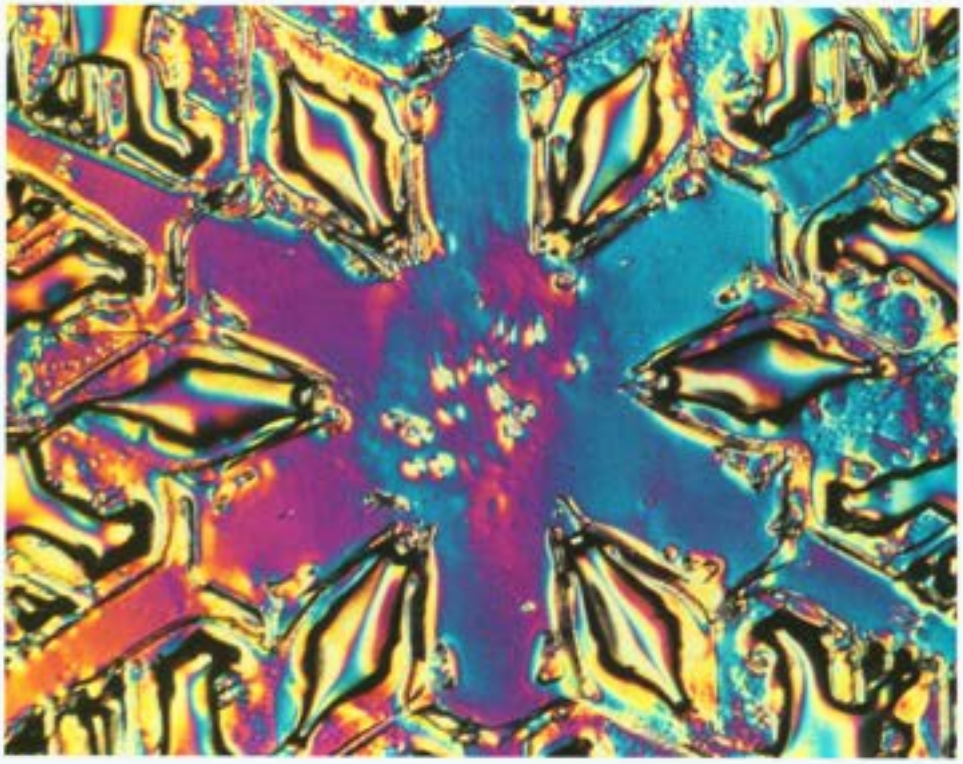
▸For more information, see "Resources," p. 149.

C. L. Rawlins

Conditions of Light

"It's time," said Charlie.

The moon rose in a clear sky until it shone parallel to the dropoff under our ski tips. The ridgetop was a white ribbon between blue and black, each curve scooping down into darkness. To the east we looked out on a broad valley filled with a frozen lake. To the west, ridges rose like waves to the horizon.



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The moon drew a shadow like a dark-blue sail up toward the cornice as the bowl opened in the light, the snow glinting hard flashes of violet, blue, and pink. The glow rolled down and splashed on the black pines far below. A new world opened at our feet. The snow and the mountain under it seemed themselves to be conditions of light.

"One, two, infinity," Charlie said, and we pushed off the edge.

That was it: the sudden acceleration of the air, the second or two of accommodation when the backbrain leaps, the limbs snapping into the first turn—a swerve from the fall line that is never automatic. And the gust of powder lifting from the ski tips in a cloud, and the second turn, and the third, again, again.

As I relaxed into the rhythm and the angle eased toward comfort, I noticed that I was skiing into my own shadow. In the cup of each turn a cloud of fine snow would dust from my tips and hang as I fell through it. I could feel it on my face, a brush of cold, as if the air itself materialized for an instant. With each turn, a tiny rainbow would spring up and then dissipate as I dropped through it—a new thing in the world, so brief it was gone just as I realized it was there.

I laughed with surprise, in delight. And I heard an echo—Charlie was laughing too. I laughed back, harder, and he whooped and I whooped. I hit each turn just right, locked into perfection, at home in the world. As tears blinded me near the bottom of the bowl, I fell into the the snow and lay still. I heard Charlie cut and fall. We lay ten yards apart, laughing again.

Later I searched for a word for what I had seen. *Rainbow?* There had been no rain. *Snowbow?* Ridiculous rhyme. *Ice-bow?* Closer. I settled on *moonbow,* and composed a definition:

moon'bow 1. *n.* a spectral arch or band, with colors resulting from reflection, refraction, and diffusion of moonlight by snow crystals suspended in air. 2. *n.* a marvel; a vision of unlikely beauty; a wonder.

The greatest poverty
is not to live
In a physical world.

– Wallace Stevens

◆ ◆ ◆

For spectral effects, light must pass through two substances. Charlie and I had air and ice—the crystallized snow formed under the night sky. The moonlight was bending, or "refracting," as it passed from one medium to the other. It was slowing down, just as a skier would when entering a patch of heavy snow. At the moment of slowing the skier's body is traveling faster than the skis for an instant and will bend forward to adjust—a rough analogy for the behavior of refracting light.

The angle at which the light refracts varies with its wavelength. Picture our curving ski tracks: two turns, left and right, equal one wavelength. If the turns are tight, the wavelength is short; if they are more open, the wavelength is long. The longest wavelength of light that we can see is red—then come orange, yellow, green, blue, and finally violet. When striking an ice crystal, white light (which contains all the colors of the spectrum) is separated according to wavelength into its constituent bands of color.

Once inside the crystal, the light reflects off inner surfaces if it hits them at a low enough angle. If it strikes a surface at a higher angle, however, it will refract from ice to air, each wavelength following its own path and emerging at a different point.

So: The sun burns, throwing light in all directions. A tiny part of it reflects from the moon. The moonlight enters the atmosphere, crosses the mountain crest and floods the steep bowl. As Charlie and I stir the dry powder into clouds with our skis, the light winks in and out of the tumbling crystals, a wild game of angles, reflecting, refracting, diffusing, sending the lucky flash into our eyes. Zang! Moonbows—green, blue, and violet.

Explanation is satisfying, but never as sweet as the act. I recall that night because of its unpredictable beauty. We went out to cut didoes down a steep bowl by moonlight. We craved the strangeness of skiing by night and the lonesomeness of the whole enterprise. We were prepared for the dark, the cold, the out-thereness of it all . . . but not for the moonbows. ■

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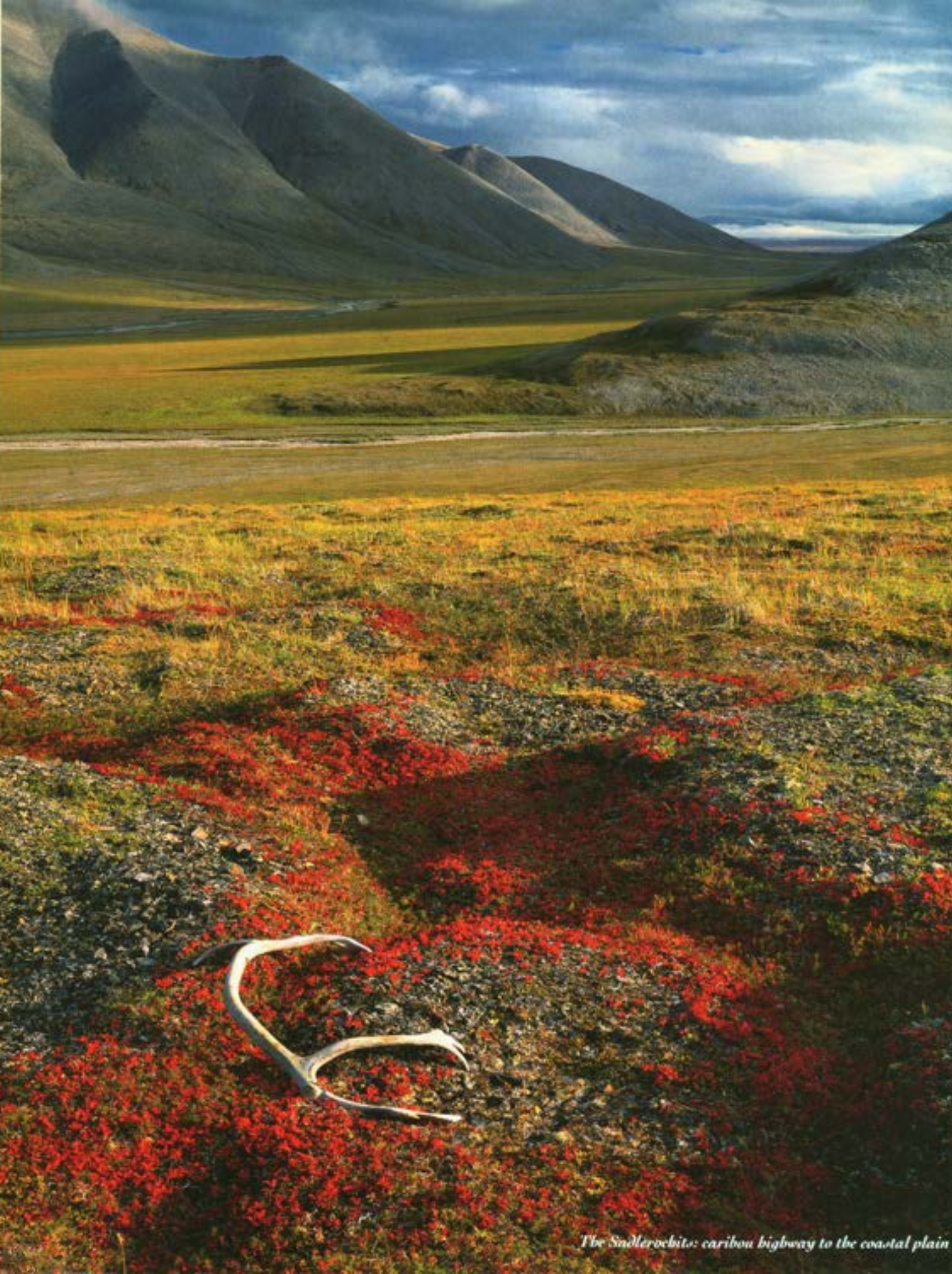


The Sadlerochit: caribou highway to the coastal plain

LAST REFUGE

Bog-trotting the Arctic National Wildlife Refuge with martinis, false idols, and chili bombs—while back on Capitol Hill, grassroots power proves itself again.

by Paul Rauber

Having never flown over the Arctic in a small plane before, I wasn't sure if our bush pilot's behavior constituted cause for alarm. As we droned into a snow flurry level with craggy mountainsides, he pulled a large topo map from overhead and, holding it in front of his face, studied it intently. Then, grabbing hold of a strut for support, he leaned halfway out the window, searching for landmarks through the swirling clouds below.

Somewhere ahead was the pass that would take us over the spine of the Brooks Range, the barren, spiky mountains that roughly divide the Yukon River drainage from the 19-million acre, Maine-size Arctic National Wildlife Refuge. We were bound for Sunset Pass, a broad valley on the northern slope of the Sadlerochit Mountains, the last hurrah of the Brooks Range before the coastal plain. This was to be our jumping-off place for ten days in the last fully intact arctic ecosystem in the United States, wild beyond any wilderness in the Lower 48. If only we could find it in the storm.

There were ten of us on this Sierra Club outing, led by veteran Alaska hand and wilderness guide Wilbur Mills. All afternoon, pilot Roger Dowding had been ferrying us from the tiny Gwich'in community of Arctic Village in groups of two and three—that being the capacity of his 30-year-old single-engine Cessna 185. (We didn't learn until later that when he bought it, the plane had been resting at the bottom of Sitka Sound.) He had already flown the rest of our party out to Sunset before the weather turned. Unfortunately, it turned while we were still several thousand feet above the ground.

Roger (who bears a strong and, under the circumstances, disturbing resemblance to Jack Nicholson) was used to dealing with queasy passengers. "Gummy worms, anyone?" he asked, turning to offer us a sack of candy. The Irish New Age music on our headsets created the perfect ethereal soundtrack for the passing display of mist and tundra and raw talus slopes spotted with snow. Roger liked the music too; it kept many people from throwing up, he said.

The higher up the valley we got, the denser the clouds became; by the time we got to where the pass should have been, they formed a wall as white as my knuckles. It was not a time for delicacy. "Roger," Michelle asked,

"Aren't you afraid of crashing into the side of a mountain?"

"It scares the shit out of me," he replied. At the last moment he aborted, wheeling sharply on one wing to retreat back down the valley.

The weather grew worse. The pass up the next valley proving no more penetrable, we flew around the whole damn mountain range, emerging at last onto the coastal plain itself, which stretches 20 flat miles from the Sadlerochits to the Beaufort Sea. Here it was—either the biologic heart of the Arctic Wildlife Refuge, or what might one day become the Arctic National Petroleum Sacrifice Area.

We had to fly very low to stay beneath the weather. The noise of our engine sent hundreds of brown specks scattering in every direction over the tundra—caribou, forerunners of the mighty Porcupine herd, which by July would gather on this spot in the hundreds of thousands. Now, in late June, the cows had just given birth, and scores of tiny calves galloped behind in search of that special teat.

Thick clouds still clung to the mountains, making an approach to our base camp impossible. Reluctantly we gave up and turned back the way we had come, flying nowhere in particular over a maze of braided rivers and standing ponds. (Should the plain someday fall into the eager hands of British Petroleum, ARCO, and Chevron, there will be 50 to 60 new pools here, wastewater pits with capacities of 13 million gallons each.)

We had been in the air for two hours, and were beginning to run low on fuel. Casually, Roger began to query us about the contents of our packs. Food? Well, yes, we had some—all the lunches and dinners for the entire group, as a matter of fact. Tent? Yes, we had a tent; why do you ask?

A Line in the Tundra

The Sierra Club and the environmental movement won a major victory on November 1, 1991, when the Senate effectively killed the Johnston-Wallop energy bill, a provision of which would have authorized oil drilling in the Arctic National Wildlife Refuge. A massive grassroots effort convinced a bipartisan coalition of senators to "draw a line in the tundra," as Senator Joseph Lieberman (D-Conn.) put it, by threatening a filibuster to block consideration of the bill. Proponents of drilling fell 10 votes short of the 60 they needed to stop the filibuster; the bill never even made it to the floor.

Senator Bennett Johnston (D-La.), coauthor of the energy bill, graciously conceded that "environmentalists wrote the textbook on how to defeat a bill. My admiration goes to them for the political skill they exhibited." Congress is now struggling with new energy legislation, but because of the magnitude of Johnston-Wallop's rout, the Arctic is safe for the time being.

The oil industry, however, is already planning for the next round. "We really weren't pinning our hopes on it this year," ARCO told the *Los Angeles Times*. "We hope that if it's not this year, it's next year . . . We have a very active program in Alaska. We will continue that."

The Arctic Refuge will be at risk until it wins wilderness protection. Sierra Club members are urged to write their senators and representatives (addresses available in "Resources," page 149) in support of S. 39 in the Senate and H.J. Res. 239 in the House, which would grant *permanent* wilderness status to the Arctic Refuge.—***P.R.***

Roger had a plan. He knew of a little landing strip on the Canning River, on the western edge of the refuge, where he proposed that Michelle and I camp until the weather lifted. Given the alternative—flying back over the mountains through a snowstorm in a plane running out of fuel—we happily assented. "You guys sure are brave," he kept saying; we didn't know why.

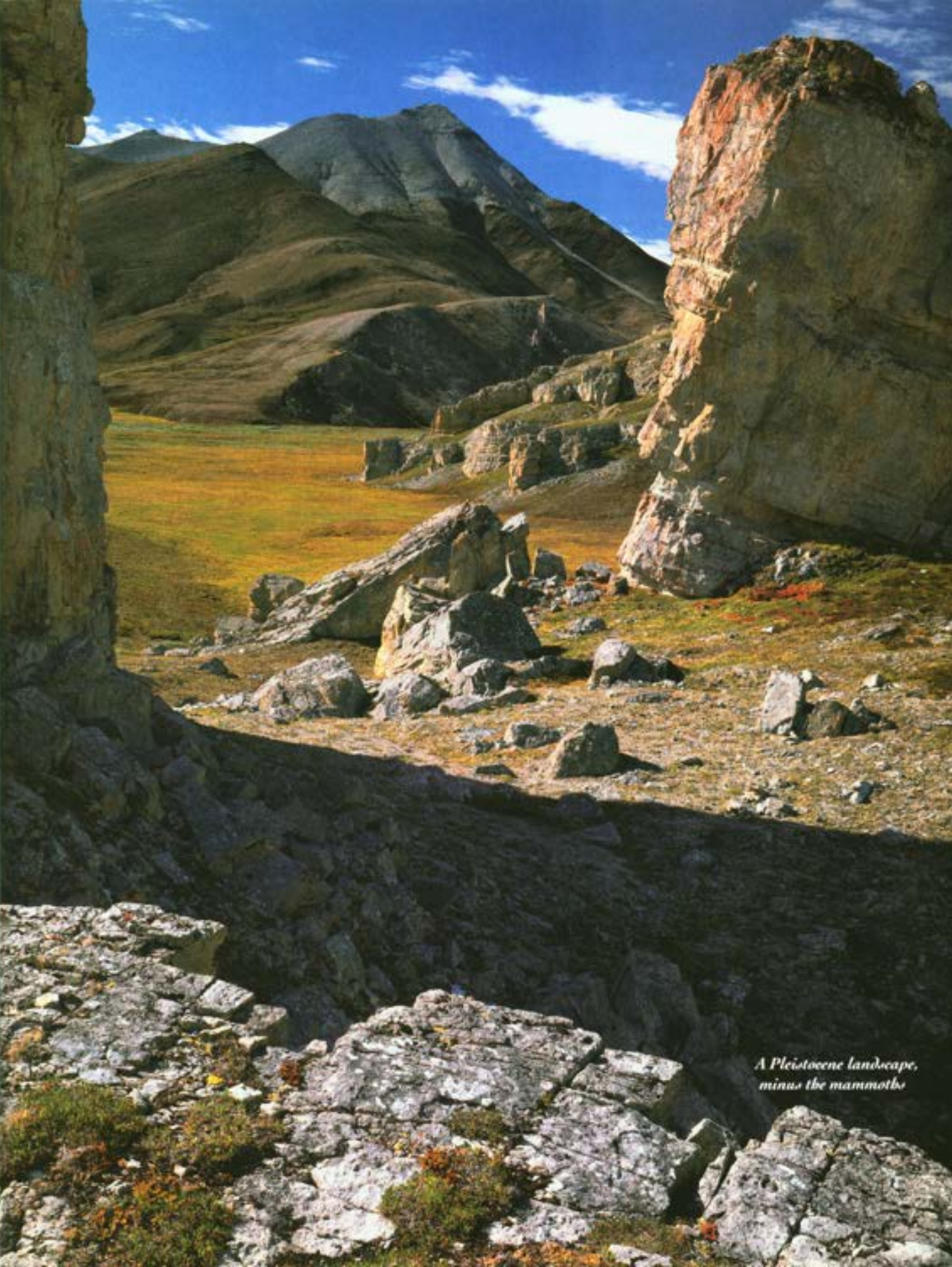
The "Canning Main Strip," as Roger insisted on calling it, turned out to be a flat bit on a rocky river bottom marked by a toilet seat on a bush. After a landing that hit 7 on the Richter scale, our first task was to scour the scrub willow for a five-gallon can of fuel Roger thought one of his buddies had left there just in case. We found it—empty. We also found the well-chewed skull of a Dall sheep, and the largest bear track I have ever seen.

Michelle once again cut to the heart of the matter. "What do we do if a grizzly comes?" she asked as Roger prepared to taxi off. He reflected for a long moment before offering his best advice: "Do the best you can." Then he took off into a strong headwind and quickly disappeared up the valley, leaving us as alone as two people could ever be.

It was freezing and blowing snow. We had come looking for desolate wilderness: This was it. We had also come expecting balmy days and midnight suntans: This was not it. We set about survival work—setting up the tent, gathering driftwood for fuel, fetching water. A long day passed, then another, with no break in the dismal snow and clouds. We were well within the Arctic Circle, but all we got from the midnight sun was a uniform cloudy twilight that grew slightly duller and colder at "night." We set the Dall sheep skull up on a rock where, as the days went by, we would consult it for signs and portents as to when the weather might turn, occasionally even dancing around it—only to keep warm, of course. William Golding would have winked.

For all we knew, Roger had crashed on the way back to Arctic Village, and this could be our permanent new home. I tried thinking like a Cro-Magnon: How does one go about killing a caribou? To practice stalking, we followed a caribou trail through the fresh snow—until we realized by the tracks that a grizzly had joined us in the same endeavor. At this propitious moment the clouds lifted; ten minutes later, we heard the burr of Roger's plane coming down the valley.

No sooner were we all airborne than the storm resumed; Roger swore never to fly with us again. Clouds wreathed the final pass—or where it ought to have been—but this time we plunged ahead, and after a horrible minute of



A Pleistocene landscape, minus the mammoths

white opacity burst through to the Sunset Pass. Soon we were circling the level patch of bog that served as an airstrip, this one marked by an orange ribbon fluttering from a bull caribou horn. The multihued figures of our comrades, bright against the tundra, came running to welcome us with an enthusiasm that we trusted was unrelated to the boxes of dinners and lunches we bore. (All they had eaten for the last three days was gruel and granola.)

Our new neighborhood was already densely populated. Scattered caribou grazed watchfully beyond our tents, and a red fox trotted purposefully by. Along the streambed were excavations big enough to warrant Environmental Impact Reports, signs of a bear in pursuit of ground squirrels. A dayhike to view the Romanzof Mountains brought us face to face with four curly-horned Dall rams sitting on a ledge, gazing at us with the placid miens of high-court justices. Our loud advance flushed several rock ptarmigan, still in snowy winter plumage; with froglike croaks they flew off over the tundra.

Only half a mile from camp we encountered Mr. Bruin, a fat griz dozing on a rock 70 yards upwind. Wilbur's advice in this situation was not much more helpful than Roger's. Should the bear charge, he advised, stand your ground and hope it will catch your scent and flee. Otherwise, play dead until you are.

This even-handed approach to wildlife encounters is far from universal. Most other visitors to the refuge rely on the more traditional expedient of large-bore firearms. (A lone wildlife photographer camped across the valley was so heavily armed that we dubbed him GI Joe.) Not that we were entirely defenseless: Our arsenal consisted of an aerosol bomb capable of spraying a cloud of capsaicin (the active ingredient in chile peppers) 20 feet. Opinion was divided as to whether this would scare a bear away or merely sharpen its appetite. Fortunately for both parties, Bruin slept on.

Finally we shouldered our loads and moved west on the first leg of a long

KATHY DAWSON

loop, skirting the southern edge of the vast coastal plain. To the oil companies, this is the cartographic abstraction called the 1002 Area (pronounced "ten-oh-two"), the supposed answer to America's energy woes. It is also the Achilles' heel of ANILCA, the Alaska National Interest Lands Conservation Act of 1980, which, in addition to creating numerous new parks and wilderness areas, established 16 new wildlife refuges and greatly expanded the Arctic Refuge. Overall, ANILCA was a triumph for the conservation movement, but terrible sacrifices were made to win it. One was the huge timber cut in the Tongass (see *Sierra*, January/February 1991); another was Section 1002. Out of deference to the pro-development Alaskan congressional delegation, Congress withheld wilderness protection from the coastal plain, leaving the possibility of drilling for oil and gas open pending further study.

There is no denying that the coastal plain is an inhuman spot, made for caribou and not for bipeds. Hiking on the tundra is like walking on a leaky waterbed. Tundra, after all, is only a thin organic sponge of lichens and grasses sculpted into upraised colonies called tussocks, sitting atop an impermeable ice cube of permafrost. Between the tussocks are puddles that, depending on the season, are either icy slush or mosquito incubators. The water can't seep into the ground, so it tries to get into your boots. This leads to tundra-hopping, the wearisome and inevitably futile practice of leaping from tussock to tussock in an attempt to stay dry. Sooner or later a misstep sends the bog oozing in, as though it were trying to suck you into itself. I

A wilderness custom-made for caribou, where cool breezes provide a respite from bloodthirsty bugs.

remembered Seamus Heaney's poem about the Grauballe Man, the sacrificial corpse found preserved in a Danish bog:

> *. . . as if he had been poured*
> *in tar, he lies*
> *on a pillow of turf*
> *and seems to weep*
> *the black river of himself.*

The caribou move through the tussocked landscape effortlessly, their tendons making odd clacking sounds, mocking the humans who plod behind. Their suffering will come later in the season, when clouds of voracious mosquitoes will drain them of, depending on which expert one believes, from a pint to a quart of blood a week. (The range of scholarly opinion on how much blood can be sucked from caribou is exceeded only by that on how much oil can be sucked from the coastal plain.) The caribou put up with it only because the lichen is tasty and the breezes off the icecap blow away some of the bugs.

Proponents of oil drilling eagerly seize on this essential inhospitability. "A flat, crummy place" was the famous formulation of Harold Heinze, the former ARCO executive who is now Alaska's commissioner of natural resources under Governor Wally Hickel. After flying over the refuge, California Senator John Seymour gave this report: "My wife asked me, 'Honey, what did it look like?' I said, 'It's like when you fly over the ocean, you see water, water, water. When you fly over the [refuge], all you see is snow.'"

All we saw was bog—beautiful in its way, pockmarked, varicolored lunar meadows marching to the horizon, but bog all the same. Punchy with exertion, we turned to heresy, imagining how paving might improve the landscape: This bit could be the BP Golf Course, that bluff the Exxon Bar. We slid down a steep snowbank to lunch on crackers and peanut butter in the bed of Marsh Creek, which was heavily larded with what did indeed seem to be oil shale. This area, Wilbur mentioned, had been identified as a likely spot for drilling. Our jokes fell flat after that.

We camped that night on the open tundra, searching long for spots both dry and level, using caribou antlers to stake our tents against the wind. As soon as they were pitched the downpour began, continuing for 14 hours straight. Many of the standard references on the Arctic Refuge describe it as desertlike, with only five or six inches of precipitation a year. All of this, apparently, comes in late June.

That evening, while we ate one of the 1,000-calorie meals of which Wilbur was so proud, something else was eating a caribou calf just over the hill; we found the calf's stripped carcass as we set out next day. The rain had let up, but the fog was so thick that we had to hike by compass, pausing every 50 yards to take another bearing.

Finally we blundered upon the rocky drainage of the Nularvik, and turned back south into the Sadlerochits, as raw, sharp, and fresh as if they had sprung up overnight. We camped on a low bluff there, waiting for the clouds to lift enough for us to see a route past Mt. Weller and back to our rendezvous with Roger. Each evening Wilbur would make the same optimistic pronouncement: "When the sun drives us from our tents in the morning, we'll punch out over the pass." Each morning, however, dawned as dank as the day before, and we began to consider the unhappy possibility of retracing our steps back

through the sorry, fogbound bog.

On the evening of our third day on the Nularvik we sat toasting wet socks over a campfire of scrub willow, teasing Wilbur about how his future menus should include less food and more liquor. (One of the Indiana lawyers in our party declared that, had he known how much water there was going to be, he would have filled *both* water bottles with martinis.) As we laughed and joked in our oblivious way, Wilbur—it was always Wilbur who noticed these things—pointed out that 40 yards away, every caribou in the world was passing by.

The herd seemed to be coming from heaven. Hundreds, thousands of caribou were pouring out of the clouds, down from the misty pinnacles of the mountains. Led by a majestic black-horned bull, they traversed impossible scree falls, some of the calves sliding down the steep ice fields. Baby 'bou gamboled around their mothers; decrepit cows tottered toward a rendezvous with a wolf or a bear. For hours they streamed north toward the plain, maybe 5,000 strong. Someone asked Wilbur if he had arranged the spectacle. "You don't think things like that happen by accident, do you?" he smiled. As we fell asleep, caribou grazed golden in the midnight sun just outside our tents.

We had seen the merest splinter of the grand Porcupine caribou herd, one of the largest migratory herds in North America, with numbers now approaching 200,000. Unlike the wildlife we are accustomed to glimpsing—an owl whooshing overhead, a fox dashing across the field of vision—the splendor of caribou is in their ubiquity. As elemental as rock or water, they soon become part of the landscape, as common as flies, or stars.

The next morning the sun really *did* drive us from our tents, inspiring a brief fashion show of hitherto unused Lycra and T-shirts. The route up was clear; 1,600 feet later, at the top of Weller Pass, we could look north to see for the first time the broad white band of the arctic icecap girding the horizon 20 miles away, and the glint of the Inupiat village of Kaktovik on Barter Island. Unlike their traditionalist, caribou-centered Gwich'in neighbors in Arctic Village, who oppose oil drilling, the 250 Inupiat of Kaktovik generally support it—at least as long as it takes place on the plain. The Inupiat hunt whales instead of caribou, and oppose drilling in the Arctic Ocean.

We slogged down the east side of the pass, occasionally sinking waist-deep into the suddenly softening snowfields. The narrow valley gradually opened out into a magnificent bowl, a green and soggy version of Monument Valley. Grazing caribou lifted their heads to look at us; a wooly mammoth or two would not have been at all out of place in this Pleistocene diorama.

For the last three days, the following question had obsessed our group: On a scale of 1 to 10, how much does it mean to you to think that you might be the first human to visit a particular spot? The men in our unscientific study consistently rated this experience 8 or above; the women, considerably below that. At our camp that evening, we learned the arrogance of our premise. Michelle and I pitched our tent at a spot next to a stream within an ancient ring of stones, which for generations had anchored the caribou-hide tents of Eskimo hunting parties. I half-expected the secrets of caribou hunting to be revealed to me as I slept. Instead I dreamt—perhaps as a result of Wilbur's 1,000-calorie meals—that war had broken out in New Zealand over a badly made pizza, quickly spreading to include rude waiters and meter maids.

Four months earlier, war *had* broken out in the Middle East over petroleum. Suddenly, drilling in the Arctic Refuge, which had been put on the far back burner after the wreck of the *Exxon Valdez*, was once again considered politically feasible. In mid-April, President Bush revealed his "National Energy Strategy," an important element of which was drilling the Arctic Refuge. In fact, he vowed to veto any energy bill that didn't include turning the wildlife refuge into a fuel dump.

ERIC DINMORE

The Interior Department and the oil industry (who are remarkably in sync on this matter) contend that there is a 95-percent chance that the Arctic Refuge contains more than 600 million barrels of oil, and a 5-percent chance that it contains a supergiant, 9.2-billion-barrel field. These figures are averaged to yield the frequently cited 3.2 billion barrels of economically recoverable oil, enough to supply the

Dwarf fireweed in the Kongakut River drainage

country for six months. The measure of recoverability, of course, is how much people are willing to pay for it. To achieve its figures, says NRDC senior attorney Bob Adler, the government assumed a price of oil roughly double the current market rate. "They overpriced oil and underpriced the cost of development so they could maximize estimates of how much oil there was," he says. "They want to make Congress salivate."

Congress slobbered a little, but didn't bite. On November 1, following an intense lobbying campaign by the Sierra Club and many other environmental groups, the Senate frustrated the oil industry's pipe dreams—at least for the time being. (See "A Line in the Tundra," page 38.) Resounding as the victory was, however, it will not be secure until Section 1002 is scrapped and the Arctic Refuge is given permanent wilderness status. Until then the caribou, the bear, the Gwich'in, and the land itself are subject to the mercurial whims of Congress.

The first mosquitoes of the season were just emerging when we arrived back at the Sunset Pass wild-animal park. With herd after herd of caribou moving past us on their way to the plain, one lone cow stood mourning a dead calf at her feet. She would call sorrowfully to each passing group, stand as if to go, and prod her still child. Then, the herd gone, she would sink down again to the ground, keeping watch.

From the opposite direction came another loner: a magnificent blond grizzly, massive forelegs seemingly as broad as its body, ambling straight toward our camp. We armed the chili bomb, but the bear caught wind of GI Joe first. It reared, sniffing the air, dashed first toward Joe and then toward us before charging headlong up the valley—directly toward the mournful cow. (Seeing a galloping grizzly instantly clarifies the futility of trying to run away from one.) In an astonishing display of the power of maternal instinct, the cow held her ground. The bear kept running, straight up the side of a 1,500-foot mountain, striking a quick California-flag pose on the summit before disappearing down the other side.

It was past midnight when we took one last hike, the sun as bright as an autumn afternoon. Tiny wildflowers strove for every possible photon. Ptarmigan croaked. Caribou continued to move past to gather on the 1002. The lone cow had finally moved on; a bear was devouring the calf. Everything was in its place—or almost everything. In the distance, we heard the buzz of Roger's plane coming to take us home. ■

PAUL RAUBER *is an associate editor of* Sierra.

►*For more information, see "Resources," p. 149.*

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Sierra Club Outings 1992

"At dusk we gathered at the rim of the world and watched the last fires
of the sun-flare on the summit, and the valleys fill with cool rivers of night.
Stone and hoary trees and the bodies of our companions merged
in translucent unity with the world of mountain and sky;
our fire leaped and writhed into the night, and clouds of querulous sparks
soared high among the stars. A spirit of unearthly beauty moved in the darkness
and spoke in terms of song and the frail music of violins."
—Ansel Adams, *Ansel Adams: An Autobiography*

COVER BY
ANSEL ADAMS:
CEDRIC WRIGHT PLAYING
VIOLIN AT ALGER LAKE,
SIERRA, ON 1931
HIGH TRIP.

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OUTING DEPARTMENT, SIERRA CLUB
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The deadline for submitting an application is March 15.

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IMPORTANT

PLEASE READ CAREFULLY. The Outing Department will begin processing reservations for summer and fall trips on January 6, 1992. Trip brochures will be available on January 1.

To order individual trip brochures, please see page 118. Make sure you read the Reservation and Cancellation Policy carefully before applying. Note that leader approval is required for all trips.

Many trips can accommodate special dietary needs (e.g., vegetarianism, allergies) while others cannot. Check individual trip brochures or contact trip leaders about your particular situation.

Make 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*.

To order trip brochures by phone, call (415) 923-5630.

For general information and questions regarding trip reservations and space availability, call (415) 923-5522.

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Contents

Chairman's Message

To celebrate the Sierra Club's Centennial, we are offering special Centennial trips. We are recreating the first Sierra Club outing, which was led by William Colby and took place in Yosemite Valley and Tuolumne Meadows in 1901 (see page 75). Come and experience a bit of our history by entering into the spirit of that first outing. ♦ A series of four bicycle trips will follow the route of John Muir's 1000-mile walk from Kentucky to Florida (see page 81). For participants who like a more leisurely outing, a two-week van trip will cover much of the same route (see page 88). ♦ You may choose to hike all or part of the 212-mile John Muir Trail from Yosemite Valley to Mt. Whitney on a series of six backpack trips scheduled for midsummer (see page 61). And a trip to Scotland in May will begin at John Muir's birthplace in Dunbar and continue on to the John Muir Trust's preserve on the Knoydart Peninsula (see page 94). ♦ All of our volunteer leaders and Outing Committee members invite you to join one or more of these special Centennial trips—as well as any of our regularly scheduled outings described in the pages that follow.

Peter Bengtson

Peter Bengtson,
Outing Committee Chairman

The historical photographs that introduce each trip section are all from the Edward T. Parsons Collection, Colby Memorial Library, Sierra Club, with the exception of the photograph on page 74 which is from the Cedric Wright Collection.

PHOTOS WANTED

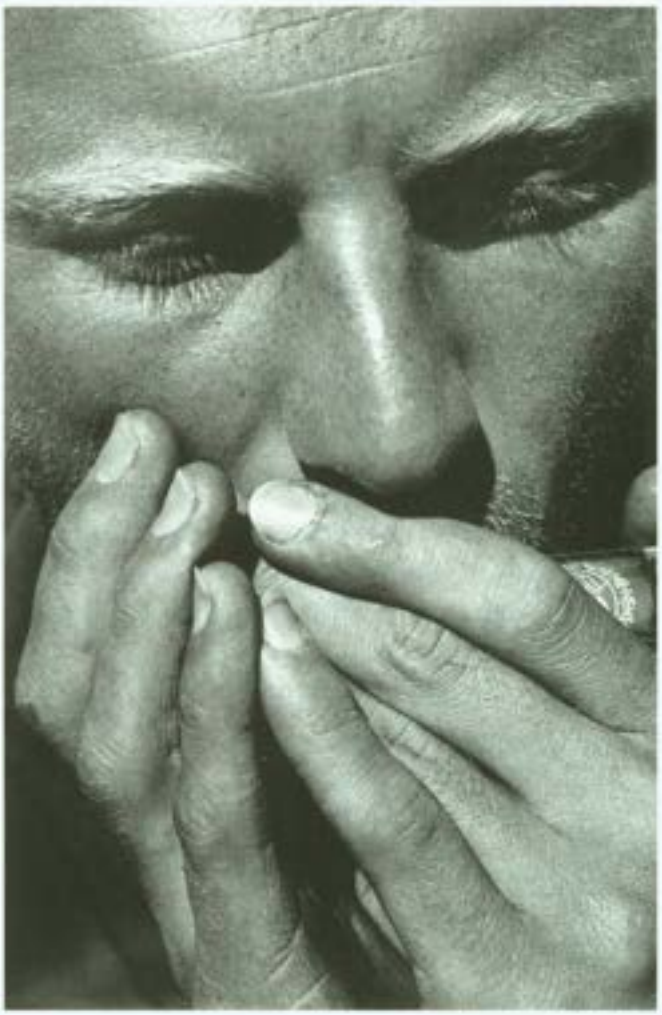
The Outing Department thanks our photographers and requests that black-and-white prints, color slides, and color prints (along with negatives) for outing publications be sent to:

STEVE GRIFFITHS
SIERRA CLUB
730 Polk Street, San Francisco, CA 94109

The deadline for the 1993 catalog is October 1, 1992.

High-Trip Portfolio

"I wish I could tell you about this miraculous summer," the youthful Ansel Adams wrote to his friend Albert Bender in 1927, "but I shall have to let my pictures do that." Ansel Adams had spent his summer hiking in the High Sierra, developing his photographic skills in an extraordinary natural setting. ♦ Much of Ansel's time in the mountains was spent on Sierra Club outings. As a consequence, he developed a lifelong commitment to the Sierra Club and its ideals—exactly what William Colby intended for Club members when he led the first High Trip in 1901. ♦ In 1930 Ansel became the assistant manager of the annual High Trip. He selected the next day's campsite, the route, and the possible climbs along the way. Upon arriving in camp after a long day of hiking and then seeing to trip members' practical needs, he would vanish into the wilderness with his camera to take advantage of the day's most magical light, often returning to camp too late for dinner. ♦ To commemorate the outings, Ansel made portfolios of his photographs and sold them at cost ($30) to trip participants. Ansel intended these portfolios to be "fine mementos," not great creative efforts. Nevertheless, to spend time with them today is to become aware of a talented man on the verge of a legendary career in photography. ♦ As part of the Sierra Club's Centennial Celebration—and as an introduction to this year's catalog describing more than 340 outings at home and abroad—we are pleased to present examples of Ansel's early work, along with excerpts from his writings. In this way we can share in the High Trip experience—and gain insights into a young artist's developing craft.



"The human condition is a part of the world's structure, and a balanced approach to the environment and its significance to humanity is essential."
—Ansel Adams: An Autobiography

A RE-CREATION OF THE ORIGINAL 1901 SIERRA CLUB OUTING TO YOSEMITE NATIONAL PARK IS PLANNED FOR THIS SUMMER. SEE PAGE 75 FOR MORE INFORMATION.

"I am glad that the artist can move through the wilderness taking nothing away from its inexhaustible spirit and bringing his vision-modulated fragments to all who come to see."
—Yosemite and the Range of Light

High-Trip Portfolio

"Over a number of rainy days in camp during the 1932 outing, I prepared a series of pseudo-Greek tragedies, *Exhaustos, The Trudgin' Women,* and *The Oxides*... The group entered into rehearsals and performances with great gusto. The cast of characters included such exalted roles as King Dehydros of Exhaustos; Commissaros, Prince of Indigestion; Clymenextra, daughter of King Dehydros; Rhykrispos of Poucha; Ogotellone, a fisherman; and the Chorus of Weary Men and Sunburnt Women. I was the Spirit of the Itinerary with a harp of bent wood and fishing line... How funny these plays were in situ and how dismal when given anywhere else."

EXCERPTS ON THESE PAGES ARE FROM *ANSEL ADAMS: AN AUTOBIOGRAPHY.*

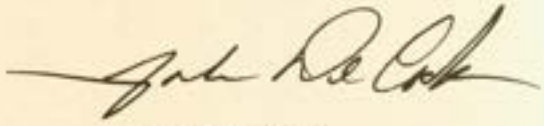
"The Sierra built and modulated my environmental concepts. It joined the wondrous visions of astronomical reality with the dynamics of nature all about me . . . And I did meet people in the mountains who matched their power and dignity, not because they could conquer the peaks, but because they seemed to understand and become a part of the mystery."

"The snapshot is not as simple a statement as some may believe. It represents something that each of us has seen—more as human beings than as photographers—and wants to keep as a memento, a special thing encountered . . . Through the billions of snapshots made each year a visual history of our time is recorded in enormous detail."

"The food was magnificent and varied; to feed nearly two hundred people in the wilds properly for a month was no mean achievement."

Outings History

The Sierra Club was founded 100 years ago by men and women who loved wilderness and natural beauty. Their experiences in the Sierra Nevada inspired them to join the battle for wilderness protection—and to share their love of nature with others. ♦ In this spirit, William Colby proposed and led the first Sierra Club outing in 1901. Since then the Outing Program has been growing, educating and fostering a love of nature in generations of Club members by letting the mountains, forests, and rivers speak to their hearts. ♦ Thousands of dedicated individuals have contributed to the success of our Outing Program. In this catalog we profile a few leaders who made significant contributions to the program's evolution. Selecting them was very difficult. The historical record of the Club describes the work of many members who contributed in ways both great and small to the character of the program. ♦ This catalog is dedicated to all of them—from the Outing Committee chairs to the pot boys and lunch girls of the original High Trips, to leaders, cooks, assistants, subcommittee chairs, Outing Department staff, and Sierra Club directors, all of whom have made possible the program offered in this catalog. ♦ The names of some of these people are listed below. Don't be surprised to recognize among them some of the Club's most notable activists. For many, it was the Outing Program that attracted them to the Club. ♦ We hope that as you read this catalog and join us on our outings, you will reflect on the wonder of how this unique program came to be and how it was created by people like yourself, volunteering to lead new friends into the wilderness for no greater reason than to learn to love it better.



John DeCock
Director of Outings

Ansel and Virginia Adams
Dolph Amster
Steve Arnon
Al and Gail Baxter
Raffi Bedayn
Peter Bengtson
Gordon and Emily Benner
Phil Bernays
Phil Berry
Bob Berges
John Blosser
Bob Braun
Herbert Breed
David Brower
Hasse Bunnelle
Bill Busby
Norman Clyde
Patrick Colgan
Mary Ann Coombs
Robert Cutter
Carol Dienger
Stewart Dole
Lynn and Ruth Dyche
John and Jane Edginton
Lou Elliot
Francis Farquhar
Virginia Ferguson
Cal and Louise "Letty" French
Braeme Gigas
Bob Golden
Pat Goldsworthy
Ted Grubb
Joel Hildebrand
Milton Hildebrand
Bob Howell
Helen Jordon
Jane King
Duff and Mary-Em Laboyteaux
Leo Le Bon
Blaine LeCheminant
Joseph N. LeConte
Ike Livermore
Michael Loughman
Charlotte Mauk
Don McIver
John Muir
Scudder Nash
Betty Osborn
Edward T. Parsons
Gordon Peterson
Madelyn Pyeatt
Frank Quinn
John Ricker
Bestor Robinson
Marlene Sarnat
David Simon
Faye Sitzman
Wheaton Smith
Jerry South
Ted Snyder
Don Tachet
Clair Tappaan
Francis Tappaan
Sandy Tepfer
Charley Tuck
Jim Watters
Edgar Wayburn
George Winsley
Wayne R. Woodruff
Cedric Wright
Cliff Youngquist

Special thanks to Steve Griffiths for historical research.

ICO

HISTORICAL PHOTOGRAPH: FISHING IN LONG MEADOW, KERN CANYON, SIERRA, 1912 HIGH TRIP; BELOW: SAN FRANCISCO BAY ICO YOUTH AT THE POINT REYES NATIONAL SEASHORE, CALIFORNIA.

Inner 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, and physically disabled persons. ♦ Inner City Outings offers these individuals a chance to meet the challenges of wilderness travel, learn about the natural environment, develop good wilderness manners—and have a lot of fun in the process. ♦ Participants also discover the value of cooperation (particularly when it comes to setting up a tent in the rain or guiding a raft through whitewater rapids!), and get to know people of diverse ethnic and cultural backgrounds.

In 1991, volunteer leaders provided more than 450 outings for almost 5,000 participants. Currently, there are 33 ICO groups located in these cities:

Atlanta, Georgia
Austin, Texas
Boston, Massachusetts
Charlotte, North Carolina
Chicago, Illinois
Cincinnati, Ohio
Cleveland, Ohio
Dallas, Texas
Davis, California*
Denver, Colorado
Detroit, Michigan
El Paso, Texas
Fresno, California*
Houston, Texas
Indianapolis, Indiana
Jersey Shore, New Jersey*
Kansas City, Missouri*
Los Angeles, California
Miami, Florida
New York, New York
Norwalk, Connecticut*
Oklahoma City, Oklahoma
Philadelphia, Pennsylvania
Phoenix, Arizona
Portland, Oregon
Raleigh, North Carolina
Sacramento, California
San Antonio, Texas*
San Diego, California
San Francisco, California
San Jose, California
Tucson, Arizona*
Washington, D.C.

*Established in 1991

Each ICO group is supported by donations of money and equipment. Contributions to the program are tax-deductible. Checks should be made out to: **Inner City Outings/ The Sierra Club Foundation.** 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

See page 112 for information about a whitewater rafting trip on the Rogue River to benefit the Inner City Outings program.

Alaska

HISTORICAL PHOTOGRAPH: CAMPFIRE ON MORAINE LAKE IN THE KERN RIVER AREA, SIERRA, 1908 HIGH TRIP.

Alaska wilderness defies comprehension. The permafrost of the Arctic slope, the grandeur of the Brooks Range, the sheltered waters of the glacial fjords, and the immense Yukon and thousands of other waterways are all part of this magnificent land that culminates at Mt. McKinley, the highest point on the North American continent. ♦ Alaska trips differ widely in physical challenge and skills required: Trips by van or ferry can be leisurely; base camps offer a gentle way to explore a remote wilderness; bicycle and water trips are more strenuous; and lack of trails makes backpacking always challenging. A sometimes harsh and cold climate can add an extra challenge to your Alaskan adventure. ♦ All trips provide a wide range of opportunities for studying a fascinating diversity of wildlife and flora. Active conservationists can learn firsthand about areas that still need wilderness protection. ♦ Trip prices do not include travel to Alaska or charter air costs. ♦ Also included in this section are trips to Canada's Far North.

Arctic Wildlife Refuge Backpack, Brooks Range—June 15–26. Join Arctic birds, flowers, moose, wolves, and (we hope) thousands of migrating caribou as summer arrives on the tundra. Enjoying 24 hours of daylight, we'll hike a moderate loop between the snowcapped Romanzof Mountains and the coastal plain as it slopes north to the Beaufort Sea. *Leaders: Carol and Dexter Hake. Price: $995; Dep: $100.* **[92104]**

Glacier Bay Park and Preserve Service Trip—June 16–26. We'll do trail maintenance and perhaps some kayaking amid the whales, waterfowl, and oceanside glaciers. *Leader: Cynthia Griffin-Brown. Price: $425; Dep: $50.* **[92105]**

Arctic Wildlife Refuge Photography Base Camp, June 18–26. Spend the summer solstice under the 24-hour Arctic sun in the midst of 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. From our base camp in the Brooks Range, we will dayhike and photograph the varied landscapes and animals of the Arctic Refuge. Non-photographers are also welcome. *Leader: Wilbur Mills. Price: $1,095; Dep: $200.* **[92106]**

Franklin Mountains to the Arctic Coast: Backpack and Raft, Arctic Wildlife Refuge—June 20–July 3. Experience the midnight sun as we backpack a moderately strenuous route across the remote Franklin Mountains from Peters Lake, past icefields to the headwaters of the Canning River. From there, rafts will carry us to the Arctic Ocean; we'll see prime caribou and musk-ox habitat along the way. A relaxed pace will ensure that we absorb all we can of this timeless yet threatened region. Backpacking experience is required. *Leader: Ken Dandy. Price: $1,795; Dep: $200.* **[92107]**

Twin Lakes Base Camp in the Heart of Lake Clark Park and Preserve—June 21–July 2. Twin Lakes is a paradise of wildlife, dramatic mountains, open tundra, and serene glacial lakes. Unencumbered by heavy packs, we will have time to explore the challenging terrain, climb peaks, fish, and enjoy the surroundings; we'll also take an occasional overnight backpack. Consider this a moderate to strenuous trip. *Leaders: Sarah and Dave Hall Gordon. Price: $995; Dep: $100.* **[92108]**

Tatshenshini by Raft, Glacier Bay Park and Preserve, Alaska and British Columbia, Yukon Territory, Canada—June 22–July 1. Rafting the Tatshenshini and Alsek rivers is one of the world's great wilderness adventures. We'll meet in Haines, Alaska, for this 125-mile "scenic to the max" journey through the St. Elias Mountains to the coast. Beginning in lush forest at Dalton Post, the river carries us by towering snow-clad peaks, waterfalls, and deep valleys. Finally we float among freshly calved icebergs from the seven-mile face of Alsek Glacier. *Leader: Jenny Holliday. Price: $1,895; Dep: $200.* **[92109]**

Glacier Bay Sea Kayak, Glacier Bay Park and Preserve—June 24–July 5. Come with us to explore the islands, fjords, and tidewater glaciers of Glacier Bay National Park. In stable, two-person sea kayaks, we'll slip quietly through vast expanses of wilderness, seeing

CLOCKWISE FROM RIGHT: AUYUITTUQ NATIONAL PARK, CANADA; COTTON GRASS AND TALKEETNA MOUNTAINS; ELK.

whales, seals, and thousands of birds. Layover days give us time to hike and explore. Kayaking experience is not required, but you must be comfortable in a small boat. *Leaders: Martha Schultz and Ian Walton. Price: $1,495; Dep: $200.* **[92110]**

Misty Fjords Monument by Sea Kayak—June 25–July 4. Formed during an ice age 10,000 years ago, Misty Fjords has evolved into a lush ecosystem dominated by dense forests, alpine lakes, sculpted shorelines, waterfalls, and steep, polished cliffs—a sea kayaker's paradise! Deep, narrow inlets offer ideal paddling conditions. We'll also enjoy short hikes on scenic trails. Beginning paddlers welcome, but you must be comfortable in a small boat. *Leader: Gregg Williams. Price: $1,395; Dep: $200.* **[92111]**

Arctic Wildlife Refuge Backpack—June 29–July 10. Make a part of this vast and magnificent tundra and mountain country your own by exploring its glaciated canyons and tributaries. Our route on the north slope of the Brooks Range is planned so that we'll see migrating caribou and a profusion of wildflowers. Expect moderate to strenuous hiking days at a leisurely pace, and some layover days. *Leaders: Joan and Bill Busby. Price: $995; Dep: $100.* **[92112]**

Alaska

Prince William Sound Service Trip, Chugach Forest—July 6–16. Help maintain trails in this still-beautiful region. Our free days can be spent exploring the majestic glaciers and coastal environment. *Leader: TBA. Price: $425; Dep: $50.* **[92113]**

High Romanzof Backpack, Brooks Range—July 11–24. You can still chew the Pleistocene raw. This is a strenuous but nontechnical route across the icefields at the northernmost point of the Continental Divide. We will investigate the headwaters of three rivers in a region still only partially explored and not yet accurately mapped. The High Romanzof is an arctic alpine zone of stunning sublimity. *Leader: Dennis Schmitt. Price: $1,095; Dep: $200.* **[92114]**

Canoeing Katmai, Katmai Park and Preserve—July 15–26. Katmai National Park and Preserve offers many attractions: the Valley of Ten Thousand Smokes; wildlife, including bear, moose, beaver, otter, shore birds, and waterfowl; fish big enough for anglers to brag about; dense forests and tundra; mountain views; and wilderness canoeing. With a few days to explore on foot and eight days in canoes to circumnavigate a chain of lakes and streams, we'll come to know the extraordinary wilderness that is Katmai. *Leader: Chuck Schultz. Price: $1,495; Dep: $200.* **[92115]**

Parent/Child Alagnac River Rafting—July 20–31. Our trip is designed for mothers or fathers who want to share a wilderness experience with a son or daughter (ages 12–16). Imagine lifting off from Lake Illiama in a floatplane, rafting on the exciting Alagnac River, catch-and-release fishing for pink and chum salmon, watching bears catch fish at Brooks Camp, and having the option to visit the Valley of Ten Thousand Smokes. *Leader: Jon Kangas; Fishing Instructor: Lynn Dyche. Price: adult $1,350, child $895; Dep: $100 per family.* **[92116]**

Auyuittuq Park Backpack, Baffin Island, Canada—July 20–August 2. Are you looking for an arctic challenge? Then explore Auyuittuq National Park, "the land that never melts," and see a unique wilderness of perpetual ice, jagged mountain peaks, deep valleys, and fjords. You can see from the powerful landscape why the Inuit believe that time is unending. Our moderately strenuous 60-mile route begins at Broughton Island; then we'll hike across Akshayuk Pass to Overlord. *Leader: Sigrid Miles. Price: $1,745; Dep: $200.* **[92117]**

Ride the Alaska Range—July 26–August 8. Discover the most majestic mountains in North America by mountain bike! The first week we'll ride the unpaved Denali Highway

CLOCKWISE FROM TOP RIGHT: DENALI NATIONAL PARK; KOYUKUK RIVER, GATES OF THE ARCTIC NATIONAL PARK AND PRESERVE; WRANGELL-ST. ELIAS NATIONAL PARK AND PRESERVE.

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

across 135 miles of open tundra, skirting Mts. McKinley, Deborah, and Hayes. The second week we'll head south into Wrangell–St. Elias National Park, where we'll take adventurous day rides to explore Copper River Gorge, Kennicott Glacier, and nearby peaks. Sag wagons provide support. *Leader: Lasta Tomasevich. Price: $1,295; Dep: $200.* **[92118]**

Admiralty Island Sea Kayak—July 28–August 7. From a sheltered base camp on pristine Admiralty Island we'll have the option of exploring the protected waters, shores, and islands of Gambier Bay on single- or multiday touring options. Old-growth spruce and hemlock forests, mountains, wildlife, and stunning scenery will provide us with a memorable Alaskan wilderness experience. Suitable for all skill levels; kayaks and instruction provided. *Leader: Don Lackowski. Price: $1,295; Dep: $200.* **[92119]**

Follow the Footsteps of John Muir—Ferry Hopping in Southeast Alaska—July 30–August 15. Celebrate the Sierra Club's Centennial by visiting some of the places that inspired John Muir during his travels in Alaska. Enjoy the freedom of traveling by ferry as we emulate Muir's spirit of discovery and retrace his voyage to the Stikine River, Ketchikan, Wrangell, Sitka, Admiralty Island, Misty Fjords, and Juneau. By kayaks, on foot, and in vans, we will explore ports, lush old-growth rainforests, icy fjords, and glaciated mountains. This is a leisurely trip that all ages can enjoy. *Leaders: Carol and Howard Dienger. Price: $2,195; Dep: $200.* **[92120]**

Canoe the Wild and Scenic Noatak River—August 2–14. The Noatak River lies north of the Arctic Circle in a broad valley of treeless tundra. Our canoe adventure will be interspersed with layovers so we can hike into side canyons and experience the diverse flora and wildlife of this World Biosphere Reserve. River canoeing and wilderness experience are required. *Leader: Jack McCarron. Price: $1,495; Dep: $200.* **[92121]**

Gates of the Arctic Park and Preserve by Backpack and Raft—August 3–16. From a lake accessible by floatplane, our trip in this extraordinary wilderness will begin with a one-week cross-country backpack through the beautiful Valley of Precipices. Then, in the shadow of Mt. Doonerak, we'll start our scenic 100-mile raft trip down the Koyukuk River to the town of Bettles. *Leader: Gary Aguiar. Price: $1,795; Dep: $200.* **[92122]**

Florence Lake Service Trip, Admiralty Island Monument, Tongass Forest—August 11–20. Travel by floatplane to a remote island in southeast Alaska, where we'll do trail and cabin maintenance. Expect rain, hard work, great food, abundant wildlife—and fun! *Leader: David Stern. Price: $425; Dep: $50.* **[92123]**

Denali Park and Preserve Service Trip—August 21–31. Mt. McKinley (20,320 feet) is a spectacular backdrop for our revegetation and cleanup project. We'll share the tundra with an amazing array of wildlife. Backpacking experience is required for this strenuous trip. *Leader: Anne Stork; Cook: Eric Theise. Price: $425; Dep: $50.* **[92124]**

CONSERVATION CHALLENGE

OIL DRILLING PROPOSED FOR ARCTIC NATIONAL WILDLIFE REFUGE

The Sierra Club hailed the 1980 Alaska Lands Act as "the conservation vote of the century." And who could deny it? With one pen stroke, over 100 million acres of new parks, refuges, wilderness, and wild and scenic rivers were created.

But wilderness treasures are still threatened. The Bush administration and the oil industry are willing to sacrifice wilderness areas instead of pursuing a forward-thinking energy policy aimed at reducing our oil dependency and stressing energy efficiency, conservation, and renewable sources.

The most immediate challenge for conservationists is stopping oil development on the coastal plain of the Arctic National Wildlife Refuge, heart of an unparalleled ecosystem that harbors polar and grizzly bear, musk oxen, wolves, Dall sheep, 135 species of birds, and the Porcupine caribou herd.

What you can do: Write to your senators and urge them to cosponsor S. 39, a bill that would grant permanent protection to the coastal plain by designating it wilderness. Write to your representative and urge him or her to cosponsor H.J.Res. 239, a House bill to declare the coastal plain wilderness. Address your letters to: U.S. Senate/House of Representatives, Washington, DC 20510 (Senate) or 20515 (House).

Also consider going on a trip to the Arctic National Wildlife Refuge. For a listing of these trips see page 114 in the Geographic Index.

Backpack

HISTORICAL PHOTOGRAPH: TUOLUMNE MEADOWS, YOSEMITE NATIONAL PARK, SIERRA, 1914 HIGH TRIP; RIGHT: HIKER BELOW MT. WHITNEY, JOHN MUIR WILDERNESS, SIERRA.

Experience the wilderness on a rewarding and adventurous backpacking trip. Having everything you need for the trip in a pack adds an extra dimension of freedom and satisfaction to your outing. ♦ Our trips are really small expeditions. Each is individually planned by the leader, who seeks challenging routes and attempts to set up camps in untrampled, out-of-the-way places whenever possible. All backpack trips are run with a central commissary; trip members share cooking and cleanup chores. All are expected to carry a fair share of food and commissary gear in addition to personal belongings. ♦ Trips vary in length and difficulty. We have divided the trips into five categories. Light (L) trips cover up to 35 miles in four or five travel days, the remaining days being layovers. Moderate (M) trips may cover longer distances of up to 55 miles and involve more cross-country route finding. Strenuous (S) trips cover as much as 60 to 70 miles with greater ups and downs and continuous high-elevation travel. Light-Moderate (L-M) and Moderate-Strenuous (M-S) are intermediate ratings. Individual trip brochures explain each trip's rating in more detail. ♦ Leaders are required to approve each applicant before final acceptance, and will ask you to write responses to their questions. These responses help the leader judge your backpacking experience and physical condition.

Kofa Wildlife Refuge Exploration, Arizona—February 16–22. If you like adventure, you'll love this outing in one of western Arizona's most rugged deserts. Amidst the sharp-pointed mountains and wide valley floors live about 1,000 desert bighorn sheep. Water is limited, so our camps will be dry—a small price to pay for the chance to see the head and horns of a big ram silhouetted against the sky. (Rated M-S) *Leader: Sid Hirsh. Price: $340; Dep: $50.* **[92031]**

Florida Trail Odyssey: Ocala Forest—February 23–29. Warm days and cool nights make this winter outing a perfect cure for cabin fever. Expect variety on this 65-mile trail: We'll pass by ponds, cross cypress and gum swamps on boardwalks, traverse longleaf-pine forests and clusters of dwarf live oaks, and see wildlife from songbirds to black bears. (Rated M) *Leader: Carolyn Williams. Price: $345; Dep: $50.* **[92473]**

Hidden Oasis: Blue Palm Canyons of Northern Baja California, Mexico—March 15–22. Escape from winter and enjoy balmy days and moonlit nights on this combination backpack and base-camp trip. This remote, rugged, and quiet country will share its subtle secrets with us: hidden fern grottos, bighorn sheep, blue palms, perennial streams, and ironwood tree sculptures. A fragile land of desert-mountain terrain awaits us with rewards for the adventurous. (Rated L-M) *Leader: Bill Evans. Price: $500; Dep: $100.* **[92128]**

Pacific Crest Trail: Mexico to Scissors Crossing, California—March 22–30. Remember the proverb: A journey of a thousand miles begins with a single step. To hike the 2,600-mile Pacific Crest Trail (going south to north), your first step will be at Campo, near the Mexican border. We will hike an 80-mile stretch of the trail in a series of dayhikes, using car shuttles to take us to trailheads and camps. (Rated M) *Leader: Ben Fleming. Price: $350; Dep: $50.* **[92032]**

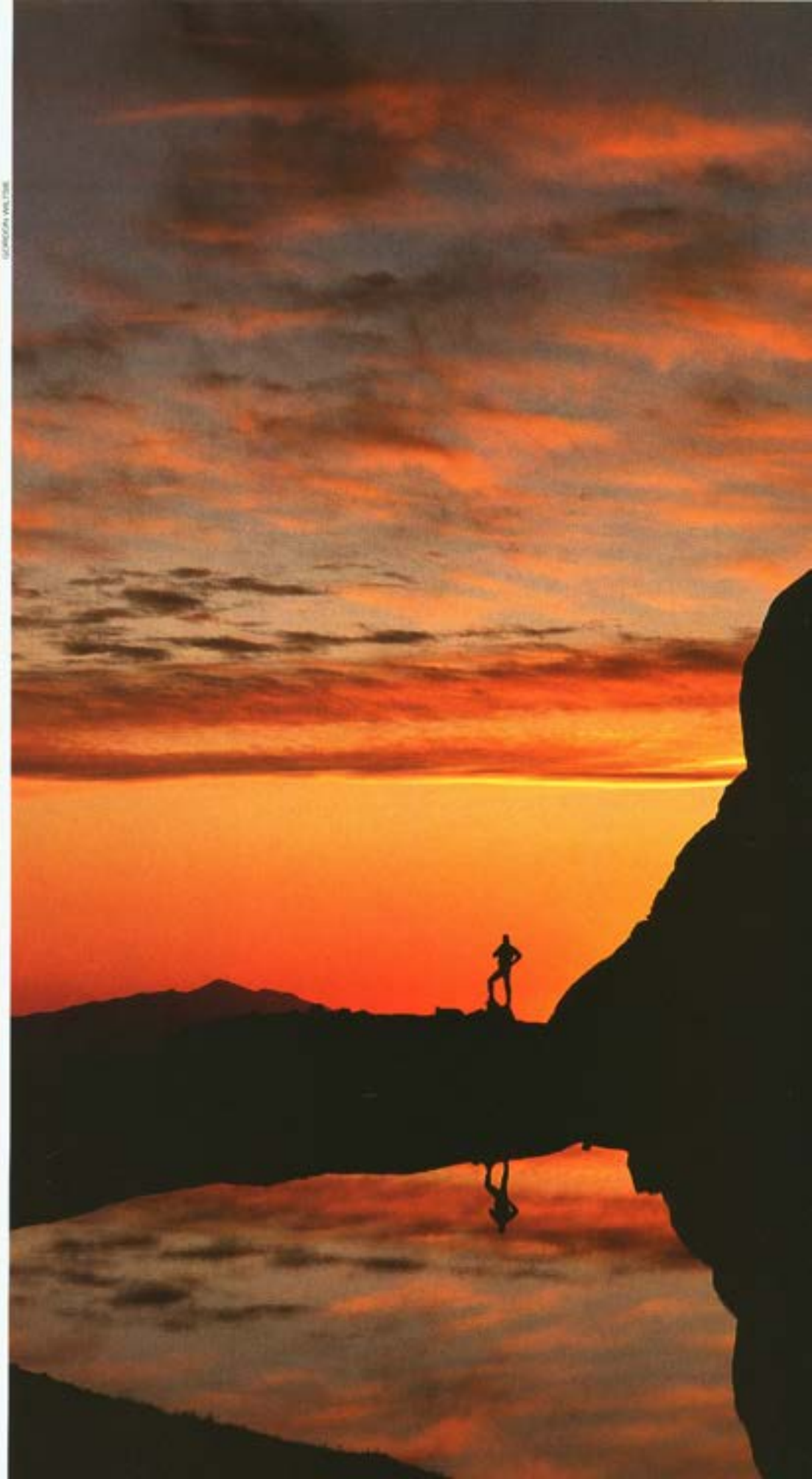
The Chute of Muddy Creek, San Rafael Swell, Utah—April 4–11. Join our seasoned group of canyoneers as we explore remote areas of the San Rafael Swell. Our scenic route will take us through the Chute of Muddy Creek and along the Southern Reef, where we will explore several canyons. Our trip ends in Chimney Canyon, the most beautiful of all. (Rated S) *Leaders: Ginger Harmon and Steve Allen. Price: $370; Dep: $50.* **[92033]**

Sespe Secrets, Los Padres Forest, California—April 4–11. Only 40 miles from Los Angeles, Sespe country is a relatively untouched wilderness at the ocean end of Southern California's transverse ranges. Those who have discovered its secrets speak of pine-covered mountains, meandering canyons, brooks with swimming holes, and an inviting hot spring. Our journey will introduce us to all of these secrets, and a moderate pace will allow us to enjoy them fully. (Rated L-M) *Leader: Ricky Tate. Price: $235; Dep: $50.* **[92034]**

Redrock Secret Mountain and Sycamore Canyon Wildernesses, Arizona —April 11–18. Experience the redrock country of the Sedona/Oak Creek Canyon area in northern Arizona that the average visitor never sees. We will traverse two wildernesses, explore colorful canyons with flowing streams and natural arches, enjoy redrock vistas, and visit Indian ruins and a historic cowboy cabin. (Rated M-S) *Leader: David C. Mowry. Price: $300; Dep: $50.* **[92035]**

Easin' Down the Escalante, Glen Canyon Recreation Area, Utah—April 12–18. Starting on the historic Hole-in-the-Rock road, we'll descend gently through beautiful Harris Wash to the Escalante, taking plenty of time to photograph and explore side canyons in this redrock wilderness. Expect frequent stream crossings, warm days, and cool, crisp nights. Our exit route in Twenty-Five Mile Canyon tops off this scenic week. (Rated M) *Leader: Mike Murphy. Price: $400; Dep: $50.* **[92036]**

Escalante Canyons, Glen Canyon Recreation Area, Utah—April 17–25. Experienced slickrock adventurers will more than just enjoy this spectacular backpack down Forty-Mile Ridge into Stevens



Backpack

Canyon and up into the Waterpocket Fold. Much of our hiking will be cross-country—into some of the most remote and beautiful areas of southern Utah. One layover day is planned. (Rated S) *Leader: Bert Fingerhut. Price: $575; Dep: $100.* **[92037]**

Thunder River and Deer Creek Falls, Grand Canyon Park, Arizona—April 18–24. The scenery in this remote area of the North Rim is the best the Grand Canyon has to offer hikers. After descending into the canyon at Indian Hollow, we cross the Esplanade to Deer Creek Falls. Then we'll explore Hidden Valley on our way to Thunder River. Two layover days are planned. This trip is for experienced hikers only. (Rated S) *Leader: Gary Millsap. Price: $325; Dep: $50.* **[92038]**

Thunder River and Deer Creek Falls, Grand Canyon Park, Arizona—April 19–25. See description for trip #92038 above. *Leader: Bob Cole. Price: $325; Dep: $50.* **[92039]**

Exploring the Kolob, Zion Park, Utah—April 19–25. This remote northwestern section of Zion National Park features narrow canyons of Navajo sandstone, inviting streams with sand-bench campsites, gigantic Kolob Arch, and the challenge of Beartrap Canyon. Join us in exploring this unique and seldom-visited wilderness. (Rated M-S) *Leader: Don McIver. Price: $375; Dep: $50.* **[92040]**

California's North Coast: Redwoods and Surf—April 27–May 4. Spend three springtime days in the redwoods and experience an awesome silence as you stroll a fern carpet under these giants. Then hike five days along the lonesome Lost Coast, where you'll see harbor seals, sea lions, a riot of wildflowers, and—with luck—whales. You'll find an abandoned lighthouse, a black sand beach, and many other surprises. Don't forget your camera! (Rated L-M) *Leader: Bill Walsh. Price: $265; Dep: $50.* **[92041]**

Arches and Cliff Dwellings, Utah—May 2–8. The ruins of ancient Anasazi cliff dwellings perch high on the sandstone walls of Owl and Fish Creek canyons. On three layover days we'll explore some of these ruins, visit the massive natural arches and amphitheaters, and stroll through pine and fir along trickling streams. We'll hike three to five miles a day at altitudes below 6,000 feet. Suitable for experienced backpackers. (Rated L-M) *Leader: Jack Zirker. Price: $325; Dep: $50.* **[92042]**

Kanab Canyon and Thunder River, Grand Canyon Park, Arizona—May 2–9. Our spring trip begins with a steep nine-mile descent to Thunder River, spectacular enough to make our efforts worthwhile. Our itinerary includes almost every feature the canyon has to offer—120-foot Deer Creek Falls, hidden canyons with beckoning pools, the narrows of Jumpup, and a panoramic view as we ascend Kwagunt Hollow to Sowats Point. No layover days are planned. For experienced hikers only. (Rated S) *Leader: Gene Glenn. Price: $315; Dep: $50.* **[92043]**

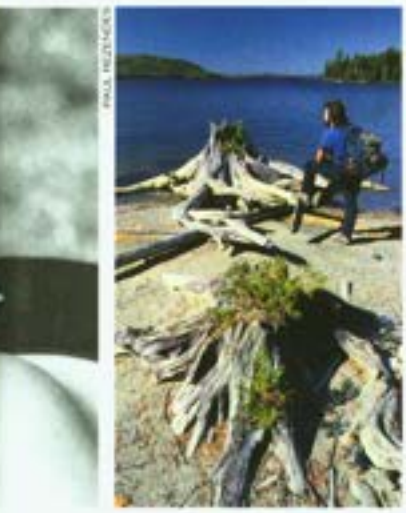
Navajo Mountain and Rainbow Bridge, Arizona and Utah—May 3–9. Silhouetted against the southwestern sky and sacred to the Navajo tribe, Navajo Mountain invites exploration of its twisting canyons and red sandstone domes. Desert wildflowers add splashes of color at this time of year. A layover day allows us to take a side hike to Rainbow Bridge National Monument, the largest natural arch in the United States. (Rated M) *Leader: Jim Urbon. Price: $305; Dep: $50.* **[92044]**

KEN DAWSON

JENNY HAUBER ALPINE IMAGES

CLOCKWISE FROM TOP RIGHT: MOOSEHEAD LAKE, MAINE; SAGUARO CACTUS, ORGAN PIPE NATIONAL MONUMENT, ARIZONA; RESTBREAK.

SEE PAGE 58 FOR A DESCRIPTION OF THE BACKPACK TRIP RATING SYSTEM.



Mogollon Baldy, Gila Wilderness, New Mexico—May 23–30. In the United States' first designated wilderness, we will climb from the Sonoran Desert to snowy, subalpine forest. We'll step amidst the spirits of ancient cliff dwellers, see herds of bronze elk, plunge into icy riparian pools, slip into tepid hot springs, and grapple with stealthy trout. Expect some snow travel and frequent river wading on our 50-mile loop hike. (Rated M-S) *Leader: David Morrison. Price: $395; Dep: $50.* **[92129]**

Escalante Canyons, Glen Canyon Recreation Area, Utah—May 24–30. Escalante features a unique combination of hidden alcoves, sculptured sandstone arches, hanging gardens, and waterfalls. The rust-colored streams along our route contrast with clear, emerald pools tucked away in side canyons. We'll have time for leisurely exploration on our layover day. (Rated M-S) *Leader: Michelle Line. Price: $400; Dep: $50.* **[92045]**

CENTENNIAL TRIPS

JOHN MUIR TRAIL

Backpackers can commemorate the Centennial by hiking one or more parts of the magnificent John Muir Trail, which follows the crest of the Sierra Nevada for 212 miles. In this way, we honor John Muir, who inspired our founding and did much to preserve the Sierra wilderness.

We have divided the trail into six segments and six trips, each with its own leader. The first starts in Yosemite Valley on July 11, and the last finishes at Mt. Whitney (Whitney Portal) August 14. The trips are eight or nine days long and include a layover day. Most segments add miles in reaching and leaving the John Muir Trail, making the aggregate distance longer than 212. The trips are orchestrated to make it possible for a participant to travel the whole trail, or connected parts of it, uninterruptedly.

John Muir Trail Part I: Happy Isles to Reds Meadow, Yosemite Park and Ansel Adams Wilderness, Sierra—July 11–19. The first of our John Muir Trail trips never leaves the trail itself, staying on it for 58 miles. What a panorama of Yosemite unfolds—from tumbling falls on the Merced River to the great meadows along the upper Tuolumne in a world of jagged peaks and domes! The final miles are an unmatched bonus as we finish in the Ansel Adams Wilderness, spellbound by the alluring Ritter Range. (Rated M) *Leader: Carol McVeigh. Price: $370; Dep: $50.* **[92148]**

John Muir Trail Part II: Reds Meadow to Florence Lake, John Muir Wilderness, Sierra—July 19–27. Our backpack from Reds Meadow to Florence Lake covers 53 miles in eight trail days. Camps will be at high lakes and beside rushing mountain streams. Participants must be in good condition and ready for a steep climb out of Reds Meadow. (Rated M-S) *Leader: Bob Bergos. Price: $370; Dep: $50.* **[92155]**

John Muir Trail Part III: Florence Lake to South Lake, John Muir Wilderness and Kings Canyon Park, Sierra—July 25–August 1. Enjoy an easterly Sierra traverse through Evolution Basin surrounded by Darwin, Huxley, and Wallace peaks. We'll visit lakes such as Sapphire, Wanda, and Helen, along with Muir, Dusy, and Bishop passes. The towering peaks, wildflowers, and jewel-like lakes have been an inspiration to adventurers of all ages. This trip is suitable for all experience levels. (Rated L-M) *Leader: John Bird. Price: $325; Dep: $50* **[92157]**

John Muir Trail Part IV: South Lake to Taboose Creek, John Muir Wilderness and Kings Canyon Park, Sierra—July 28–August 4. Explore this incredibly scenic part of the John Muir Trail in the southern Sierra. We'll cross three passes more than 11,000 feet in elevation, enjoy views of the most rugged massif in the Sierra, and camp at lovely lakes. We travel a total of 40 miles at a leisurely pace. (Rated M) *Leader: Roz Bray. Price: $325; Dep: $50.* **[92164]**

John Muir Trail Part V: Taboose Creek to Onion Valley, John Muir Wilderness and Kings Canyon Park, Sierra—August 1–8. We will cross Taboose Pass (11,400 feet) to reach the John Muir Trail in Kings Canyon National Park, which includes such spectacular features as Lake Marjorie (11,200 feet), and Pinchot and Kearsarge passes (12,000 feet). We'll have time to relax and enjoy the wildflowers. Camps will be by creeks or lakes. A packer assist will lighten our load the first day. (Rated M) *Leader: Modesto Piazza. Price: $325; Dep: $50.* **[92166]**

John Muir Trail Part VI: Onion Valley to Mt. Whitney, Kings Canyon and Sequoia Parks, Sierra—August 6–14. This part of the southern Sierra is a grand place to experience. Hiking in the highest part of the Sierra, we'll enjoy many beautiful lakes and meadows. We will travel a total of 55 miles, 34 on the John Muir Trail. Weather permitting, our grand finale will be an ascent of Mt. Whitney (14,494 feet). (Rated M-S) *Leader: Tina Welton. Price: $370; Dep: $50.* **[92174]**

Backpack

Foothills Trail Adventure, South and North Carolina—May 30–June 6. Skirting the Blue Ridge escarpment in western South Carolina and North Carolina, this beautifully designed trail crosses some rugged yet lush terrain, plus several rivers that have cut deep gorges with many waterfalls. Views of Lake Jocassee and blooming mountain laurel will delight us as we hike six to ten miles daily for a total of about 50 miles. (Rated M) *Leader: Helene Baumann. Price: $360; Dep: $50.* **[92046]**

Deep in Death Hollow Wilderness, Escalante, Utah—May 31–June 6. Our adventurous off-trail route begins at 9,000 feet on the Aquarius Plateau. For the next 30 miles, we descend 3,500 feet, hiking, scrambling, and swimming our way down Death Hollow Canyon to the Escalante River. This slot-canyon adventure is for experienced hikers only. One layover day is planned. (Rated S) *Leader: Lasta Tomasevich. Price: $405; Dep: $50.* **[92047]**

Paria Canyon, Vermilion Cliffs Wilderness, Arizona and Utah—May 31–June 6. The ancient Anasazi used Paria Canyon as a travel route, and the remains of their dwellings, monuments, and petroglyphs can still be found. We'll hike through the Paria Narrows, exploring Buckskin Gulch, Wrather Arch, and other side canyons along the way. Toward the end of the trip we'll emerge at the base of the Vermilion Cliffs, a colorful example of desert topography. (Rated M-S) *Leader: Jim Lynch. Price: $355; Dep: $50.* **[92130]**

Leadership Training, Zion Park, Utah—June 7–13. The sculptured sandstone beauty of Zion National Park sets the stage for this outing to train leadership candidates for the National Outing Program. Experienced staff will combine outdoor instruction with on-trail training. Committed applicants are encouraged to apply. The trip fee may be reimbursed. See trip brochure for qualification criteria. (Rated M-S) *Leader: Don McIver. Price: $340; Dep: $50.* **[92131]**

Mogollon Baldy, Gila Wilderness, New Mexico—June 7–13. The Gila is what Yellowstone would be without the cars, crowds, and concessionaires—a place where one can find true wilderness solitude. Our route will provide us with panoramic views from the crest of the Mogollon Mountains to the rugged, steep-walled canyons of the Gila River. Along the way we will bathe in hot springs and search for ruins of the ancient Mogollon culture. (Rated M) *Leader: Ted Doll. Price: $360; Dep: $50.* **[92132]**

Colorado "Fourteeners": Peakbagging Marathon—June 12–21. This trip is designed for participants who like to climb "fourteeners" (mountains more than 14,000 feet in elevation). We'll car-camp (and sometimes backpack) among Colorado's highest mountains—and then climb them! The lineup: Humboldt, Blanca, Ellingwood, Handles, Redcloud, Sunshine, Uncompahgre, and Castle. Van rental is included in the trip price; some meals will be on your own while we're in transit. With 30,000 vertical feet to climb, this trip is not for the inexperienced or out-of-shape. (Rated S) *Leader: Steve Kelton. Price: $685; Dep: $100.* **[92133]**

Paria Canyon, Vermilion Cliffs Wilderness, Utah—June 15–20. On our 33-mile backpack, we'll wade down the Paria River in the Southwest's most famous slickrock canyon. Hiking five to eight miles a day, we'll have ample time to enjoy the incredible Narrows, explore Buckskin Gulch, visit Wrather Arch, and scramble up beautiful side canyons. (Rated M-S) *Leader: Charles Bame. Price: $310; Dep: $50.* **[92134]**

Wildflowers and Waterfalls, Lion Lake Loop, Sequoia Park, Sierra—June 16–24. Our approach to Nine Lake Basin from Crescent Meadow will take us through giant sequoias and a riot of spring wildflowers. With some cross-country travel, our route continues up to the high Tableland, its shining granite knifed by turbulent whitewater runoff. Layover days will give us time for fishing, peakbagging, photography, and botany. Elevations range from 6,400 to 11,000 feet. Experienced backpackers as well as spirited and adventurous beginners are welcome. (Rated M-S) *Leader: Melinda Goodwater. Price: $300; Dep: $50.* **[92135]**

In the Shadow of the Le Conte Divide, John Muir Wilderness, Sierra—June 18–27. Breathe in the cool, clear air of the mountains as they come alive with summer. We'll enjoy ten days of High Sierra beauty and solitude, with two layover days under the spires of the Le Conte Divide—the first at misnamed

STEVE OTHMER

HISTORICAL LEADER PROFILE

WILLIAM COLBY

Ansel Adams wrote of William Colby, "He carries with him a deep humanity, and the mood of the rivers and forests and clean white stone." William Colby's vision for the Sierra Club—and his work in carrying out that vision—were no less notable than John Muir's. As the Club's first secretary, he proposed and led the first outing to Yosemite, an event so inspirational to the young Club that it became an institution known as the High Trip. Colby continued leading the annual High Trip for the next 28 years, laying a foundation for the Outing Program that is still in place today. In his retirement, Colby recollected that he spent more than two years in the High Sierra on these trips. As an activist, Colby forged the Club's earliest "battles," as conservation campaigns were then called, taking the lead in the fights for Yosemite, Hetch Hetchy, and Kings Canyon.

BELOW: HIKERS ON THE TRAIL TO NAVAJO MOUNTAIN IN SOUTHEASTERN UTAH.

GIVE THE GIFT OF WILDERNESS WITH A SIERRA CLUB OUTING GIFT CERTIFICATE. SEE PAGE 89 FOR DETAILS.

Disappointment Lake below Hell-for-Sure Pass and the second in Bench Valley on secluded Crabtree Lake. A mix of on-trail and cross-country hiking will test your mettle. (Rated L-M) *Leader: Diane Cook. Price: $350; Dep: $50.* **[92136]**

The Subway and Orderville: Two Canyons in Zion Park, Utah—June 21–27. We'll explore two incredible slot canyons in pine and sandstone country, proceeding at a leisurely pace to allow time for picture-taking, swimming, and negotiating many challenging obstacles. After exploring the Subway, we'll begin the second part of our trip hiking down the North Fork of the Virgin River through the famous Narrows, and exit via Orderville Canyon. Midtrip restocking means lighter loads. (Rated M-S) *Leader: Michelle Line. Price: $480; Dep: $50.* **[92137]**

Cross-Country Backpack for Beginners, Ansel Adams Wilderness, Sierra—June 21–28. Learn safe and conscientious backpacking with knowledgeable and supportive leaders in the breathtaking Ansel Adams Wilderness. We'll cover 30 miles at high elevations traveling short distances and leaving afternoons free to swim, snooze, or explore. While brute strength isn't necessary, excellent physical preconditioning and a positive attitude are. Pretrip reading and correspondence with your leader will help prepare you for this outing. (Rated M) *Leader: Alline Anderson. Price: $325; Dep: $50.* **[92138]**

Enchanted Gorge Peakbagging, Kings Canyon Park, Sierra—June 25–July 8. Our 14-day, 100-mile backpack explores the entire northern section of Kings Canyon National Park. Our extremely strenuous route, mostly cross-country, leads us over ten passes, along precipitous cirques, and into the wildest gorge in the Sierra. Along the way we'll have the option of bagging more than a dozen peaks. A food drop will help lighten loads. Only experienced backpackers demanding a challenge should join. (Rated S) *Leader: Howard Drossman. Price: $485; Dep: $50.* **[92139]**

Fourth of July on the Appalachian Trail, Maine—June 28–July 4. In the secluded backcountry of western Maine, we'll enjoy a unique combination of lakes, streams, waterfalls, and above-treeline hiking. Our first hiking days are easy, with a stop at the best little sandy beach on Long Pond, where we'll encounter some moose. Once in the Bemis Mountains, several days of more than 2,500 feet in elevation change make this trip suitable for experienced backpackers only. (Rated M-S) *Leaders: Roy Silverfarb and Stew Meyers; Naturalist: Ron Felzer. Price: $415; Dep: $50.* **[92141]**

Mineral King to Kaweah Gap, Sequoia Park, Sierra—June 28–July 5. Our 43-mile loop takes us over the Great Western Divide and up the valley of the Big Arroyo to Nine Lake Basin; we'll return through Kaweah Gap. Hiking primarily on-trail, we'll detour cross-country to remote lakes for two layover days, providing ample time to enjoy the early-season wildflowers, fish for golden trout, swim, peakbag, or snooze. (Rated M) *Leader: Chuck Schmidt. Price: $275; Dep: $50.* **[92142]**

Chinese Wall, Bob Marshall Wilderness, Montana—July 3–12. Our long walk will take us through the heart of one of the largest wilderness areas in the contiguous 48 states. We'll explore the source of the Flathead River, travel through forested wilderness, and pass

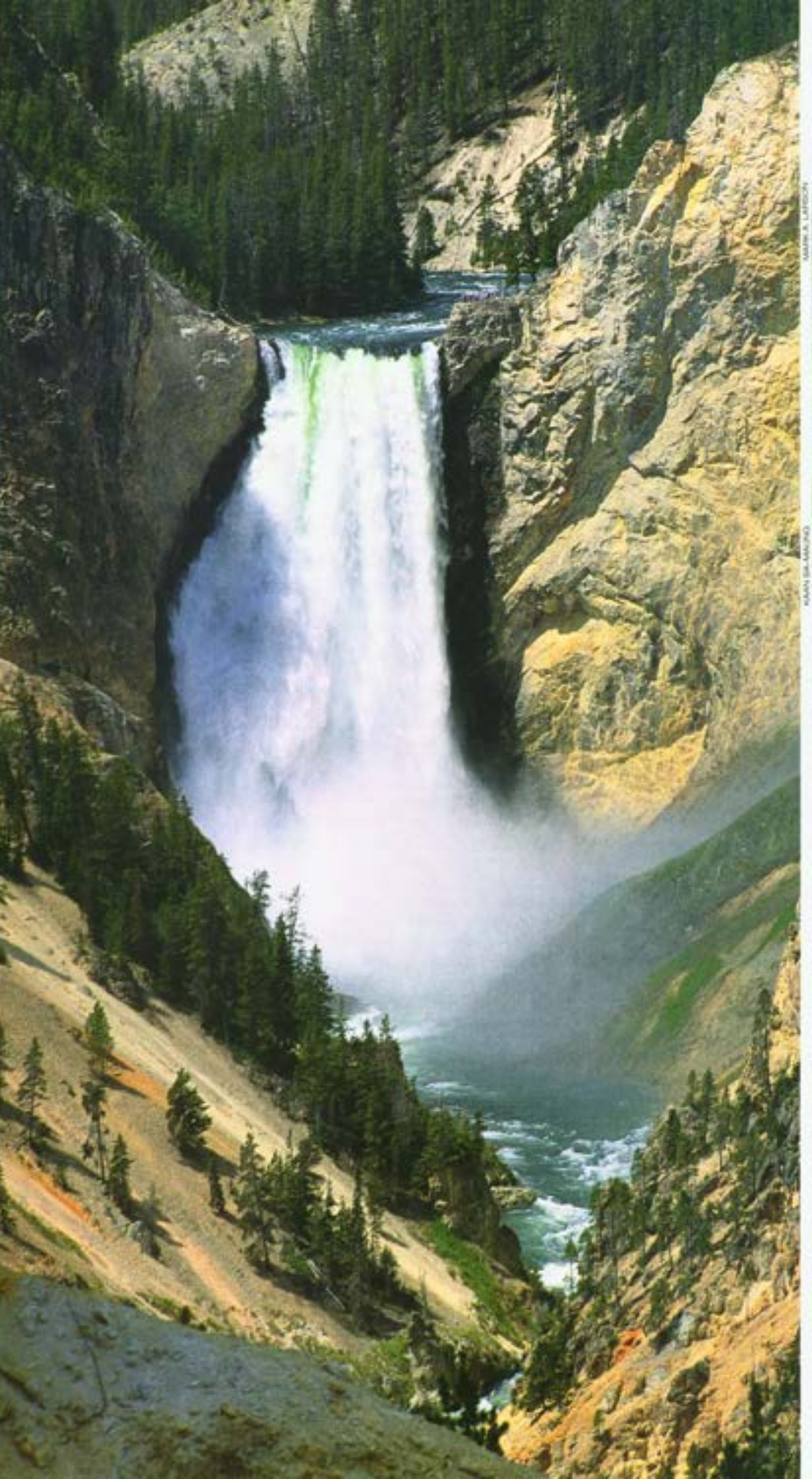
CONSERVATION CHALLENGE

GOSHAWK HABITAT THREATENED

Logging of old-growth trees in northern Arizona's Kaibab National Forest is destroying the forest ecosystem; one species experiencing sharp decline as a consequence is the northern goshawk. Before intensive logging began in the 1950s, an estimated 260 nesting goshawk pairs inhabited the Kaibab plateau. By 1990, there were only 27, most of which lived in the Kaibab National Forest, north of the Grand Canyon. These figures indicate an urgent need to preserve this closed-canopy forest habitat for the goshawk.

What you can do: Write to the U.S. Forest Service and demand that the logging of goshawk habitat be stopped, and that old-growth trees be spared for future generations to enjoy and treasure. Send your letters to: Chief, Forest Service, U.S. Department of Agriculture, 201 14th St. SW, Washington, DC 20250.

Also consider going on a trip to the Kaibab National Forest. See trips #92081 and #92311 on page 99.



under the Chinese Wall. We'll traverse the wall cross-country to Needle Falls and exit via the Sun River. We'll cross the Continental Divide four times at 8,000-foot passes. Two layover days give us time to relax. (Rated M-S) *Leader: Roger Grisette. Price: $390; Dep: $50.* **[92143]**

Wildflower Extravaganza, Marble Mountain Wilderness, California—July 4–11. Come enjoy the deep forests, flower-laden meadows, and clear lakes of this beautiful wilderness. Located near the Oregon border, the Marble Mountains are known for their botanical diversity and incredible wildflower displays. Our 37-mile loop (with two layover days) will allow us to explore some of the Marbles' most scenic areas, with time for flower identification and photography. (Rated L) *Leader: Paul McKown. Price: $285; Dep: $50.* **[92144]**

West Coast Trail: North to South, Pacific Rim Park, Vancouver Island, British Columbia—July 6–14. Become a confident log walker, cable-car puller, and suspension-bridge swinger as you encounter a multitude of experiences and surprises on this eclectic island trail. As gray whales spout offshore, we'll explore waterfalls, lighthouses, tide-

LEFT TO RIGHT: LOWER FALLS OF THE GRAND CANYON OF THE YELLOWSTONE, WYOMING; GRAND CANYON NATIONAL PARK, ARIZONA; EASTERN BOX TURTLE.

pools, freshwater lakes, and densely forested coastal wilderness rich in wildlife. We'll utilize several ferries, including a Scottish freighter on the Alberni inlet. (Rated M) *Leader: Nadine Sanders. Price: $535; Dep: $100.* **[92145]**

Enchanted Valley, Olympic Park, Washington—July 6–15. Come explore the Olympic Peninsula's Enchanted Valley—also known as the Valley of a Thousand Waterfalls—plus Honeymoon Meadows, Anderson Glacier, rainforests, rivers, lakes, snowcapped peaks, mountain passes, and trails laid down by early explorers. This trip has it all: two layover days, side hikes, fishing, photography, and some of the most beautiful country you'll ever hike. If you want to see, feel, and get to know the Pacific Northwest, this is the trip for you. (Rated M) *Leader: Jim Kirkpatrick. Price: $535; Dep: $100.* **[92146]**

Ten Lakes Basin, Yosemite Park, Sierra—July 7–13. Join us on an adventure near the geographical center of Yosemite Park. We'll enjoy a variety of trees and flowers, as well as many outstanding views. Back-to-back layover days will give us time to day-hike among the deep blue lakes in this basin, swim, fish, and practice our photography. (Rated L) *Leader: Wes Reynolds. Price: $290; Dep: $50.* **[92147]**

Prince Creek, North Cascades Park, Washington—July 11–19. A two-hour ferry ride up Lake Chelan begins our visit to the North Cascades. Then we'll hike up Prince Creek to the Lake Chelan crest trail. After several days hiking in tall forests beneath jagged peaks, by lakes and across mountain passes, we'll conclude our trip with a relaxing evening at the Courtney Ranch in beautiful Stehekin Valley. (Rated M-S). *Leader: Rodger L. Faulkner. Price: $535; Dep: $100.* **[92149]**

Selway-Bitterroot Wilderness, Idaho and Montana—July 17–24. This wilderness is the second-largest in the contiguous 48 states. From our start in Montana's Bitterroot River Valley, we will hike along dramatic canyons to the crest of the Bitterroot Mountains with their alpine lakes and then continue west to Idaho's Selway River. A pack delivery halfway through the trip will lighten our loads. Two layover days are planned. (Rated L-M) *Leader: Wayne Chamberlin. Price: $410; Dep: $50.* **[92151]**

San Juan Mountains, Weminuche Wilderness, Colorado—July 18–25. These mountains offer the well-conditioned hiker the very best in alpine hiking. We'll explore abandoned mines, scale 14,000-foot Windom Peak, fish for supper in trout-filled lakes, and finally flag a historic narrow-gauge train for a ride down into Durango. Our 45-mile route will let us experience it all. (Rated M) *Leader: Gene Glenn. Price: $355; Dep: $50.* **[92152]**

Bound for Blackcap, John Muir Wilderness, Sierra—July 18–26. Join us on a 50-mile adventure through a remote region of the John Muir Wilderness. Beginning at Courtright Reservoir, our loop hike takes us through red fir and Jeffrey pine forests before emerging into the alpine country of the Le Conte Divide. Two high passes promise exceptional views. We'll enjoy layover days beneath rugged peaks rising from flower-filled meadows. (Rated M) *Leader: Gary Swanson. Price: $320; Dep: $50.* **[92153]**

Northern Sierra Crest, Tahoe Forest, Sierra—July 19–26. Enjoy the beautiful forests of the Crystal Range and the grand vistas of Lake Tahoe, Granite Chief, and the Desolation Valley Wilderness. We'll also see where the first emigrants made their crossing, as well as the tracks of the first transcontinental train, and the pony express route. This backpack trip suitable for beginners and veterans concludes with a restful night at the Sierra Club's Clair Tappaan Lodge. At an elevation of 7,000 feet, the lodge is two miles west of Donner Pass. (Rated M) *Leader: Bob Ruff. Price: $285; Dep: $50.* **[92154]**

SIERRA SAMPLERS

Black Buttes, Tahoe Forest, Sierra—June 28–July 3. Starting with a night at the Sierra Club's Clair Tappaan Lodge near Donner Pass, we'll hike cross-country in short moves, exploring early Indian habitats, abandoned mines, ghost towns, and seldom-visited lakes. Campfire discussions and lectures will make ours a history-oriented backpack. (Rated L-M) *Leader: Serge Puchert. Price: $230; Dep: $50.* **[92140]**

Shepherd Crest, Yosemite Park, Sierra—July 13–16. This trip is a magnificent introduction to Yosemite high country. Although we'll hike mostly on-trail, we'll also have some challenging but manageable cross-country travel. Two of our campsites will be in jewel-like settings—near lakes set in granite, bordered by lush alpine forests. (Rated L-M) *Leader: Bob Madsen. Price: $180; Dep: $50.* **[92150]**

Lure of the Ritter Range, Ansel Adams Wilderness, Sierra—August 2–7. From the breathtaking view of the Minarets to the forested glens of Shadow Creek, our short trip has much to offer the well-seasoned backpacker. Come sample the numerous lakes and streams in this grand circular tour at the base of the Ritter Range. We will travel approximately 35 miles, much of it cross-country, at elevations ranging from 8,000 to above 10,000 feet. (Rated M) *Leader: Hilary Bray. Price: $215; Dep: $50.* **[92169]**

Crossing the Great Western Divide, Sequoia Park, Sierra—August 16–20. This is the see-it-all sampler: lush forests, flower-filled meadows, alpine lakes, and mountains to climb. Expect on-trail and cross-country hiking, five-star food, and enthusiastic leaders. A layover day gives us a chance to relax or climb the Sierra Crest for a "top of the world" view. (Rated M) *Leader: Richard Gross. Price: $235; Dep: $50.* **[92185]**

Barrett Lakes, John Muir Wilderness and Kings Canyon Park, Sierra—August 23–27. Visit the beautiful, rugged Palisades on the Sierra Crest. From South Lake we will hike over Bishop Pass and camp at Barrett Lakes in Palisade Basin. We will travel short mileages each day, giving us plenty of time for fishing, photography, and casual exploration. (Rated L-M) *Leader: Joe Sinclair. Price: $255; Dep: $50.* **[92192]**

Backpack

Gemini Circle, John Muir Wilderness, Sierra—July 23–August 1. We travel a land of pure enchantment, finding a generous measure of high-elevation cross-country adventure in a 50-mile, ten-day circle out of Florence Lake. This west front of the John Muir Wilderness contains a galaxy of idyllic lakes, plus backdrops of finely sculptured peaks, including Seven Gables, Turret, Feather, and twin-spired Gemini. (Rated M) *Leader: Jim Watters. Price: $340; Dep: $50.* **[92156]**

Women's Beginner Backpack, Ansel Adams Wilderness, Sierra—July 25–August 1. Beginners and experienced backpackers alike will find magnificent views within easy reach in this lake-studded, seldom-visited wilderness south of Yosemite National Park. Elevations range from 7,000 to 10,500 feet, with a total hiking distance of about 30 miles. We'll travel short distances on- and off-trail with some rock scrambling, leaving most afternoons free to swim, relax, explore, and perfect wilderness skills. (Rated L) *Leader: Alice Kulka. Price: $270; Dep: $50.* **[92158]**

Peakbagger's Paradise: Sangre de Cristo Mountains, Colorado—July 25–August 2. Crossing the heart of the Sangre de Cristo Mountains, our 50-mile route provides access to more than 30 summits above 13,000 feet. We'll be challenged by the most rugged terrain in the Rockies, including several passes more than 12,500 feet high. Three layover days plus several short hiking days give us plenty of time to bag some peaks. (Rated M-S) *Leader: TBA. Price: $595; Dep: $100.* **[92159]**

Bear Lakes and Beyond, John Muir Wilderness, Sierra—July 26–August 2. Our 45-mile route beneath rugged Glacier and Mono divides features the contrasting beauty of timberline country: rockbound lakes, cobalt skies, and monolithic mountains. We'll go off-trail to visit Humphreys Basin and Merriam Lake, then cross 12,350-foot Feather Pass to explore remote Bear Lake Basin. One layover day gives us time to climb Seven Gables. You'll be too awed to shout! (Rated M) *Leader: Scott Kingham. Price: $305; Dep: $50.* **[92160]**

Cirque of the Towers, Wind River Range, Wyoming—July 26–August 2. On the south end of Wyoming's Wind River Range are 18 granite spires that rise 2,500 feet above Lonesome Lake to form the Cirque of the Towers. Our route to the Cirque begins at Big Sandy Opening, then returns via Texas, Illinois, and Washakie passes. Three layover days are planned. This trip is for experienced backpackers in good condition. (Rated S) *Leader: Dave Derrick. Price: $460; Dep: $50.* **[92161]**

Fire, Ice, and the Emigrant Trail, Emigrant Wilderness, Sierra—July 26–August 2. Alpine meadows, isolated lakes, vast slopes of polished granite and red pumice: Accompanied by a historian, we will experience these and more as we lake-hop along an emigrant route from Sonora Pass through the northeastern boundary of Yosemite to Kennedy Meadows. One short hiking day and a layover give us time for climbing, relaxing, or conversing with the historian on this 40-mile (five of them cross-country) trek. (Rated L-M) *Leader: Jerry Sloluker. Price: $310; Dep: $50.* **[92162]**

CLOCKWISE FROM TOP RIGHT: TURKEY; CUTTHROAT TROUT, ABSAROKA-BEARTOOTH WILDERNESS, MONTANA; LENTICULAR CLOUD OVER OWENS VALLEY, CALIFORNIA.

FOR MORE INFORMATION ABOUT A TRIP, SEND FOR THE TRIP BROCHURE. USE THE COUPON ON PAGE 118.

GORDON WILTSIE

TIM EGAN

Great Western Divide Natural History Ramble, Kings Canyon and Sequoia Parks, Sierra—July 27–August 5. Our 54-mile exploration of Sierra ecology ranges from Great Basin sage and foxtail pine communities to lovely streamside meadows above treeline. Highlights include a biologist escort, having most of our food packed in, optional peak climbs on layover days, and cross-country hiking (17 miles) through dramatic alpine scenery. High-mountain backpack experience is desirable. (Rated M) *Leaders: Cal and Louise "Letty" French. Price: $365; Dep: $50.* **[92163]**

High Granite Ramble, John Muir Wilderness, Sierra—July 28–August 8. Ours is a cross-country, packer-assisted ramble through the northern John Muir Wilderness. High-country exploration from the Silver to the Mono Divide takes us over granite slabs, along high-altitude lakes, and through the Second Recess woods. On our 12-day trip, five layover days are scheduled for peakbagging, fishing, and dayhikes. Add five-star cuisine for your best backpack trip yet. (Rated L-M) *Leader: Stuart Simon. Price: $475; Dep: $50.* **[92165]**

Wind River Lakes, Bridger Wilderness, Wyoming—August 1–8. Join us on a 40-mile loop hike through magnificent lake country to Middle Fork Lake (10,250 feet) near the Continental Divide. On two layover days we can fish, explore the flanks of Mt. Bonneville (12,230 feet), or relax among the wildflowers. A food drop will lighten our loads. For well-conditioned backpackers. (Rated M-S) *Leader: Jack Zirker. Price: $455; Dep: $50.* **[92167]**

Red Mountain Basin Meander, John Muir Wilderness and Kings Canyon Park, Sierra—August 1–9. Wonderful scenery and alpine lakes are the highlights of our ramble through Kings Canyon National Park. A packdrop midway will lighten our loads. Two layover days give us plenty of time to climb a peak, fish, swim, or relax. Come and enjoy good food, camaraderie, and a beautiful wilderness. (Rated M) *Leader: Sy Gelman. Price: $375; Dep: $50.* **[92168]**

Wildflowers of the Continental Divide, Weminuche Wilderness, Colorado—August 2–8. Starting near historic Silverton at Stony Pass, most of our 35-mile route follows the rugged Continental Divide through a kaleidoscope of alpine wildflowers and grand vistas. A naturalist will accompany us to interpret botany and geology. Daily hiking distances will be short, but elevations of 11,000 to 12,000 feet require good physical condition. One layover day is planned. (Rated L-M) *Leader: Suzanne Swedo. Price: $410; Dep: $50.* **[92170]**

Beckler Backcountry: Waterfalls and Hot Springs, Yellowstone Park, Wyoming—August 2–9. The southwest corner of Yellowstone Park contains a wonderful concentration of rivers, waterfalls, hot springs, luxuriant vegetation, and abundant wildlife. Our 50-mile loop (ten miles cross-country) includes two layover days for waterfall bagging, whirlpool soaking, fishing, and loafing. For experienced backpackers only. (Rated M) *Leaders: Dunbar and Alice Suong. Price: $340; Dep: $50.* **[92171]**

Teton-Washakie Traverse, Teton and Shoshone Forests, Wyoming—August 4–13. Be on the lookout for moose and elk as we wander into the heart of the high Absarokas. After gradually climbing to Ferry Lake, we'll cross the Continental Divide at Marston Pass and visit a petrified forest along Frontier Creek. A food cache and two layover days will help remind us we're on vacation. (Rated L-M) *Leader: Eric Sieke. Price: $430; Dep: $50.* **[92172]**

Trout Odyssey, Sawtooth Wilderness, Idaho—August 5–13. The uncrowded Sawtooth Range is among the most magnificent in the contiguous 48 states. Our 45-mile back-

CONSERVATION CHALLENGE

MINING PROPOSED FOR THE MAROON BELLS-SNOWMASS WILDERNESS

A corporation is seeking to develop a marble quarry along Conundrum Creek two and a half miles inside the spectacular Maroon Bells-Snowmass Wilderness. For thousands of years the creek has been carving a beautiful, precipitous valley in this wilderness, the head of which is ringed by craggy peaks more than 13,000 feet high.

The Mined Land Reclamation Board has issued the Colorado Conundrum Mining Corporation a conditional permit to begin operations, but the corporation has not yet begun quarrying because it does not have the necessary road permit from Pitkin County.

What you can do: Write to the Pitkin County Commissioners, 530 E. Main St., Aspen, CO 81611, and ask them to deny a road permit to the corporation. Also express your concerns to Colorado Senator Hank Brown, U.S. Senate, Washington, DC 20510. Brown supports the effort to develop the quarry.

Also consider going on trip # 92350 (see page 104) to the Maroon Bells-Snowmass Wilderness.

Backpack

TOP: PREPARING DINNER AT SAUERKRAUT LAKE, BRIDGER-TETON WILDERNESS, WYOMING; BOTTOM: BUTTERFLY ON CORDILLERAN ARNICA.

HOWARD NEWMARK

DONNA WELLS

pack will take us to many high alpine lakes in search of gullible trout. Several layover days are planned. Beginning backpackers are welcome. (Rated L-M) *Leader: TBA. Price: $555; Dep: $100.* **[92173]**

Le Conte Divide, John Muir Wilderness, Sierra—August 6–14. Rejuvenate both body and spirit exploring ridges, basins, and lakes west of the Le Conte Divide. Our 49-mile route from Courtright to Wishon reservoirs includes 11,500-foot passes leading to upper Bench Valley and Blackcap Basin near the northwest border of Kings Canyon National Park. Moving days include both on- and off-trail hiking; two layover days are scheduled. (Rated M) *Leader: Bob Anderson. Price: $335; Dep: $50.* **[92175]**

Kaweah Sanctuary, Sequoia Park, Sierra—August 8–18. Our goal is to reach a remote garden spot deep in the High Sierra. From Giant Forest, we'll cross the Great Western Divide, explore Nine Lake Basin, and find a passage to magnificent Kaweah Basin, framed by the Kaweah peaks to the west and a precipitous drop off to the east. Our return route gives us an opportunity to climb Mt. Kaweah and explore the delightful Little Five Lakes. (Rated M-S) *Leader: Mari Calhoun. Price: $355; Dep: $50.* **[92176]**

A Thousand Island Odyssey, Yosemite Park and Ansel Adams Wilderness, Sierra—August 9–15. Wake up to sunrise alpenglow as we follow the eastern crest of the Sierra from Yosemite's Mono Pass (10,600 feet) over the Koip Crest (12,300 feet) to Thousand Island Lake. We'll have a layover day before crossing back into Yosemite over Donohue Pass (11,050 feet). Our high-altitude, 40-mile hike is almost all on-trail and crosses six passes. A packer assist makes it suitable for strong beginners. (Rated L-M) *Leader: Karen Backer. Price: $265; Dep: $50.* **[92177]**

French Canyon Amble, John Muir Wilderness, Sierra—August 9–16. This 27-mile hike (some cross-country) takes us gently through dramatic alpine country. We'll have three layover days to explore the lakes of Humphreys Basin and the lush parklands of French Canyon, plus we'll enjoy creative camp cuisine! Well-prepared beginners and laid-back veterans who appreciate granite are welcome. A packer assist will lighten our load the first day. (Rated L) *Leader: Kate Froman. Price: $380; Dep: $50.* **[92178]**

Three Lakes Loop, Mineral King, Sequoia Park, Sierra—August 9–16. Let's cross the Great Western Divide (11,600 feet) to a rarely visited area of pristine lakes and alpine peaks. Starting at Mineral King, we will visit Franklin Lakes, Forester Lake, and Amphitheater Lake, with three layover days to enjoy this scenic area. The total distance covered is 26 miles (six cross-country). (Rated L-M) *Leader: Hal Fisher. Price: $290; Dep: $50.* **[92179]**

Gabbot Pass Loop, John Muir Wilderness, Sierra—August 10–18. From dense evergreen forests to magnificent peaks, from scenic creeks to high alpine lakes, our 40-mile trip (ten cross-country) covers the essence of the Sierra backcountry. Starting near Lake Thomas A. Edison, we'll visit the Bear Lakes area and the Second Recess. Relatively short daily mileages and two layover days should provide time for individual interests. Motivated beginners are welcome. (Rated L-M) *Leader: Patty Biasca. Price: $345; Dep: $50.* **[92180]**

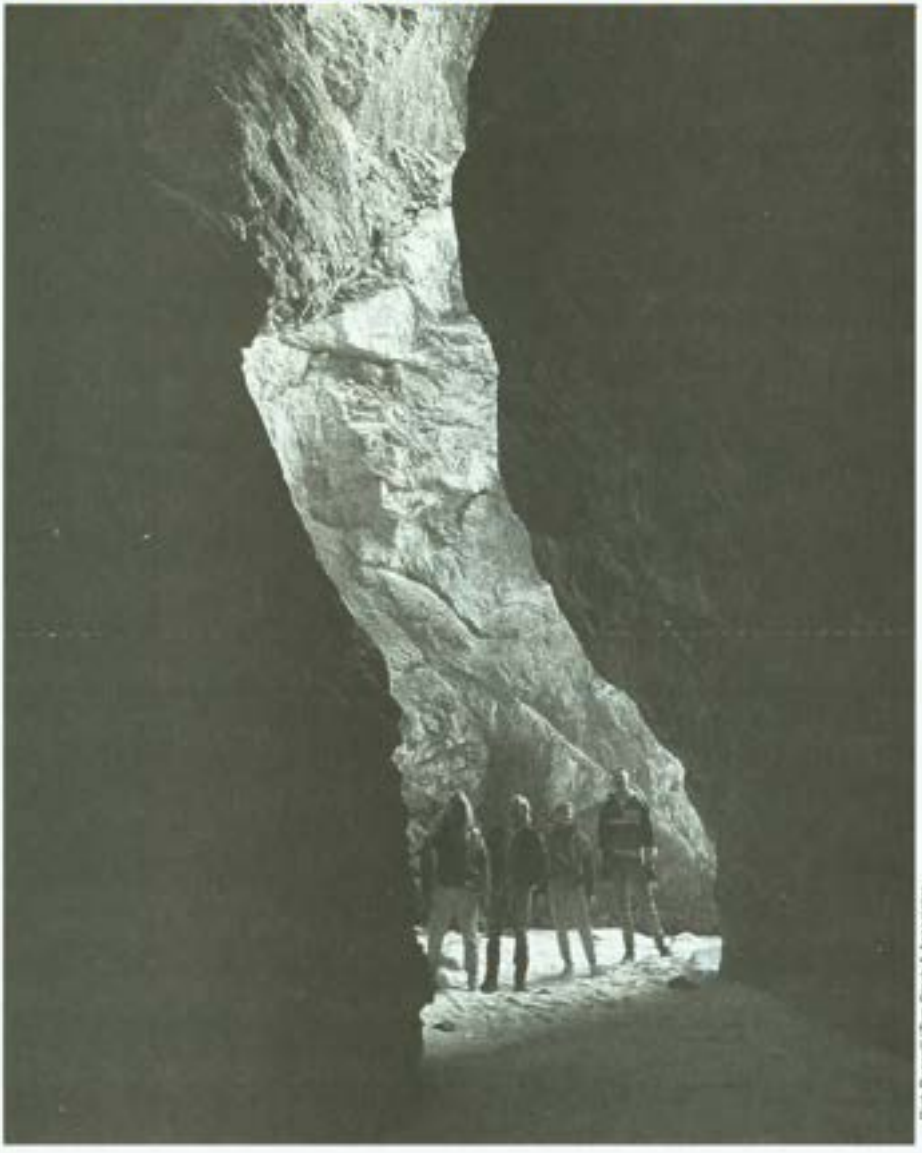
Creeks, Canyons, and Meadows, Sequoia Park, Sierra—August 11–20. At a Mineral

HISTORICAL LEADER PROFILE

JIM AND CASSIE HARKINS

Calamity struck the 1940 High Trip when damp weather spoiled all the meat and the hired cook got drunk and opened up all the canned vegetables to make one big stew—days before the trip ended. The next year Jim Harkins and Charlotte Mauk, who had been "unpaid" assistants, became the first voluntary commissary staff, a position that Jim continued to hold until the last High Trip in 1971. Jim's involvement in High Trips came at a changing of the guard. As he puts it, "The amateurs were taking over from the old boys." In this case, the "amateurs" were Dick Leonard, David Brower, and Oliver Kehrlein. In addition to his commissary duties, Jim was an avid peakbagger. He climbed 120 peaks, 25 of them first ascents. Jim's daughter, Cassie, has carried on the family tradition of providing excellent meals on Sierra Club trips. She accompanied her father on the 1961 High Trip when she was eight. Although she was a "paying customer" until the age of 15, Jim reports that she was working from her very first trip. Cassie's first official commissary staff position was on the 1968 High Trip led by current Club president Philip Berry. When the cook got sick and the assistant went off on a hike, Cassie found herself preparing beef stew for the first time—for 75 people. Nevertheless, Cassie has served on commissary staff every year since. This summer, Cassie will oversee the commissary on the special Centennial Trip in Yosemite (see page 75). She'll be assisted by her sister Betsy Sumida, and Jim will lend a helping hand.

Take An Environmental Stand.



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TO APPLY FOR A TRIP, USE THE APPLICATION FORM INSERTED BETWEEN PAGES 96 AND 97.

King trailhead, a packer assist the first day starts us off over the massive Great Western Divide, where we'll savor unlimited views of alpine country. Our trip covers 56 miles in eight moving days with a layover day at a relaxing hot springs. Mostly on-trail with one day of cross-country, we'll hike through such areas as Rattlesnake Creek, Sky Parlor Meadow, Chagoopa Falls, and Columbine Lake. (Rated M-S) *Leader: Carol Murdock. Price: $370; Dep: $50.* **[92181]**

Helen and Wanda Lakes, Kings Canyon Park, Sierra—August 14–22. We'll hike a loop through marvelous high country with many stark, dramatic lakes and passes en route from South Lake to North Lake via Evolution Basin. Our route includes Dusy Basin and beautiful Darwin Canyon. Expect vigorous hiking days and adventurous cross-country travel; layovers for exploring, relaxing, and swimming; and a food drop to help lighten loads. Be prepared for excellent food, photo opportunities, and camaraderie. (Rated M) *Leader: Fred Schlachter. Price: $415; Dep: $50.* **[92182]**

Weminuche Wilderness Wandering, San Juan Forest, Colorado—August 15–21. After riding the famous Durango & Silverton Narrow Gauge Railroad to the trailhead, we will hike 36 miles through wildflowers and deep valleys and cross a couple of high passes. On our layover day we have the option of climbing one of three 14,000-foot peaks. Come and savor summer's beauty in the Rocky Mountains—a wonderfully scenic place. This trip is suitable for experienced backpackers. (Rated M) *Leader: Gene Goldberg. Price: $360; Dep: $50.* **[92183]**

Flat Tops Wilderness, White River Forest, Colorado—August 15–22. This immense, high-alpine mesa provides unique hiking opportunities. Beginning at lovely Trappers Lake, we have a short, steep climb to the mesa, where abundant lakes, meadows, wildlife, and stunning vistas await us. We'll be at elevations of 10,000 to 11,000 feet. Four layover days give us time to scramble up peaks, hike, fish, practice our photography, or relax. (Rated M) *Leaders: Joanie and Mike Hoffmann. Price: $275; Dep: $50.* **[92184]**

Around Koip Crest, Yosemite Park and Ansel Adams Wilderness, Sierra—August 16–22. To commemorate the Sierra Club's Centennial, we'll follow John Muir's footsteps south from his Tuolumne Meadows summer camp toward Mt. Lyell's famous glacier. Golden meadows, glacial tarns, and glorious vistas surround us as we circle Koip and Kuna peaks. We complete our trip by following Muir's route of August 21, 1869—"a fine, wild excursion across the range." Total hiking distance is 40 miles; one layover day is planned. (Rated M) *Leaders: David and Frances Reneau. Price: $235; Dep: $50.* **[92186]**

Greater Yellowstone Ecosystem, Absaroka-Beartooth Wilderness, Montana and Wyoming—August 16–22. Explore a small portion of this endangered ecosystem with its mountains of granite pinnacles and crags, 10,000-foot wildflower plateaus, and thousands of glacier-fed alpine lakes. We'll see abundant and varied wildlife on our 45-mile hike, including moose, elk, eagles, mountain sheep, and maybe even a grizzly bear. With one or two layover days, we'll have time to fish for wily trout, bag a peak, or relax. (Rated M-S) *Leader: David Morrison. Price: $415; Dep: $50.* **[92187]**

JON DNAS

Minaret Peaks and Lakes, Ansel Adams Wilderness, Sierra—August 16–22. Five miles east of Yosemite lie the Minarets, an area of rugged volcanic peaks, glaciers, and moraine-trapped lakes. This seven-day, 32-mile loop winds through and around the Minarets. We'll enjoy dayhikes in a beautiful, stark alpine setting, campsites at Lakes Ediza and Garnet, and a climb of 13,157-foot Mt. Ritter. (Rated M) *Leader: Roxann Hanning. Price: $345; Dep: $50.* **[92188]**

Northeast Yosemite Natural History, Yosemite Park, Sierra—August 16–22. The rugged country around Matterhorn Peak offers the finest of Yosemite's sweeping vistas, glacial lakes, and flowering meadows—without the usual crowds. A naturalist will help identify wildflowers and geologic features along our 35-mile route. Short hiking days, including one layover, allow time for botany, photography, and fishing; but high elevations (10,000 to 12,000 feet) require good physical condition. (Rated L-M) *Leader: Suzanne Swedo. Price: $265; Dep: $50.* **[92189]**

In Search of the Wild Onion, Mono Divide, John Muir Wilderness, Sierra—August 20–28. Vast, exhilarating panoramas of lake-studded granite escarpments and range after range of peaks reward the spirited backpacker on this moderately paced romp. From Florence Lake we negotiate a route by trail and cross-country deep into the heart of the remote Bear Lake country and Mono Divide. Two layover days are scheduled for swimming, peak-bagging, and photography. Strong, stouthearted, enthusiastic beginners and teenagers are welcome. (Rated M) *Leader: Patrick Colgan. Price: $340; Dep: $50.* **[92190]**

Middle Fork of the Kings River, John Muir Wilderness and Kings Canyon Park, Sierra—August 20–29. Because it offers no quick, easy access, the Middle Fork of the Kings River is seldom visited despite its attractions—unparalleled trout fishing, the wild grandeur of the canyon, and several areas of historical interest. On our way in we'll follow the abandoned trail Frank Dusy built in the 1870s to get his sheep to beautiful Simpson Meadow. (Rated M-S) *Leader: Gordon Peterson. Price: $330; Dep: $50.* **[92191]**

Emigrant Trail, Tower Lake, and Hawksbeak Peak, Toiyabe Forest, Sierra—August 23–29. Beginning our trek along the historic Emigrant Trail, our 41-mile backpack from Leavitt Meadows to Twin Lakes takes us to subalpine lakes on the boundary of Yosemite National Park and through glacier-hewn canyons bordered by towering granite peaks. We will have one layover day to explore, fish, or relax. Expect a vegetarian menu. (Rated L-M) *Leader: Lee Sayers. Price: $300; Dep: $50.* **[92193]**

Matterhorn and Sawtooth: Yosemite North Country, Yosemite Park and Toiyabe Forest, Sierra—August 23–30. Northern Yosemite provides a spectacle of mountain grandeur, where forest, water, wildflowers, and trout abound.

LEFT: BROKEOFF MOUNTAIN TRAIL, LASSEN VOLCANIC NATIONAL PARK, CALIFORNIA; RIGHT: BLUE LAKE, ANSEL ADAMS WILDERNESS, SIERRA.

CHARLES FORD

Two layover days plus a packer assist the first day give us the time and energy to contemplate and explore lodgepole and whitebark-pine forests, mountain summits, lakes, and high meadows. A visit to Peeler Lake should satisfy any angler. (Rated L-M) *Leader: Linda Jordan. Price: $340; Dep: $50.* **[92194]**

Goddard's Country, Kings Canyon Park, Sierra—August 28–September 5. This classic backpack trip begins with a boat ride across Florence Lake. Mules lighten our loads the first day as we embark on a loop through Goddard Canyon, Ionian Basin, and Evolution Valley. Peakbaggers can try Mt. Goddard, and everyone can soak in Blaney Hot Springs. We'll hike a total of 53 miles, with 11 miles cross-country. Two layover days are planned. (Rated M) *Leader: Joe Uzarski. Price: $490; Dep: $50.* **[92195]**

Ionian Idyll, Kings Canyon Park, Sierra—August 29–September 6. Join adventure-seeking hikers on a scamper through the northern heart of Kings Canyon National Park. One-third of our 50-mile route is challenging cross-country, with an easy west-side start. Highlights include Ionian and Blackcap basins, Mt. Goddard, Evolution Valley, and layover days to explore the Sierra's secrets. Come enjoy the delicious food, entertaining staff, and rewarding hiking. (Rated M-S) *Leader: Cahit Kitapliqlu. Price: $315; Dep: $50.* **[92196]**

Sierra Traverse: From Ancient Giants to Mt. Whitney, Sequoia Park, Sierra—September 1–10. Our 50-mile route crosses the width of the Sierra. Starting on the west side two miles from the world's largest tree, we'll hike over the Great Western Divide and crest the east side near Mt. Whitney. Come walk to the end of the John Muir Trail at the highest point in the 48 contiguous states, the summit of Mt. Whitney (14,494 feet). (Rated M-S) *Leader: Vic Porter. Price: $350; Dep: $50.* **[92197]**

Sierra Traverse: From Mt. Whitney to Ancient Giants, Sequoia Park, Sierra—September 1–10. Travel east to west across the broadest and highest section of the Sierra, and climb 14,494-foot Mt. Whitney. Come along as we visit lakes, meadows, and colls in picturesque Kaweah Basin, and arrange a key swap with our west-east counterparts. We will have ample opportunities for photography, swimming, camaraderie and enjoying the High Sierra majesty. (Rated M-S) *Leader: Al Lyon. Price: $350; Dep: $50.* **[92198]**

Silver Divide Lakes, John Muir Wilderness, Sierra—September 9–16. We'll circumnavigate Red and White Mountain on the Sierra Crest south of Mammoth Lakes. Hiking a total of 35 miles, we'll enjoy the colorful valley along McGee Creek, lake-filled Fish Creek Basin, and a lake basin high above Mono Creek Valley. We'll have two layover days and relatively easy travel at the beginning of the trip. (Rated M) *Leader: Bill Enos. Price: $310; Dep: $50.* **[92199]**

Meadows and Tableland, Sequoia Park, Sierra—September 11–19. The crowds will be gone! Join us at Wolverton near Giant Forest for a partly on-trail and partly cross-country loop to the many lakes of the rolling granite Tableland. We'll have three layover days for dayhikes, fishing, photography, sunbathing, and swimming. Expect tasty food and maybe even trout. A packer assist will lighten our load the first day. (Rated L-M) *Leader: Lou Wilkinson. Price: $365; Dep: $50.* **[92200]**

Long Trail Explorer, Vermont—September 13–19. The Long Trail is one of the oldest long-distance hiking trails in the country. Averaging five miles per day over steep and rugged terrain, we will hike the crest of the Green Mountains, climbing Mt. Ellen (4,135 feet) and Camels Hump (4,083 feet). Excellent views of Lake Champlain, the Adirondacks, and New Hampshire's White Mountains line our route. A food cache will help lighten our load. (Rated M-S) *Leader: Frank J. Traficante. Price: $320; Dep: $50.* **[92201]**

Rio Chama Headwaters, Rio Grande Forest, New Mexico—September 19–27. Explore a unique corner of the San Juan Wilderness, travel the Continental Divide Trail, hear elk bugling in the rugged mountains, and learn about the area's history and ecology as we cross varying terrain from 9,000 to 12,000 feet. (Rated M) *Leader: Brian Johnson. Price: $360; Dep: $50.* **[92202]**

Fall Color, Pictured Rocks Lakeshore, Upper Peninsula, Michigan—September 20–26. Enjoy fall color in one of the Midwest's premier settings. Lake Superior's Pictured Rocks cliffs, softwood and hardwood forests, Twelvemile Beach, and an abandoned lighthouse will enhance our five- to six-mile hiking days over relatively flat terrain. (Rated L-M) *Leader: Jack Thompson. Price: $355; Dep: $50.* **[92203]**

Summer's End in the Adirondacks, Adirondack Park, New York—September 20–26. Adirondack State Park is beautiful in any season, but

CONSERVATION CHALLENGE

YOSEMITE NATIONAL PARK NEEDS HELP

Yosemite National Park is under attack: The enemies are overdevelopment and overuse.

In 1980, the National Park Service issued a General Management Plan (GMP) for Yosemite National Park, aimed to reduce commercialization in Yosemite Valley, and it had the Club's vigorous approval. But 11 years later, virtually none of the GMP's provisions have been implemented, and there are more commercial outlets in the valley than ever. The concessionaire, the Yosemite Park and Curry Company, flaunts its power over the National Park Service and ignores GMP directives that would reduce its profits.

What you can do: Write to James Ridenour, Director, National Park Service, Department of the Interior, P.O. Box 37127, Washington, DC 20013-7127, and insist that the National Park Service move forward on two vital aspects of the GMP: providing public transportation to help reduce private automobile traffic in Yosemite Valley, and moving administrative and residential facilities to suitable locations outside of the valley.

Also consider going on a trip to Yosemite. For a listing of these trips see page 116 in the Geographic Index.

Backpack

autumn colors provide the most magnificent backdrop for our seven-day adventure. Our 50-mile backpack will cover the highlights of the High Peaks region—imposing Mt. Marcy (5,344 feet), inspiring Avalanche Pass, and irresistible Lake Colden. (Rated M-S) *Leader: Jim Lynch. Price: $405; Dep: $50.* **[92204]**

Indian Summer in Glacier Park, Montana—September 25–October 3. Come experience Indian summer on a 55-mile Glacier National Park sojourn: Aspen, maples, and western larch form a rainbow of gold, yellow, and orange-red against a radiant blue sky; a sprinkling of first snow will etch the higher peaks; and wildlife will have begun preparing for winter. Our hike will be mostly on-trail at elevations below 8,000 feet. Two layover days are scheduled. (Rated M) *Leader: Bill Evans. Price: $535; Dep: $100.* **[92205]**

The Parunuweap, Zion Park, Utah—September 26–October 3. One of the deepest and least-visited canyons in southern Utah, the Parunuweap is threatened by a dam on the East Fork of the Virgin River. Come see why this incredible gorge should be saved, and explore its numerous side canyons and the slickrock of Upper Zion. (Rated S) *Leader: Howard Newmark. Price: $410; Dep: $50.* **[92206]**

Dark Canyon Wilderness, Utah—September 27–October 3. From aspen groves at 8,000 feet, we descend Woodenshoe and lower Dark canyons to desert country at 3,500 feet. As they deepen, the canyons unfold like a story, with daily surprises. A crystalline stream with plunge pools highlights our last four days. We'll be challenged by rough, cross-country hiking and a steep talus and slickrock ascent. This trip is a geologist's and photographer's delight. (Rated M) *Leader: Steve Moore. Price: $425; Dep: $50.* **[92207]**

Powell Plateau, North Rim, Grand Canyon Park, Arizona—September 27–October 9. Our 13-day trek follows the route described by George Steck in *Grand Canyon Loop Hikes I*. We will proceed down Tapeats Creek, then around the Tonto Platform to Shinumo Creek and Bass Camp. We will return to our starting point via the North Bass Trail. A prearranged cache will make our packs lighter. For experienced hikers only. (Rated S) *Leader: Bert Fingerhut. Price: $630; Dep: $100* **[92208]**

Escalante Canyons, Glen Canyon Recreation Area, Utah—October 4–10. Escalante features a unique combination of hidden alcoves, sculptured sandstone arches, hanging gardens, and waterfalls. The rust-colored streams along our route contrast with clear emerald pools tucked away in finely chiseled side canyons. We'll have enough time for leisurely exploration. (Rated M-S) *Leader: Jim Lynch. Price: $400; Dep: $50.* **[92209]**

Great West Canyon, Zion Park, Utah—October 4–10. Experience the rugged wilderness of Zion's sandstone high country on this trek over high domes, across potholed slickrock, and through narrow and magical canyons. This remote backcountry has the best to offer the seasoned backpacker. Weather conditions permitting, we'll traverse spectacular Subway for our grand finale. (Rated S) *Leader: Don McIver. Price: $420; Dep: $50.* **[92210]**

Paria Canyon: A Southwest Autumn, Utah and Arizona—October 4–10. With warm, bright days and cool nights, autumn is the ideal time to hike this deep Navajo sandstone canyon carved by the Paria River.

CRAIG FUCILE

LEFT: ANZA-BORREGO STATE PARK, CALIFORNIA (REPRINTED FROM THE 1992 SIERRA CLUB WILDERNESS CALENDAR).

Amidst towering canyon walls, alcoves, and arches, we'll cross a multitude of easily waded streams and explore beckoning side canyons. Solitude and sand-bench campsites make this a premier Southwest outdoor experience. (Rated M) *Leader: Belva Christensen. Price: $355; Dep: $50.* **[92211]**

The Needles, Canyonlands Park, Utah—October 11–17. A labyrinth of box canyons, buttes, upright fins, standing rocks, arches, Indian art, and solitude defines the Needles District of Canyonlands. There seems no limit to the shapes and colors this spiderweb of canyons offers. Layover days give us time to find the hidden treasures of Chesler Park, Druid Arch, and Salt Creek's Anasazi ruins and enigmatic pictographs. (Rated L-M) *Leader: Blaine LeCheminant. Price: $495; Dep: $50.* **[92212]**

Temples of Grand Canyon Park, Arizona—October 11–17. The October light will cast a special glow on the majestic formations of the Grand Canyon. Join us as we explore a remote part of the South Rim. We will descend the Tanner Trail to the Colorado River and hike downstream, exploring beautiful side canyons, viewing rushing rapids, and marveling at the 3,000-foot temples that surround us. Our journey will cover 45 miles (ten cross-country) and includes one layover day. (Rated M-S) *Leader: Gary Beckstrom. Price: $380; Dep: $50.* **[92213]**

Appalachian Autumn, Joyce Kilmer-Slickrock and Citico Wildernesses, North Carolina and Tennessee—October 17–24. Savor the brilliance of fall in southern Appalachia's last remaining hardwood forests, and experience the solitude of Wildcat Falls deep in Slickrock Creek basin. From our three different campsites we'll be free to explore or relax. Temperatures will be comfortably cool, and we'll be at elevations of 1,800 to 5,400 feet. Individuals with a smattering of backpacking experience are encouraged to apply. (Rated M). *Leader: Bill Porter. Price: $345; Dep: $50.* **[92214]**

Verde River, Prescott Forest, Arizona—October 26–30. Eagles and peregrine falcons will soar high above us as we hike the Verde River from Clarkdale to Perkinsville. A historic mine, Indian cliff dwellings, hundreds of waterfowl, mule deer, and javelina are just some of the sights we'll see. We return by Sycamore Creek. (Rated M) *Leader: Bob Cole. Price: $305; Dep: $50.* **[92215]**

Clear Creek Winter Solstice, Grand Canyon Park, Arizona—December 17–22. Usher in the winter holidays and escape last-minute shopping hassles by hiking into the Grand Canyon. We'll delight in sunshine-filled trails above beautiful Granite Gorge. Two layover days give us time to explore Clear Creek and Cheyava Falls. At our first and last camps we'll enjoy post-dinner libations at the Phantom Ranch dining room! (Rated S) *Leader: Bob Madsen. Price: $360; Dep: $50.* **[92216]**

New Year in the Superstitions, Tonto Forest, Arizona—December 28, 1992–January 2, 1993. Celebrate the new year in the Sonoran Desert amidst the craggy peaks of the Superstition Wilderness. Come and learn the folklore of the famous Lost Dutchman mine. We'll hike trails in the shadow of Weaver's Needle, with time for picture taking, exploring, and relaxing. Expect brisk to cold nights and sunny days. (Rated M) *Leader: Bob Cole. Price: $300; Dep: $50.* **[93420]**

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

Base Camp

HISTORICAL PHOTOGRAPH: CEDRIC WRIGHT (STANDING) PLAYING VIOLIN IN CAMPSITE AT COLBY MEADOWS, SIERRA, 1939 HIGH TRIP; RIGHT: ARROWLEAF-BALSAMROOT.

Base-camp trips offer access to the backcountry, plenty of free time, and excellent food—all without hiking into camp with a heavy backpack. ♦ How do we do it? Typically, our pack animals carry 25 pounds of gear per person and all group food and equipment to a leader-selected camp between two and 12 miles from the trailhead. You need carry only your camera, water, lunch, and raingear. ♦ After delivering the gear, the pack stock returns to civilization for a week while you enjoy, at your own pace, the peace and serenity of the wilderness. You assist with meal preparation but are otherwise free to dayhike or, on some trips, go with a leader on a short overnight backpack. ♦ Base-camp trips are ideal for families and for people who want time to explore the wilderness at a leisurely pace.

America's Tropical Paradise, Virgin Islands Park, Virgin Islands—March 1–7. Virgin Islands National Park comprises most of the island of St. John, where we'll stay in rustic beachfront cottages. On morning hikes we'll explore the island's rainforests and out-of-the-way places. In the afternoons we'll drive in our rental vehicles to beautiful white sand beaches to sunbathe, swim, and snorkel. Please note that meals are not included in the trip price. *Leader: Gary Skunro. Price: $665; Dep: $100.* **[92052]**

Anza-Borrego Desert Natural History, Anza-Borrego Park, California—March 7–14. The Anza-Borrego Desert comprises over one million acres in Southern California east of the coastal range. Uniquely juxtaposed terrain and landforms vary from 6,000-foot piney crags to fossilized badlands to a low inland sea supporting a rich variety of plants and animals. We'll be accompanied by a naturalist and enjoy easy to moderate hikes. *Leader: Carol Baker. Price: $235; Dep: $50.* **[92053]**

America's Tropical Paradise, Virgin Islands Park, Virgin Islands—March 22–28. See trip #92052 above. *Leader: Marjorie Richman. Price: $665; Dep: $100.* **[92055]**

East Mojave Scenic Area, California—April 20–26. The beauties of the California Desert are most splendid in spring—the ideal time to visit the region proposed as Mojave National Park. From our 5,600-foot camp, we'll take leisurely to moderate dayhikes to view 600-foot sand dunes, volcanic spires, and ancient cultural sites. *Leader: Rose M. Certini. Price: $410; Dep: $50.* **[92220]**

Oak Creek Canyon and Sedona Redrock Country, Arizona—April 26–May 2. This special six-day outing is designed for seniors and those who like easy-to-moderate dayhikes and comfortable lodging. Hiking on beautiful canyon floors and along creek banks, we'll see towering redrock formations, an ancient Indian cliff dwelling, and exquisite desert wildflowers. We'll also visit two national monuments to see more Indian cultural sites. *Leader: Joel Landis. Price: $395; Dep: $50.* **[92221]**

Bison, Coyotes, Eagles, and Sacred Places, Badlands Park, South Dakota —May 10–16. Serenaded by coyotes, the full moon will illuminate colorful spires, pinnacles, and saw-toothed ridges in the *mako sica* (badlands). Fossils of ancient camels, three-toed horses, and saber-toothed tigers are common. This is an ideal setting to learn about the history and culture of the Sioux people. Daily hikes provide observation of prairie dog towns and grasslands. *Leader: James Reidy. Price: $380; Dep: $50.* **[92056]**

Hiking Virginia's Rooftop, Mt. Rogers Recreation Area —May 17–23. Near where North Carolina, Tennessee, and Virginia meet, the Blue Ridge Mountains reach their highest crests. Staying at Beartree Campground, we'll use participants' vehicles to travel to nearby trailheads for daily hikes along the Appalachian Trail and its side trails, including an ascent of Mt. Rogers. Expect to find azaleas and laurels in bloom. *Leader: Ray Abercrombie. Price: $300; Dep: $50.* **[92057]**

Spring in Canada's Coast Mountain Wilderness, Tweedsmuir Park, British

Columbia—May 25–31. Daily excursions into the wilderness of British Columbia's largest park are followed by fine dining and relaxation before the fireplace in historic Tweedsmuir Lodge. While the mountains and glaciers above are shrouded in snow, we will search out pockets of new life in the valley below—bald eagle nests, showy orchids, old-growth forest—and visit Indian petroglyphs and the Bella Coola coastal fjord. *Leaders: Katie Haybourt and Dennis Kuch. Price: $1,345; Dep: $200.* **[92058]**

Wet Canyons of the Mogollon Rim, Coconino Forest, Arizona—May 31–June 6. These narrow slickrock canyons offer clear creeks, potholes, waterfalls, and verdant flora in a wilderness setting of seductive natural beauty. Our hikes near Camp Verde will be at an unhurried pace, and we will take leisurely swims through large pools where you can even fish. Outdoor writer Rob Schulthesis will accompany us to talk about the desert and his writing. *Leader: Joe Sinclair. Price: $570; Dep: $100.* **[92222]**

Sketching for an Urban Journal, Washington, D.C.—June 14–20. This walking and sketching tour of Washington, D.C., will provide us with material for our illustrated urban journals. We will travel on foot and by metro, stopping for quick studies of the city landscape in our nation's beautiful capital. Come explore ethnic restaurants, museums, galleries, monuments, and the waterfront. Housing will be at a university campus, and meals (not included in the trip price) in a variety of local restaurants. Minimum age is 21. *Leader: Sarah Stout. Price: $535; Dep: $100.* **[92224]**

Laurel Fork Wilderness, Monongahela Forest, West Virginia—June 14–21. Cabins bordering on a wilderness will serve as our base camp for day-hikes nearby and to Spruce Knob, Dolly Sods, Gaudineer Scenic Area, and Seneca Rocks. Good but little-used trails will take us through azalea and rhododendron in the heavily wooded ridges and deep valleys of the rugged highlands country. *Leader: Robert Jones. Price: $355; Dep: $50.* **[92225]**

Pecos Wilderness High Country, New Mexico—June 20–27. Vegetarian food is a special feature of our trip to New Mexico's high mountains, where the vast alpine meadows blaze with wildflowers. After a 12-mile, 2,300-foot climb to our luxurious camp at nearly 12,000 feet, we'll explore the snowy peaks, ridges, and glacial ponds of this magnificent wilderness. *Leaders: Dana Densmore and Bill Donahue. Price: $825; Dep: $100.* **[92226]**

CENTENNIAL TRIP

Yosemite Park, Sierra—June 20–28. For the "High Sierrys," members of the First Annual Outing in 1901, it was history in the making. For '92 Centennial Trip participants, it's history for the taking... a rare opportunity to hike and mingle with living legends of the Sierra Club and to camp amidst the scenic splendor that our pioneers worked so hard to preserve. Our outing will be staged in both Yosemite Valley and Tuolumne Meadows. Count on the good food and fellowship that are hallmarks of our Club. No hermits, please! *Leaders: Jerry South and Jim Watters. Price: $545; Dep: $100.* **[92227]**

Base Camp

SUSAN HELLER

Hidden Valley, Sierra Forest, Sierra—July 3–11. From our base at Muir Trail Ranch (7,665 feet), we will take dayhikes into the John Muir Wilderness and Kings Canyon National Park. Located in a remote valley reached by boat and four miles of trail, our log and tent cabins have the San Joaquin River at their doorsteps. The ranch has two hot springs and a log cabin for dining. Each day we will have a choice of hikes both easy and strenuous. *Leaders: Modesto Piazza and Diana Bunting. Price: $1,135; Dep: $200.* **[92229]**

Vandeburg Lake, Sierra Forest, Sierra—July 4–12. The western portion of the Ansel Adams Wilderness contains numerous lakes that can be visited from our camp at 8,650 feet. Swimming, peakbagging, fishing, leisurely to strenuous hiking, and relaxation will be our routine. Choose open forest or High Sierra rock for your day's activity—then return to camp for scrumptious cuisine. *Leader: Bob Maynard. Price: $540; Dep: $100.* **[92230]**

Great Basin Park, Nevada—July 19–25. This new park near the border of Utah and the town of Ely was formed in 1986. Staying in a park campground, we'll do one or more of the following: climb to the summit of Wheeler Peak (13,063 feet); take an easy overnight backpack; hike to Bristlecone Grove (site of the world's oldest tree); enjoy ranger-conducted walks; and visit Lehman Caves. *Leader: Serge Puchert. Price: $365; Dep: $50.* **[92232]**

Stehekin Valley, North Cascades, Washingon—July 19–25. The Enchanted Valley is reached by a 50-mile ferry ride up Lake Chelan, a 6,000-foot rift in the North Cascades. Staying at rustic cabins on the Courtney Ranch, we'll enjoy delicious homemade meals and take dayhikes—both easy and strenuous—to Cascade Pass, Rainbow Creek, and the Chelan Lakeshore Trail. This trip is suitable for families, couples, and singles of all ages. *Leader: Carolyn Castleman. Price: $825; Dep: $100.* **[92233]**

Cloud Peak Wilderness, Bighorn Forest, Wyoming—August 2–8. This seldom-visited wilderness offers 13,000-foot peaks, broad, timbered valleys, and abundant wildlife. From our base camp at Cloud Peak Lake, we will have access to several lakes and peaks for dayhikes. Moose, elk, bighorn sheep, and mountain goats can be observed, and the fishing for cutthroat trout is superb. *Leader: Richard Terra. Price: $585; Dep: $100.* **[92236]**

Stehekin Valley, North Cascades, Washington—August 16–22. See description for trip#92233 above. *Leaders: Marilyn and Bill Gifford. Price: $825; Dep: $100.* **[92237]**

White Mountain Forest, New Hampshire—August 30–September 6. Some of the best hiking and scenery in the Northeast is in the White Mountain National Forest, which includes Mt. Washington, magnificent rock formations, and open vistas above treeline. We will take moderate to strenuous dayhikes (6 to 14 miles, with elevation changes of up to 4,500 feet) in the Franconia, Pemigewasset, and Presidential regions. *Leader: Bob Goldberg. Price: $435; Dep: $50.* **[92238]**

Stehekin Valley High, North Cascades, Washington—September 6–12. After reaching the Stehekin Valley by a 50-mile ferry ride up Lake Chelan, we'll hike along rushing waters to stunning glacier and meadow views, enjoy epicurean meals at the Courtney Ranch, and fall asleep in our cabins to the sound of the wind in the trees. Later, we'll travel horseback to

MARK A. LARSON

HISTORICAL LEADER PROFILE

OLIVER KEHRLEIN

Oliver Kehrlein aspired to integrate conservation "into all of our activities," an ideal that is still central to the Outing Program's mission. In establishing base-camp trips in 1940, Kehrlein incorporated the study and appreciation of the flora, fauna, and geology of the Sierra into the trips' many activities. Originally conceived as a camp for "elder statesmen . . . a sit-down camp," base-camp trips immediately became an attraction for all—and were anything but "sit-down." On the first outing, 17 peaks were conquered in 11 days, including six first ascents. Kehrlein was renowned for his patience, skill, and general excellence as a leader. The Oliver Kehrlein Award is presented each year to an outing leader who has demonstrated these same attributes.

LEFT TOP: KELSO DUNES, MOJAVE DESERT; LEFT BOTTOM: ANZA-BORREGO STATE PARK, CALIFORNIA; RIGHT: CLAIR TAPPAAN LODGE, TAHOE FOREST, SIERRA.

GIVE THE GIFT OF WILDERNESS WITH A SIERRA CLUB OUTING GIFT CERTIFICATE. SEE PAGE 89 FOR DETAILS.

4,200 feet and tent for two nights, exploring a basin and 6,063-foot Park Creek Pass near Buckner Mountain (9,080 feet). *Leaders: Karen Davis and Joe Nangle. Price: $1,095; Dep: $200.* **[92239]**

North Cascades Ridge Walks, Stehekin Valley, Washington—September 13–19. Come explore the high mountain passes and ridges above remote Stehekin Valley in North Cascades National Park. We will spend our days hiking (8 to 16 miles a day and 2,000 to 6,000 feet in elevation gain) and then return to hot showers, delicious homemade food, and comfy beds. Highlights include wild berries and migrating hawks. *Leader: Alix Foster. Price: $825; Dep: $100.* **[92240]**

Photographing the High Country: A Fall Foliage Festival, Rio Grande Forest, Colorado—September 20–26. From our base camp at the South San Juan Field Station, we will take dayhikes ranging from the desert of the San Luis Valley to the alpine country of the South San Juan Mountains. The highlight of our trip will be the blazing forests of aspen blanketing mountain slopes and canyon walls. We'll stay in cabins and have use of a darkroom. *Leader: TBA. Price: $390; Dep: $50.* **[92241]**

Trails of Canyon de Chelly, Arizona—October 11–17. The Anasazi had nearly one hundred 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. *Leader: Bob Hartman. Price: $590; Dep: $100.* **[92242]**

Note: See Alaska, Family, Hawaii, and Water trips for other base-camp outings.

CLAIR TAPPAAN LODGE TRIPS

Clair Tappaan Lodge is the Sierra Club's rustic mountain lodge, located at the 7,000-foot level on a forested hillside two miles west of historic Donner Pass. It's a great jumping off place for members of any age to explore the hiking trails of the Lake Tahoe Basin, soak up the area's natural and social history, work at outdoor hobbies, or simply nap on the sundeck. Toss in sit-down meals and hot showers at day's end, and you've got a hard-to-beat outing. Although the lodge is accessible by car, it's light years away from 9-to-5 tribulations.

Donner Pass Nature Study Special, Tahoe Forest, Sierra—June 7–13. Come see spring arrive in the High Sierra. We'll visit several of the area's lakes to observe the flora and fauna, learn about the region's fascinating geology, and visit some historic sites. Join our naturalist on this special outdoor adventure. *Leader: Sy Gelman. Price: $370; Dep: $50.* **[92223]**

High Sierra Serenity: Six Hikes and 12 Steps, Tahoe Forest, Sierra—June 21–27. Hike, fish, and explore the natural and historical aspects of the Donner Pass area. Our rustic hideaway is perfect for fellowship and serenity. Provisions for optional "12 Step" program meetings will be a special addition to this unique outing. *Leaders: Barbara and Tim Poole. Price: $345; Dep: $50.* **[92228]**

Donner Pass Expressive Photography Workshop, Tahoe Forest, Sierra—July 12–18. Nature will be our laboratory as we meander along easy trails; enjoy meadows, lakes, and forests; and visit weathered buildings. In the company of an experienced photography teacher, we'll capture this landscape on film. Designed for photographers wishing to improve their skills, instruction will emphasize new techniques to stimulate creativity. Critiques and discussions are planned for the evenings. *Leader: Dolph Amster. Price: $350; Dep: $50.* **[92231]**

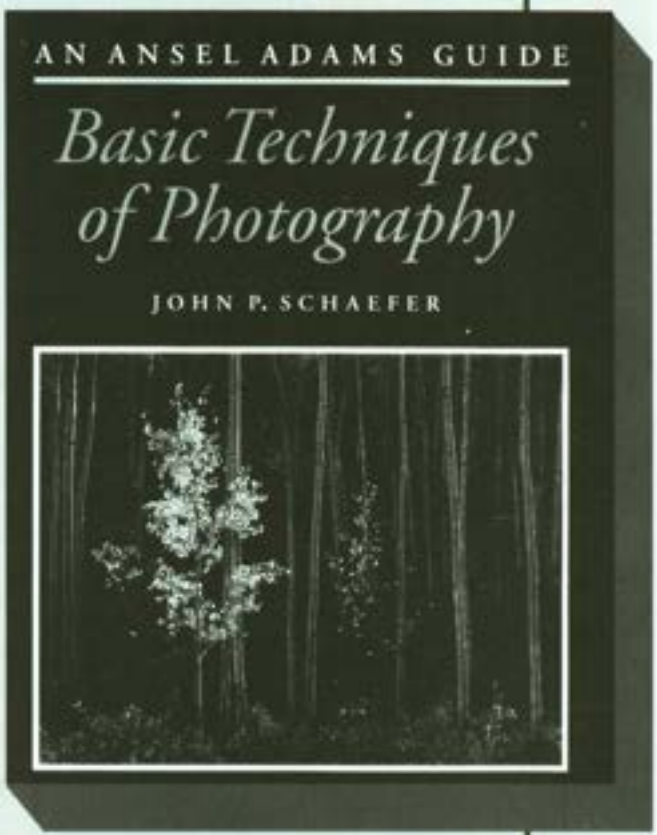
Hiking and History, Tahoe Forest, Sierra—July 26–August 1. If you like history in short and interesting doses, come learn how the pioneers conquered the imposing Sierra. Hike, fish, or loaf as you please. Nearby Castle Peak is 9,103 feet in elevation. This trip is suitable for anyone in good health who can hike up a fairly steep trail. *Leader: Ernie Jackson. Price: $330; Dep: $50* **[92234]**

Art, Hiking, and High Living, Tahoe Forest, Sierra—August 2–8. Great decisions: Hike the Pacific Crest Trail? Capture the landscape with the help of our art instructor? Stay with pencils or try pastels? Explore Emigrant Pass? Stroll after dinner or soak in the hot tub? Watch birds from the deck or swim in a lake? Frolic in a meadow or take a nap? Seconds on lasagna or homemade bread? No problem—do it all! *Leaders: Helen and Jim Maas; Instructor: Luz Marina Ruiz. Price: $370; Dep: $50.* **[92235]**

The Quintessential Photography Guide Based on the Techniques of Ansel Adams

Written expressly for the beginning photographer, this lavishly illustrated volume provides an introduction to Ansel Adams' theories and techniques. Author John Schaefer offers the master photographer's views on the artistic, practical, and technical aspects of photography and shows how to apply these in the field and in the darkroom. The book features:

- **easy-to-follow illustrated step-by-step instructions**
- **revealing excerpts from Adams' writings, letters and lectures**
- **320 black-and-white photographs and 94 technical drawings**
- **42 color photographs, including some of Adams' rarely seen color work**
- **for the first time, instructions on applying Adams' techniques to the 35mm camera**
- **and much more**



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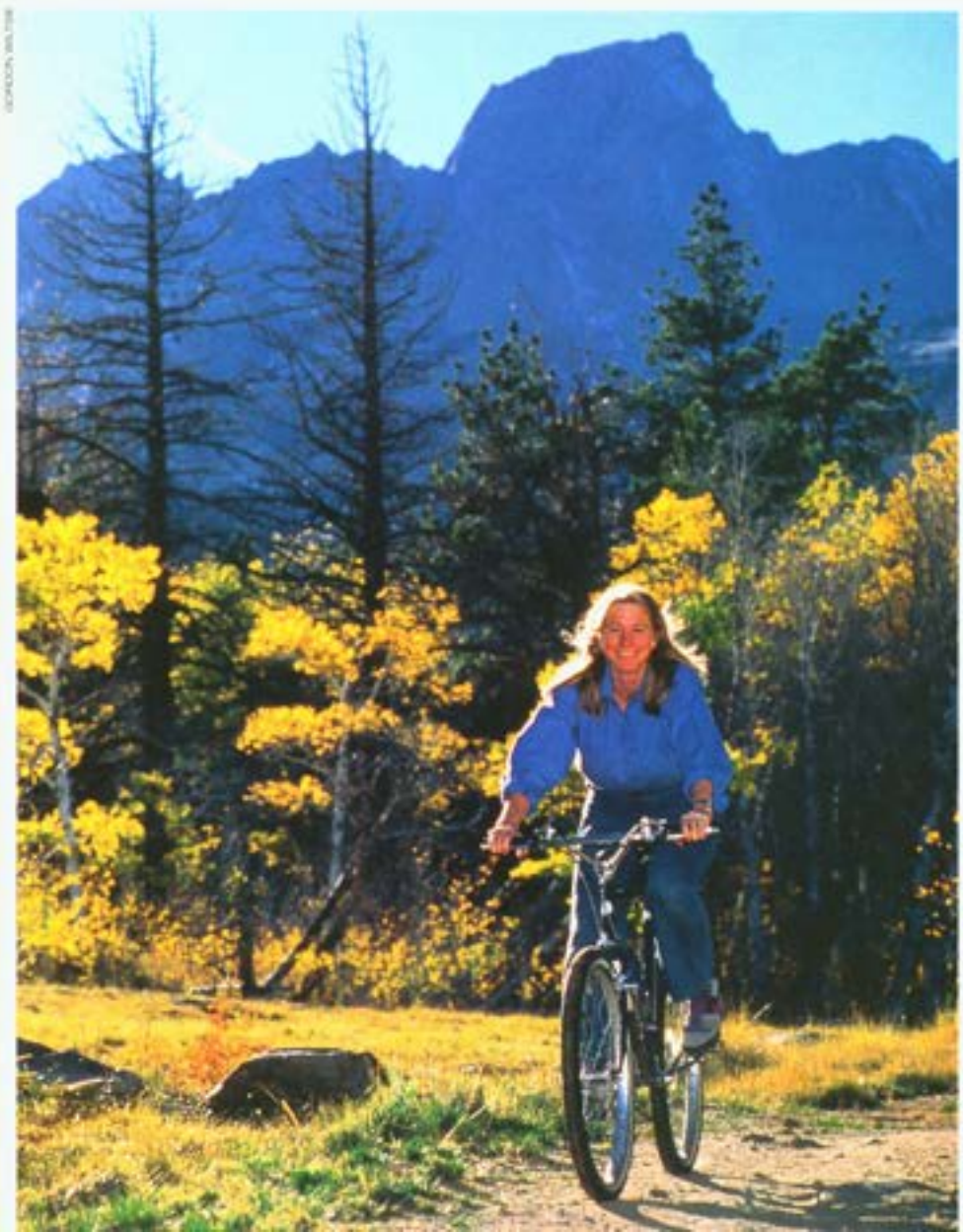
HISTORICAL PHOTOGRAPH: ON THE ROAD TO MIRROR LAKE, YOSEMITE NATIONAL PARK, SIERRA, 1900; BELOW: BICYCLING BELOW MT. HUMPHREYS, SIERRA.

Bicycle

Bicycling puts you closely in touch with your natural surroundings and covers much more country than hiking. Ample time is included for swimming, hiking, and sightseeing. ♦ Most of our trips use sag wagons so participants need carry only day gear on their bikes. ♦ Terrain and distance variations require different levels of skill and physical conditioning.



Touring Vermont—June 28–July 4. Starting by the shores of Lake Champlain, we will spend a leisurely six days bicycling the back roads of central and southern Vermont. We'll travel through rolling countryside dotted with farms and woodlands and through quiet New England villages. Moderate daily mileages should allow time for a swim, shopping, or simply relaxing. A sag wagon will transport gear, and we'll stay each night in quaint campgrounds. *Leader: Michael Barna. Price: $475; Dep: $50.* **[92248]**

Northern Oregon Coast—July 12–18. Averaging 42 miles a day, we'll cycle the scenic coastal highway from Astoria to Florence, exploring beaches, tidepools, dunes, and headlands; sampling local ice cream and cheese; and visiting historic sites. Each night we'll stop at a state campground with showers. A sag wagon will transport community and personal gear. Previous cycling and camping experience is required. *Leader: Peter Bengtson. Price: $495; Dep: $50.* **[92249]**

Cycling the Highlands, Cape Breton Island, Nova Scotia—July 18–25. The Cape Breton Highlands offers one of the most scenic and breathtaking routes in North America: The road curves, climbs, and dips around coastal headlands and cliffs and through quiet, wooded river valleys. Our 200-mile trip will be supported with a sag wagon, giving us plenty of time to hike and observe moose, bald eagles, and deer, or explore the Gaelic and Acadian cultures. *Leader: Wayne Sakarias. Price: $615; Dep: $100.* **[92250]**

Finger Lakes Tour, New York—July 26–August 2. From gorges and glens to waterfalls and wineries, we will explore the western Finger Lakes region. Daily trips of

SIERRA CLUB 1992 SUMMER ENVIRONMENTAL WORKSHOP

7th Annual Program for Educators
Sunday July 5–Sunday July 12, 1992

Clair Tappaan Lodge in the Sierra at Norden, California

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- Special electives to enjoy the environment
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This workshop is designed for environmental education professionals, teachers, and their families.

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Name_____

Address_____

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Choice of workshop_____

Do you wish teaching credits?_____

DEPOSIT (non-refundable) $50
$10 Late fee after May 1.

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

BELOW: DAY HIKERS EXPLORING IN THE GLEN CANYON NATIONAL RECREATION AREA, UTAH.

varying distances (45 miles average) include valleys and hills, and will end each night at scenic campgrounds by lakes and streams. Participants should enjoy communal responsibilities, be in good physical condition, and have reliable bicycles and equipment. We'll take turns driving the sag wagon. *Leaders: Maggie Seeger and Phil Titus. Price: $405; Dep: $50.* **[92251]**

Mountain Biking in New York's Adirondack Park—August 2–7. The 6-million-acre Adirondack State Park offers a perfect setting for "off-road" bicycling. Using an extensive network of old logging roads and snowmobile trails, we'll travel 15 to 25 miles a day with time for hiking and swimming. Accommodations include a remote log cabin, two inns, and lake and brookside campsites. A sag wagon will transport community gear. *Leader: John Borel. Price: $610; Dep: $100.* **[92252]**

Canadian Rockies, Alberta—August 9–15. The Icefields Parkway is one of the finest bicycling roads in the world. We'll cycle this wide-shouldered road from Banff, past a stunning backdrop of glaciated peaks, over Sunwapata Pass and the Columbia Icefield, and down into Jasper. A support van will carry our gear. Accommodations are in campgrounds. For experienced cyclists only. *Leader: Peter Benatton. Price: $590; Dep: $100.* **[92253]**

Exploring Acadia Park and Mt. Desert Island, Maine—August 9–15. Mt. Desert Island and Acadia National Park have everything a visitor expects from coastal New England. We'll cycle 20 to 35 miles a day past cobble beaches, tidepools, cliffs, and lighthouses, through spruce forest and fishing villages, and up to granite summits. And we won't neglect a couple hours lazing at Sand Beach as well as back at our campground, enjoying fresh seafood and blueberries we've picked ourselves. *Leaders: Craig Caldwell and Margaret O'Neil. Price: $445; Dep: $50.* **[92254]**

Lake Placid Circuit, Adirondack Park, New York—August 16–22. Come tour 6-million-acre Adirondack State Park. Circling the High Peaks region, our 35-mile-a-day average pace will give us time to swim in refreshing mountain lakes and shop in unique hamlets and villages. A layover day near Lake Placid allows time to sightsee in the Olympic Village or hike in the mountains. A sag wagon will transport all gear. Accommodations are in scenic campgrounds and comfortable inns. *Leader: Maurice R. Rivard. Price: $565; Dep: $100.* **[92255]**

San Juan Islands, Washington—September 6–12. Bicycling is a great way to explore the

PLEASE READ THE RESERVATION AND CANCELLATION POLICY ON PAGE 118 BEFORE SENDING IN YOUR APPLICATION.

roads, parks, and small towns of San Juan, Orcas, and Lopez islands. We'll enjoy the beautiful coastal scenery as well as cozy coffee shops and bakeries. A sag wagon will carry gear, and we'll travel by ferry from island to island. Participants must be capable of cycling 30 to 40 miles a day on hilly terrain. *Leader: Peter Bengtson. Price: $445; Dep: $50.* **[92256]**

Exploring Cape Cod and Martha's Vineyard, Massachusetts—September 13–19. Enjoy glorious cycling along kettle ponds and marshes, massive dunes, and the Atlantic Ocean. We'll visit historic villages with landmark architecture, observe bird migrations, and learn about the natural history of these fragile coastal areas. Trip highlights include a naturalist-guided, whale-watching expedition out of Provincetown. Bicycling about 30 miles a day, we'll carry our own gear except for tents and sleeping bags, which will go in a van. Accommodations are in campgrounds. *Leaders: Gretchen MacKenzie and Dick Gritman. Price: $505; Dep: $100.* **[92257]**

California Vintage: Napa Valley Wine Country—October 4–10. Bicycle California's premier wine country in Napa and Sonoma counties. We'll ride through acres of rolling vineyards, along rugged coastlines, and by majestic redwood groves, enjoying diverse microclimates and the lingering scent of eucalyptus and pine. Touring several wineries, we'll also take advantage of the area's spas and mudbaths, historical museums, and boutiques. Accommodations are in campgrounds. A sag wagon will carry our gear. *Leader: Peter Bengtson. Price: $495; Dep: $50.* **[92260]**

Note: See Alaska trips for another bicycle outing.

CENTENNIAL TRIPS

CYCLING JOHN MUIR'S 1000-MILE WALK TO THE GULF

Bicycling enthusiasts can commemorate the Centennial by retracing John Muir's 1,000-mile walk to the Gulf—from Louisville, Kentucky to Cedar Key, Florida. As Muir did 125 years ago, we'll rejoice in "splendid visions of pines and palms and tropic flowers."

This will be a Centennial celebration on the move. When possible, we will meet with local Sierra Club members for discussions, tours, and talks.

Each of the four segments of our tour is van supported. A rider need only carry snacks, a small repair kit, raingear, and camera. Daily distances vary but will average about 45 miles. Most nights we'll camp in state or county parks.

By taking all four trips, participants could cover John Muir's entire route. Join one or more segments for great fun, celebration, and camaraderie.

Kentucky Forests and Caves—September 20–26. Just as John Muir did in 1867, we'll start at the Ohio River in Louisville and trek southward—albeit by bicycle—to commemorate the first segment of Muir's 1,000-mile walk to the Gulf of Mexico. We'll spend a midweek layover day at Mammoth Cave National Park, then travel the "wildest, leafiest, and least-trodden way" we can find to our destination on the Cumberland River. Like Muir, we will observe vestiges of frontier culture and enjoy the region's natural history. *Leader: Alice Honeywell. Price: $360; Dep: $50.* **[92258]**

Crossing the Cumberland Mountains, Tennessee and Georgia—September 27–October 3. Starting at Jamestown, Tennessee, we'll bicycle rural roads to Gainesville, Georgia, enjoying a varied terrain with occasional steep climbs. On some days we'll cover more than 45 miles. The mountains will be in early stages of fall color, and like John Muir we'll "obtain fine views of wide, open country and distant flanking ridges and spurs." Come join this challenging and beautiful portion of his 1,000-mile route. *Leader: Mark Lidd. Price: $360; Dep: $50.* **[92259]**

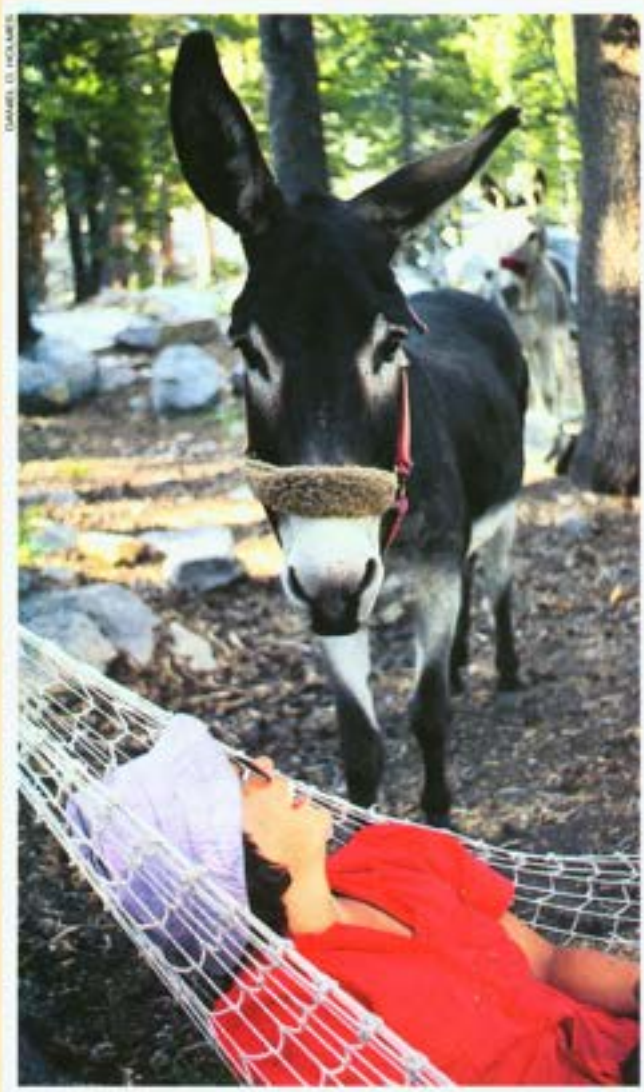
Through the River Country of Georgia—October 4–10. There is no better way to experience the Old South than on a bicycle tour. From Gainesville to Savannah, we'll see the natural world John Muir witnessed on his walk: rolling foothills and farmland, dense pine forests, and lush, swampy terrain. We may even tour some buildings that remain from Muir's time. And we'll follow a portion of Sherman's infamous "March to the Sea." Join your native Georgian leader to explore a region that retains much of the rural flavor Muir experienced. *Leader: Charles W. Hardy. Price: $360; Dep: $50.* **[92261]**

Florida's Swamps and Forests—October 11–17. On this final stretch of John Muir's famous walk, we'll traverse northern Florida from Fernandina Beach on the Atlantic to Cedar Key on the Gulf of Mexico. Highlights of our tour include historic St. Augustine, Ocala National Forest, and the legendary Suwannee River. This region is characterized by cypress trees draped in Spanish moss, crystal-clear lakes, and meandering rivers. Along the way we'll discuss how Florida's priceless natural heritage can be preserved. *Leader: Glenn Gillis. Price: $360; Dep: $50.* **[92262]**

Burro

HISTORICAL PHOTOGRAPH: FISHING ALONG THE KERN RIVER, SIERRA, ON THE 1908 HIGH TRIP TO THE KERN RIVER CANYON; BELOW: LEADER ROBIN SPENCER CONFERS WITH STAFF MEMBER.

The friendliest and gentlest of pack animals, burros are your companions on these wilderness outings. Suitable for novice camper or seasoned outdoorsperson of any age, a burro trip is truly a different type of outing. ♦ The burros are led by participants and carry most of the load. Everyone takes part in the trip activities, including burro care and wrangling, as well as cooking and dishwashing. ♦ Most routes are at high elevations (8,000 to 12,000 feet), and a typical day covers distances between five to ten miles. All trips should be considered moderately strenuous, and participants must be in good physical condition.



DANIEL D. HOLMES

The Mammoth Crest, Inyo and Sierra Forests, Sierra—July 25–August 1. Walk a portion of the John Muir Trail through the High Sierra with our affable burros. From Mammoth Lakes we parallel the Sierra Crest as we head south past several picturesque lakes. Crossing 11,800-foot McGee Pass, we'll swing east into the great Long Valley caldera. *Leader: Ted Bradfield. Price: $615; Dep: $100.* **[92266]**

Burros Invade Horse Heaven Family Trip, Inyo and Sierra Forests, Sierra—August 1–8. Children and adults will enjoy getting to know our friendly, furry burros on this trek at high altitude. We'll visit alpine lakes tucked beneath towering Red and White Mountain. On three layover days, fishing, dayhikes, loafing, and photography are the "E" ticket! This trip is appropriate for children seven years and older. *Leader: Sarojini Dayanemi. Price: adult $600, child $400; Dep: $100 per family.* **[92267]**

Over the Hump, Humphreys Basin, John Muir Wilderness, Sierra—August 9–16. Following an ancient Piute trading route to 11,400-foot Piute Pass, we'll get over the hump in a hurry to languish and hike in lake-studded, glaciated Humphreys Basin. Four Gales, Pilot Knob, and Mt. Humphreys beckon on layover days; then it's down and up forested canyons to Moon Lake. We hike back over the hump and out at 11,000-foot Pine Creek Pass. *Leader: Anneke Vonk. Price: $615; Dep: $100.* **[92268]**

"If It's Tuesday, This Must Be Lake Italy," Inyo and Sierra Forests, Sierra—August 16–23. Come to Italy for your summer vacation! We'll visit Honeymoon Lake, then ascend Italy Pass (12,400 feet) before dropping to Lake Italy (11,120 feet). Layover days can be spent hiking Granite Park, swimming or fishing at Teddy Bear and Brown Bear lakes, or climbing one of several 13,000-foot peaks. *Leaders: Robin Spencer and Dan Holmes. Price: $615; Dep: $100.* **[92269]**

The High Southeastern Sierra, Inyo and Sierra Forests, Sierra—August 23–30. Our trip enters the High Sierra near Bishop. We'll lead our burros from Pine Creek into French Canyon by crossing 11,000-foot Pine Creek Pass. En route we'll travel through glacier-carved canyons and meadows—almost like miniature Yosemite Valleys. We exit via 11,400-foot Piute Pass. *Leader: Rich Hamstra. Price: $615; Dep: $100.* **[92270]**

Family

HISTORICAL PHOTOGRAPH: DR. AND MRS. LEMON ON THE 1902 OUTING TO KINGS RIVER CANYON, SIERRA; BELOW: RESTING IN A HIGH SIERRA MEADOW.

Our goal is for families to enjoy the outdoors together. We introduce families to the joys of camping in a cooperative atmosphere, allowing children to experience the fun of outdoor living with others their age. Everyone shares camp chores, outdoor skills, and knowledge about the area's plants, animals, and ecology. In addition to two-parent families, we welcome single parents, grandparents, or aunts and uncles. ♦ The style of camping varies. On some trips pack animals transport food, dunnage, and equipment from roadhead to camp; on others we drive to our campsite and take daily hikes from there. Sometimes we stay in lodges. In all cases the surrounding wilderness offers opportunities for outdoor enjoyment: Nature study, hiking, swimming, and fishing are typical. Guidance is provided in camping techniques that lessen wilderness impact. ♦ Before you choose a trip, read the trip description and brochure carefully. There are different levels of difficulty and sometimes restrictions based on age or experience. General good health is necessary, and some physical conditioning is advisable.

Arches Adventure for Preschoolers, Arches Park, Utah—May 17–23. Short, easy hikes make this park ideal for families with budding hikers and parents with child-carry packs. Daily hikes allow us to explore The Windows, Fiery Furnace, Devils Garden, Park Avenue, and Delicate Arch. Other highlights include evening ranger presentations and a layover day to explore Arches on your own or to visit nearby Canyonlands National Park in the Sky District. *Leaders: Sharon McEwan and Ellen Andrew-Kasper. Price: adult $370, child $250; Dep: $100 per family.* **[92064]**

Three Forks Basin Backpack, South San Juan Wilderness, Colorado—July 12–18. High trailheads make this remote wilderness accessible to beginners; abundant wildflowers and varied geology make it fascinating for youngsters; and sparkling rivers and lakes provide outstanding trout fishing. Short backpacking distances and three layover days complement dayhikes to rugged peaks. Hikers of all abilities will enjoy this trip. *Leader: TBA. Price: adult: $225, child $150; Dep: $100 per family.* **[92274]**

Skyline to the Sea: Big Basin Park, Santa Cruz Mountains and Coast, California—July 13–19. Our base camp at Big Basin State Park provides us with opportunities to hike a variety of trails among the redwoods, observing wildlife and exploring the surrounding locale, including a quaint town where we'll ride a narrow-gauge train. The last two days will be spent on the coast at Pigeon Point Lighthouse, where we'll visit a mammal reserve. Appropriate for children six years and older. *Leader: Susanne George. Price: adult $295, child $195; Dep: $100 per family.* **[92275]**

Donner Pass Discovery, Tahoe Forest, Sierra—July 19–25. Historic Donner Pass near the California/Nevada border is an ideal location to explore the High Sierra. We'll be staying at the Sierra Club's rustic mountain lodge, which provides a relaxing atmosphere and easy access to hiking trails, lakes, streams, and historic sites. Our dayhikes will be easy to moderate, suitable for families with children five years and older. *Leaders: Jennifer and Ron Taddei. Price: adult $295, child $195; Dep: $100 per family.* **[92276]**

Finger Lakes Toddler Tromp, New York—July 19–25. Join us for a vacation in the Finger Lakes National Forest. From our base camp we'll hike along sculptured gorges, dip into waterfall pools, bike on country roads, enjoy winery and farm

Family

GORDON WILTSIE

BELOW: TESTING THE WATER AT BOWMAN LAKE, GLACIER NATIONAL PARK, MONTANA.

tours, and try to interpret the wild things our children find along the way. Although the pace will be leisurely, expect some climbing and two- to three-mile hikes. *Leaders: John Rogers and Maggie Seeger. Price: adult $325, child $215; Dep: $100 per family.* **[92277]**

Big Pine Lakes and Palisade Glacier, Inyo Forest, Sierra—July 25–August 1. Starting at Glacier Lodge (8,400 feet), the trail to our base camp (10,600 feet) affords beautiful views of what many consider the finest collection of alpine peaks in the Sierra. From our base camp, we'll take dayhikes to many nearby lakes where we can swim, fish, or simply enjoy the scenery. The new moon occurs midweek, affording star and satellite watchers a special opportunity to view the heavens. This trip is appropriate for children six years and older. *Leaders: Bliss and Allen Ream. Price: adult $420, child $285; Dep: $100 per family.* **[92278]**

Humphreys Basin, John Muir Wilderness, Sierra Forest, Sierra—July 25–August 1. Enjoy fishing, hiking, swimming, peakbagging, and just kicking back. Beginning our trip at North Lake, we'll climb eight miles over Piute Pass (11,400 feet) into Humphreys Basin, where we'll camp by Piute Creek (10,800 feet). Our daily excursions offer breathtaking views of Glacier Divide and Muriel Peak. This outing is suitable for families with children eight years and older. *Leaders: Donna Wells and Becky Lynch. Price: adult $475, child $325; Dep: $100 per family.* **[92279]**

Acadia Toddler Tromp, Mt. Desert Island and Acadia Park, Maine—August 2–8. Our base-camp trip is appropriate for families with toddlers to teenagers camping for the first time. Activities are planned for family participation and enjoyment. We'll explore tidepools, walk on the beach, swim, view wildlife, pick blueberries, and hike on Cadillac Mountain and trails suitable for children. Evening activities include stargazing, a marshmallow roast, and a Down East lobster dinner. Van transportation is included in the trip price. *Leader: Ginny Coombs. Price: adult $525, child $350; Dep: $100 per family.* **[92280]**

Stehekin Valley, North Cascades, Washington—August 2–8. If you enjoy rustic lodging and a variety of hiking trails, you'll love this trip! The Stehekin Valley at the northern end of Lake Chelan is quiet and secluded, with natural alpine beauty and an interesting history. You'll stay at a relaxing ranch that serves delicious family-style meals. Easy to strenuous dayhikes are suitable for children six years and older. *Leaders: Jennifer and Ron Taddei. Price: adult $545, child $365; Dep: $100 per family.* **[92281]**

Honeymoon Lake, John Muir Wilderness, Sierra—August 2–9. From Pine Creek we will hike six miles (with an elevation gain of 3,000 feet) to our base camp at Honeymoon Lake (10,900 feet). In a forest of lodgepole and whitebark pine, the lake is an ideal location for fishing, photography, exploration, hiking, relaxation, and general family enjoyment. Nearby trails offer access to alpine lakes full of trout. Suitable for children seven years and older. *Leaders: Beth and Bob Flores. Price: adult $535, child $355; Dep: $100 per family.* **[92282]**

Family Service Trip, Tahoe Forest, Sierra—August 9–15. The Club's own Clair Tappaan Lodge, near historic Donner Summit (7,700 feet), will provide rustic accommodations for our family service trip. Enjoy working together building nature trails and spending free days hiking, swimming, fishing, relaxing, or visiting nearby Lake Tahoe. *Leaders: Dennis Grzezinski and Timothy Stebler. Price: adult $205; child $140; Dep: $100 per family.* **[92283]**

Banner Peak and Mt. Ritter, Ansel Adams Wilderness, Sierra—August 22–29. Come climb Banner Peak (12,945 feet) or Mt. Ritter (13,157 feet). Our trip starts at 8,000-foot Agnew Meadows and climbs 2,000 feet in seven miles to Garnet Lake (10,000 feet) in the Thousand Island Lake area below Banner Peak and Mt. Ritter. The rigor of our daily ventures depends on the proclivities of trip participants: We may fish, hike, swim, or rest. Appropriate for children six years and older. *Leaders: Tom and Carol Baker. Price: adult $565, child $375; Dep: $100 per family.* **[92284]**

HISTORICAL LEADER PROFILE

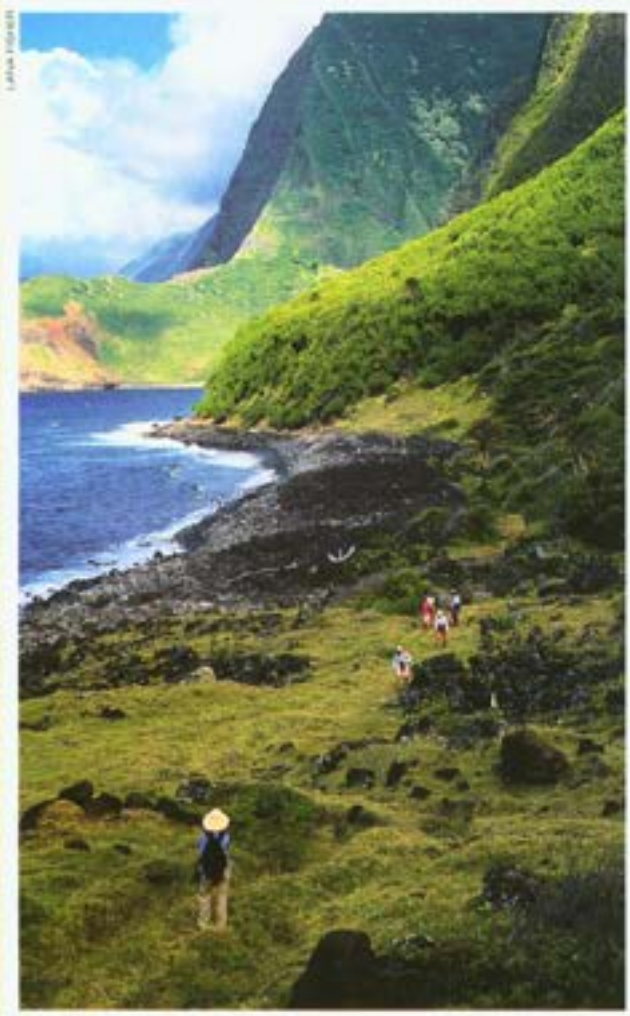
RICHARD LEONARD

During Richard Leonard's 15-year tenure as Outing Committee chair from 1937–1951, he saw the need to diversify the Outing Program to encourage smaller group size and create a more self-reliant wilderness experience for participants. As a result, he introduced rock climbing, as well as burro, base camp, knapsack, river, and wilderness threshold trips. Many of the Club members attracted to these trips—such as David Brower, Milton Hildebrand, Edgar Wayburn, and Oliver Kehrlein—became significant figures in the Club's history of environmental activism. Leonard himself joined the Board of Directors in 1938 and served on it for 35 years, including a term as president. He currently is an honorary president and is a familiar and well-loved figure at Outing Committee and Board meetings.

HISTORICAL PHOTOGRAPH: VERNAL FALLS, YOSEMITE NATIONAL PARK, SIERRA, 1900; BELOW: KALAUPAPA, MOLOKAI.

Hawaii

The Hawaiian archipelago offers a unique mid-Pacific setting for trips designed to let participants enjoy the natural splendor of the islands as few tourists do. Camp sites are usually in county, state, national, or private parks, often within sight and sound of the Pacific Ocean. ♦ On most trips, travel from camp to camp is by car. All outings include dayhikes, and although there are overnight hikes on some, none are mandatory. ♦ Whether you join a hiking trip or spend a day at the beach is up to you.



Kauai Family Adventure—April 11–18. Kauai offers the visitor magnificent scenery and many outdoor activities. We will sample the exciting and surprising contrasts the island has to offer: the beautiful Na Pali coast, rugged Waimea Canyon, mystic Alakai Swamp, lush Hanalei Valley, and picturesque beaches. Hiking, snorkeling, and sightseeing are just a few of the options available. We will stay in rustic lodging right on a beach. Children of all ages are welcome. *Leader: Wayne Martin. Price: adult $770, child $515; Dep: $100 per family.* **[92069]**

Whales and Waterfalls, Maui—April 11–24. Participate in a research project to monitor humpback whales. These animals make Hawaii their winter home, and they calve in the Lahaina Roads between Maui and Lanai, where we'll count and observe them from the shoreline. Other activities include hiking to hidden waterfalls, snorkeling, visits to botanical gardens, crater hikes within Haleakala National Park, and leisurely exploration of the island's magnificent shoreline. *Leader: Kent Erskine. Price: $1,740; Dep: $200.* **[92287]**

Building Ko'olaupoko Trail on Oahu—May 30–June 8. Wield a pick or pulaski and work shoulder to shoulder with local leaders and volunteers in the Hawaii Service Trip Program. We'll construct a brand-new trail along the base of the Pali in windward Oahu. Work days will be interspersed with exploring the island's secluded and lovely natural areas. Our base camp is located one block from gorgeous Waimanalo Beach, where we can relax and swim in the afternoons. *Leader: Annette Kaohelaulii. Price: $460; Dep: $50.* **[92288]**

Try Kauai: Kayak, Hike, and Snorkel—June 28–July 4. Enjoy an invigorating workout on a six-day exploration of Kauai's Na Pali Coast Wilderness. Using sit-on-top kayaks, we'll paddle the coastline's nooks, crannies, and caves. From our isolated beach camps, we'll hike up valleys among stone remnants of ancient Hawaiian culture to refreshing pools and waterfalls. In the afternoons we can snorkel in tropical water and observe the myriad of colorful life below, or relax on white sand beaches. This trip is suitable for physically fit, fun-loving people who like outdoor adventure. *Leaders: Carolyn and Joe Braun. Price: $1,135; Dep: $200.* **[92289]**

From the Mountain to the Sea, Haleakala Park, Maui—October 17–25. We'll explore an extraordinary variety of environments as we make our way from the top of the dormant volcano Haleakala (10,023 feet) to the coastline near Hana. After backpacking in Haleakala's moonlike crater for two days, we'll hike through a gap in the crater's rim down to the sea, where we will have time for swimming, sunbathing, snorkeling, and picture taking. Come and discover why "Maui is the best!" *Leader: Lou Wilkinson. Price: $1,250; Dep: $200.* **[92290]**

Highlight

HISTORICAL PHOTOGRAPH: ALONG TRAIL TO COYOTE PASS ON THE 1903 TRIP TO KERN RIVER CANYON, SIERRA; CLOCKWISE FROM RIGHT: BANNER PEAK, JOHN MUIR

Highlight trips are designed for participants who like to hike and cover a lot of territory without a full pack. ♦ On moving days pack animals carry 25 pounds per person plus all food and equipment from camp to camp. Participants are free to hike to the next camp at their own pace, enjoying unencumbered opportunities to fish, climb, or hike to isolated viewpoints. ♦ On some trips travel from camp to camp is by van, enabling participants to visit a wider range of environments. ♦ Families with children nine or older are welcome. Routes and mileages are within the ability of anyone who has done a reasonable amount of conditioning and acclimatization prior to the trip.

Historic Landmarks in the Old South, Louisiana and Mississippi—March 15–21. Lovers of history can step into the past on this bed-and-breakfast tour of plantations and gardens. Your Southern experience begins in the French Quarter of New Orleans, takes you across Louisiana to Natchez, Mississippi, and north to the Civil War battleground of Vicksburg. Accommodations include an antebellum mansion styled in the romantic tradition of the Deep South. *Leader: Bill Carroll. Price: $900; Dep: $100.* **[92054]**

Lake Michigan Shoreline, Sleeping Bear Dunes Lakeshore, Michigan—June 14–20. We'll begin our adventure on the mainland, then take a ferry midweek to South Manitou Island, exploring both the dunes and the island at a casual pace, with ample time to enjoy and photograph the flora, lake vistas, and homesteads abandoned early in the century. *Leader: Jack Thompson. Price: $390; Dep: $50.* **[92295]**

Teton Splendor I, Jedediah Smith Wilderness, Targhee Forest, Wyoming—July 22–30. Along the boundary of Grand Teton National Park, we'll hike through flower-filled meadows, visit high alpine lakes, and enjoy vistas of the rugged Grand Tetons. Four layover days are scheduled, giving us plenty of time to observe the abundant wildlife, fish, identify wildflowers, practice our photographic skills, or relax. *Leader: Constance Lederer. Price: $995; Dep: $100.* **[92296]**

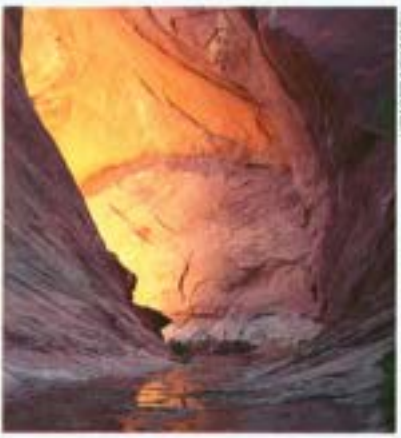
Teton Splendor II, Jedediah Smith Wilderness, Targhee Forest, Wyoming—August 1–9. See the description for trip #92296 above. *Leaders: Joanie and Mike Hoffmann. Price: $995; Dep: $100.* **[92297]**

Sequoia Peakbag Odyssey, Sequoia Park, Sierra—August 1–9. Enjoy an adventurous trek over the Great Western Divide on this scenic foray into mountains made for experienced peak enthusiasts. Entering the high country via Mineral King, we will traverse Big Arroyo and Nine Lake Basin, leaving plenty of time to explore and bag some peaks on this moderately strenuous 45-mile loop. *Leader: Terry Flood. Price: $830; Dep: $100.* **[92298]**

King's Peak Circuit, Ashley Forest, Utah—August 9–18. A loop of King's Peak will take us around cirque basins awash with lakes, past rock glaciers, over two passes choked with flowers, and through forests that are home to deer, elk, and the world's southernmost moose herd. Trail elevations will vary between 7,800 and 12,300 feet. Anyone in good physical condition is welcome. *Leader: Jerry Clegg. Price: $1,030; Dep: $200.* **[92299]**

Harriet Lake Basin, Ansel Adams Wilderness and Yosemite Park, Sierra—August 17–26. Our loop through this beautiful wilderness includes two passes, Post Peak (10,700 feet) and Isberg (10,560 feet). Highlights include Harriet

TRAIL, SIERRA (REPRINTED FROM THE 1992 SIERRA CLUB TRAIL CALENDAR); RAINBOW FALLS, SIERRA; RED-LEGGED LOCUST ON ASTERS; MOEPITZ CANYON, UTAH.



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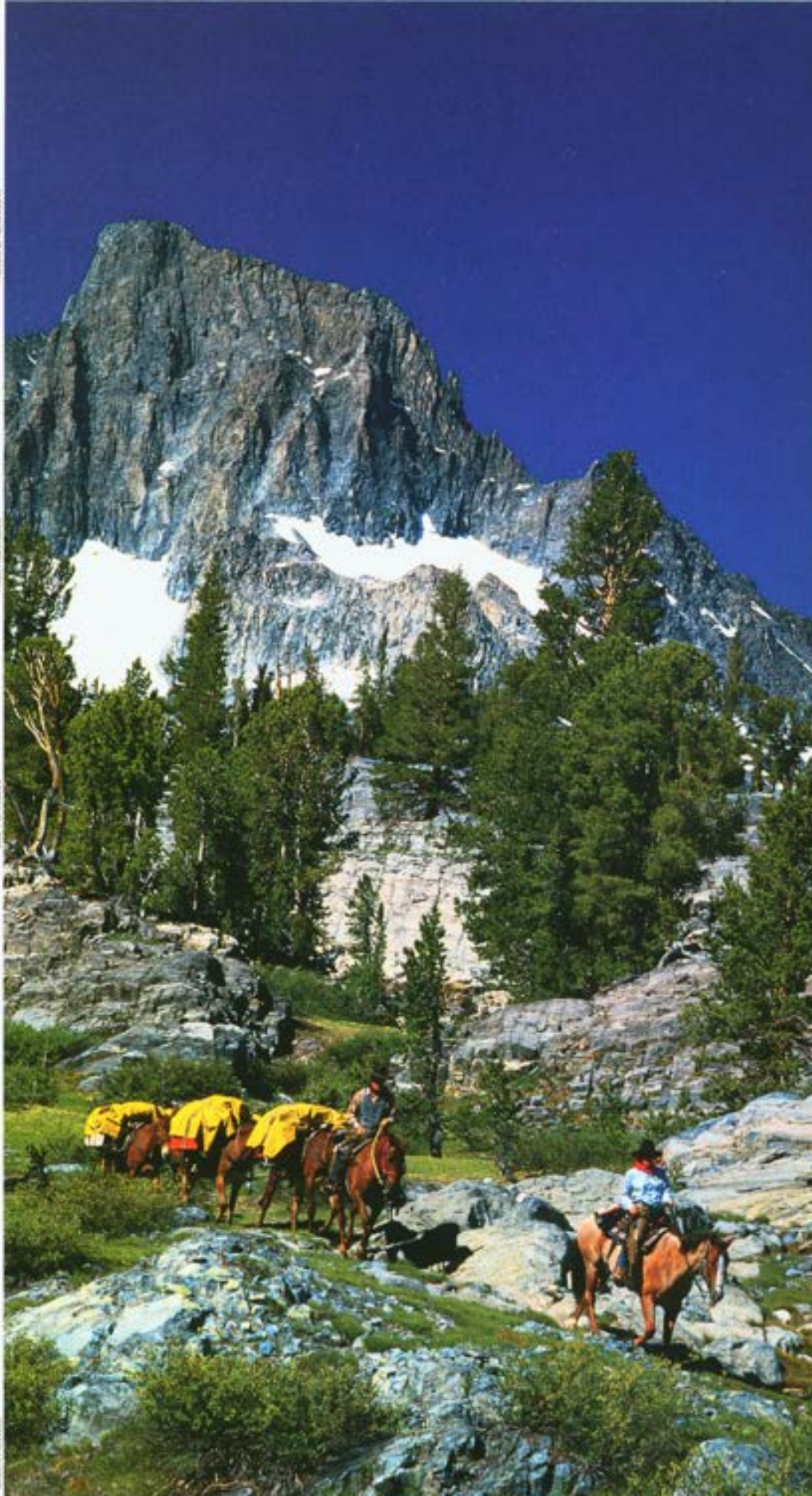
PAUL PEDERSEN

JOE TURNBAUGH



GALEN ROWELL

Highlight

Lake on the southern border of Yosemite and wonderful panoramas of Mt. Ritter and the Minarets. Five moderate hiking days and four layovers provide ample time to take pictures, climb peaks, explore, fish, swim, or relax. *Leader: Bert E. Gibbs. Price: $1,085; Dep: $200.* **[92300]**

CENTENNIAL TRIP

John Muir's 1,000-Mile Walk Revisited: From Kentucky to Georgia—May 11–23. Our van trip following John Muir's route from Louisville, Kentucky, to Savannah, Georgia, includes Mammoth Caves, the Great Smoky Mountains, and several state parks where we'll camp. Highlights include a barbecue at Calloway Plantation in Georgia and a boat trip on the intercoastal waterway at trip's end. We'll also visit the cemetery near Savannah where John Muir camped for two weeks during his 1867 journey. *Leaders: Stewart Kimball and John Ricker. Price: $1,115; Dep: $200.* **[92294]**

Evolution Valley Natural History, Kings Canyon Park and John Muir Wilderness, Sierra—August 23–30. Our route runs from South Lake to North Lake via the John Muir Trail and Piute and Bishop passes. With layovers almost every other day, we'll have plenty of time to study High Sierra ecology and geology, take lessons in astronomy, enjoy the wildflowers, climb some peaks, and lounge by the lakes. Come see the High Sierra at its best. *Leader: Alan Stahler. Price: $1,360; Dep: $200.* **[92301]**

Wet Canyons of Southeast Utah: Van and Hiking Tour —August 30–September 5. The beauty of southeast Utah's wilderness canyons will dazzle even the most experienced traveler. Dayhiking and swimming in narrow and intriguing Escalante River canyons, we'll enjoy creeks, potholes, and waterfalls—all cool enough to relieve the summer heat. Our trip climaxes with a hike in the San Rafael Swell. *Leader: Joe Sinclair. Price: $785; Dep: $100.* **[92302]**

CONSERVATION CHALLENGE

YELLOWSTONE AND GLACIER ECOSYSTEMS THREATENED

The northern Rockies contain two of the largest intact temperate ecosystems left in the world, Yellowstone and Glacier. These two World Biosphere Reserves shelter the largest populations of elk, deer, moose, bison, bighorn sheep, and grizzly bear in the contiguous 48 states.

Recently, attempts to develop these areas in search of oil and gas have intensified. In Glacier country, the Forest Service has given oil companies permission to drill in the Badger Two-Medicine area. The companies want to cut 17 miles of roads into the region and drill 22 wells.

Similarly, Brooks Lake in the heart of the Yellowstone ecosystem is being leased for oil and gas even though biologists say such development cannot occur without harming the grizzly bear population.

What you can do: The best way to protect the Badger Two-Medicine area is to designate it as a component of the National Wilderness Preservation System. For information on how to get involved in this campaign and what you can do to help protect Brooks Lake, write: Sierra Club, Northern Plains Office, 23 N. Scott, Rm. 25, Sheridan, WY 82801.

Consider going on a trip to Yellowstone or Glacier national parks. For a listing of these trips see page 115 in the Geographic Index.

PAUL NUDNICK

Black Elk Odyssey, Black Hills Forest, South Dakota —September 13–19. Hike to Black Elk's "Center of the Universe" (Harney Peak) and gaze down on Mt. Rushmore, the Grizzly Bear Valley, Sylvan Lake, and the Cathedral Spires of the Needles in the sacred *Paha Sapa* (Black Hills). The unforgettable fall colors of aspen and birch mixed with lush pine forests provide relaxing, scenic campsites. Dance around our evening campfires . . . "Two Socks" lives! *Leader: Faye Sitzman. Price: $385; Dep: $50.* **[92303]**

Hostel Hopping for Artists and Amblers Along California's Central Coast—October 11–17. Explore picture-perfect Indian summer landscapes and lighthouses in a serene coastal setting. Daily options include leisurely or moderate hikes and a cornucopia of visual delights to inspire the artist's eye. We will stay at three hostels along the way and share preparation of delicious, healthy low-fat feasts. *Leader: Barbara Poole. Price: $395; Dep: $50.* **[92304]**

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

JOHN HAUSER/ALPINE IMAGES

CLOCKWISE FROM TOP RIGHT: AN EVENING'S ENTERTAINMENT IN THE FLAT TOPS WILDERNESS, COLORADO; DRUID'S ARCH, CANYONLANDS NATIONAL PARK, UTAH; CECROPIA MOTH.

SIERRA CLUB BOOKS

Our 1992 Outings Catalog features selected photographs from recent Sierra Club publications, including *Amazonia* by Loren McIntyre and *Reef* by Jeremy Stafford-Deitsch. Sierra Club books cover a wide range of subjects—from the stories of John Muir to current environmental topics, plus hiking and natural history guides. To order the books featured in this catalog as well as a free Sierra Club Books catalog, please call or send in this form. (Be sure to mention this ad for a 10% discount.)

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International

HISTORICAL PHOTOGRAPH: VIEW FROM UNNAMED PEAK WEST OF CATHEDRAL PEAK IN YOSEMITE NATIONAL PARK, SIERRA, TAKEN ON THE FOURTH ANNUAL OUTING IN 1904.

On an international outing, participants enjoy wilderness adventure travel in some of the most exotic locations on Earth. An international trip is also a culturally rewarding experience: Participants meet local people, enjoy their cuisine, and learn to appreciate their customs and traditions. ♦ International trips can be physically demanding or quite leisurely. On some trips participants camp in remote areas; on others their accommodations are guesthouses or comfortable and quality-conscious hotels. Be sure to read the trip description and brochure to determine which outing is for you. ♦ Unlike ordinary tour agencies, the Sierra Club seeks to promote an understanding of environmental issues on all its outings. On international trips participants often learn about their host country's conservation problems by meeting local environmentalists. Trips are led by experienced and competent leaders who are sensitive to the needs of trip participants as well as to those of the host culture and natural environment. ♦ Please note that international trips are tier-priced; for an explanation of tier-pricing, see page 119. Trip prices do not include airfare.

AFRICA

Kenya Coast and Wildlife Safari: From Lamu to the Maasai Mara—February 7–20. This multifaceted trip offers much more variety than the usual safari. We will explore the attractions of Nairobi, Mombasa, and ancient Islamic Lamu, which has retained its historical character. Our experiences will include gameviewing and birdwatching at Tsava, Shimba Hills, and Maasai Mara; snorkeling and dhow sailing on the Indian Ocean; and taking the overnight train from Mombasa to Nairobi. *Leader: Ruth Dyche. Price: $3,605 (10–12) / $3,840 (9 or fewer); Dep: $200.* **[92548]**

Madagascar Revisited—April 16–May 3. Often referred to as "The Mysterious Island at the End of the Earth," Madagascar is a land of stark contrasts: rainforests, thorny deserts, pristine beaches, magnificent barrier reefs, and lush, grassy plains. Traveling by plane, train, bus, and outrigger canoe, we will visit the habitat of the endangered lemurs, distant relatives to monkeys, apes, and humans. We will also encounter rare birds, bats with three-foot wingspans, and beautiful orchids found nowhere else on Earth. We'll stay in first-class hotels as well as backcountry accommodations. Come prepared for it all! *Leader: Patrick Colgan. Price: $3,785 (12–15) / $4,060 (11 or fewer); Dep: $200.* **[92590]**

Portrait of Kenya: A Leisurely Photo Safari—June 22–July 4. Kenya's abundant and diverse wildlife, hospitable people, and dramatic scenery provide an idyllic setting for our African safari. Photo opportunities are limitless as we travel from Nairobi for a unique exploration of the premier game preserves of Samburu, Nakuru, Maasai Mara, and Mt. Kenya National Park. Accommodations will be in field camps or lodges. Prior photographic experience is not necessary, and no strenuous hiking is planned. *Leader: Carolyn Castleman. Price: $3,280 (12–15) / $3,485 (11 or fewer); Dep: $200.* **[92625]**

Aardvarks to Zebras: A Safari to Kenya's Game Parks and Preserves—July 25–August 9. Extraordinary wildlife in dramatic settings will be the focus of our trip to Kenya, where we will also enjoy meeting hospitable people. Starting our safari in Nairobi, we will take in many prime game preserves, including Maasai Mara, Lake Nakuru, Maralal, Lake Turkana, and Samburu. Native tribe members and a naturalist will help us learn about Kenya's fauna, flora, history, and culture. Accommodations will be in comfortable campgrounds, and no strenuous hiking is anticipated. *Leader: J. Victor Monke. Price: $3,525 (12–15) / $3,800 (11 or fewer); Dep: $200.* **[92640]**

ASIA

A Journey to Thailand: Temples, Hills, and Beaches—February 11–27. Thailand is an enchanting Buddhist kingdom with an abundance of attractions: palaces, temples, archaeological wonders, markets, mountains, beaches, and tribal cultures. After experiencing the palaces and temples of

RIGHT: REDMOUTH GROUPER AND GLASS FISH IN THE RED SEA (REPRINTED FROM *REEF* BY JEREMY STAFFORD-DEITSCH; TO ORDER, USE FORM ON PAGE 89).

Bangkok, we'll head north to Chiang Mai to trek among the hill tribes and stay in villages. We'll conclude our trip in the south, where we'll swim and hike on the islands of Phuket and Phi Phi. *Leader: Wayne Martin. Price: $2,230 (9–11)/$2,490 (8 or fewer); Dep: $200.* **[92550]**

Annapurna Chitwan Trek, Nepal—March 2–20. Spring comes early to Nepal, and Nepal's national flower, the rhododendron, will be in full bloom during our moderate trek along the southern slopes of the Annapurna Himal. We'll enjoy close-up views of some of the most extraordinary mountains on Earth. After the trek, we will visit Royal Chitwan National Park for three days of elephant safaris and jungle walks. Time has been scheduled to explore the wonders of the Kathmandu Valley. *Leader: Peter Owens. Price: $1,770 (12–15)/$1,985 (11 or fewer); Dep: $200.* **[92570]**

Japanese Alps and Country Inns—April 6–18. Head west to the "Land of the Rising Sun," where the cherry blossoms should be in full bloom and the alps still snowcapped. We will travel from Tokyo via train and bus to Nikko, Mt. Fuji, and across the alps to Takayama and Kanazawa on the Sea of Japan. Picturesque Kyoto will be our final stop before we bid *sayonara*. We'll stay at inns, a hot springs resort, and a 650-

International

year-old temple. *Leader: Carolyn Castleman. Price: $3,420 (12–15)/$3,625 (11 or fewer); Dep: $200.* **[92580]**

Manaslu Circle Trek, Nepal—May 9–June 5. From the dramatic and precipitous gorge of the Buri Gandaki River to the snows of 17,000-foot Larya La Pass, our trail travels through some of the most spectacular terrain in the Himalaya. Beginning in Gorkha and ending in Pokhara, we will circumambulate the great Manaslu massif, crowned by its beautiful 26,510-foot namesake. Our 25-day trek passes very close to the Tibetan border and through Buddhist villages rarely seen by Westerners. *Leaders: Cheryl Parkins and Peter Owens. Price: $2,380 (12–15)/$2,635 (11 or fewer); Dep: $200.* **[92600]**

Batura Glacier and Nanga Parbat Treks, Pakistan—July 12–August 6. Our trip to the northwest frontier of Pakistan will include two eight-day treks. The first explores the 30-mile-long Batura Glacier in upper Hunza, which offers unforgettable views of the 25,000-foot Batura peaks. The second trek starts in the Astore Valley beneath the sheer face of 26,600-foot Nanga Parbat, the world's ninth-highest peak. Between our two treks we will visit remote Hunza Valley, a real "Shangri-La" renowned for its long-lived inhabitants. Rakaposhi, at 25,500 feet, rises majestically above the valley's many apricot orchards. *Leaders: David Horsley and Peter Owens. Price: $2,755 (12–15) / $3,025 (11 or fewer); Dep: $200.* **[92635]**

Southern Dolpo: Pokhara to Jumla, Nepal—October 5–November 7. At the edge of the Tibetan Plateau in the Himalayan rain shadow lies beautiful Dolpo—the legendary "Hidden Land" closed to trekkers for years. Our journey into this wild and crystalline landscape begins as we head west from Pokhara. Crossing the Dhaulagiri range at Jang La (14,800 feet), we gain access to a world of rugged people and remote monasteries—including Ringmo *gumba* on the shores of unearthly Phoksumdo Lake. Our highest elevation will be 16,890 feet at Kagmara Pass. *Leader: Cheryl Parkins. Price: $2,855 (12–15) / $3,130 (11 or fewer); Dep: $200.* **[92665]**

WAYNE H. WOODRUFF

Annapurna Sanctuary and Royal Chitwan Park Jungle Safari, Nepal—November 11–December 3. Beginning our trip in the magical city of Kathmandu, we'll explore its fascinating temples and bazaars. Our moderate trek then takes us into the wondrous Annapurna Sanctuary, where we'll be surrounded by 26,000-foot peaks. Our highest camp is at 13,000 feet when we hike to the Machhapuchhare and Annapurna base camps. The adventure concludes with a visit to Royal Chitwan National Park, where we'll enjoy elephant rides in search of rhinos and tigers. *Leader: Laurie-Ann Barbour. Price: $2,170 (12–15) / $2,420 (11 or fewer); Dep: $200.* **[92675]**

Lamjung Holiday Trek, Nepal—December 19, 1992–January 1, 1993. Come spend

CONSERVATION CHALLENGE

JAPAN: A LAND OF CONTRASTS

Japan is the most energy-efficient nation on earth, twice as efficient as the United States. In fact, Japanese development of more fuel-efficient automobiles has shocked Detroit manufacturers who said such technology wasn't achievable. A burgeoning superpower as well, Japan is increasingly funding many ecologically disastrous development projects in Third World countries.

For example, Japan imports 13 million cubic meters of tropical woods each year, primarily for construction moldings and furniture, plywoods, paper, and other consumer items. Japan imports 50 per cent of the tropical woods the state of Sarawak in Malaysia produces annually for export. The Sarawak rainforests are the beleaguered homeland of some of the last hunters and gatherers in Asia, the Penan. Unless logging stops immediately, the Penan's traditional forest home will be decimated in six months. After being denied legal Native Customary Land Rights, the Penan have turned to nonviolent blockades and have proposed a United Nations Biosphere Reserve to protect their forest habitat in perpetuity.

What you can do: Write the Japanese ambassador to the United States, the Honorable Ryohei Murata, and tell him that as a consumer of Japanese products and a potential tourist, you are shocked to learn of Japan's devastating logging practices in Malaysia. Ask that Japan's commendably efficient use of energy be matched by drastic reduction in the use of rainforest woods, and that wood and paper products be recycled. His address: 2520 Massachusetts Ave., NW, Washington, DC 20008.

Also consider going on trip #92580 to Japan (see page 91).

BELOW: NEPALESE YOUTH WITH THE MAJESTIC HIMALAYA IN THE BACKGROUND; BELOW RIGHT: BUDDHIST MONK, THAILAND.

INTERNATIONAL TRIP PRICES DO NOT INCLUDE AIRFARE.

the holiday season on this moderate 11-day trek through the charming Gurung villages located on the eastern slopes of the Annapurna range. Our route in this seldom-visited region takes us very close to Annapurna IV, Annapurna II, and Lamjung peaks. This trip emphasizes interaction with local people and our Nepalese staff. Many of our evenings will offer opportunities to join in local singing and dancing. Maximum elevation will not exceed 13,000 feet. Celebrate New Year's Eve in Pokhara! *Leader: Peter Owens. Price: $1,490 (12–15) / $1,680 (11 or fewer); Dep: $200.* **[93700]**

Gorkha Chitwan Trek, Nepal —February 22–March 12, 1993. Starting in historic Gorkha, our route will take us through Gurung, Tamang, and Brahmin-Chhetri villages and up rhododendron-covered slopes in full bloom. We will come close to the peaks of the Manaslu Himal in an area where Westerners seldom go. Our return is via the Tamang village of Serandanda, famous for its Buddhist *gomba*. After the trek we will visit Royal Chitwan National Park for three days of elephant safaris. *Leader: Peter Owens. Price: $1,860 (12–15) / $2,085 (11 or fewer) Dep: $200.* **[93720]**

EUROPE

England's Coast to Coast Walk: From the Irish Sea to the North Sea —May 31–June 13. 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—pastoral England at its finest! 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: $2,540 (11–14) / $2,840 (10 or fewer); Dep: $200.* **[92610]**

Adventure in Iceland: Hiking the Lava, Caves, and Moorland—June 24–July 8. Come to Iceland, country of volcanic fire, remote fjords, and glacial ice! Proceeding by minibus and on foot, we'll visit Skaftasell and Thingvellir national parks, enjoy a six-day backpack, and take an excursion to view seal colonies and nesting seabirds on the island's southernmost tip. Iceland's geological history comes to life when we backpack in remote moorland to an ancient lava flow called Hallmundarhraun. On a layover day we'll climb the crater from which the ancient flow originated. Lodging is in mountain huts and country inns. *Leader: Ellie Strodach. Price: $2,970 (9–11) / $3,180 (8 or fewer); Dep: $200.* **[92630]**

Trolls and Fjords of Norway —August 17–27. Our adventure begins with an eight-day hiking trip through the "Home of the Trolls"—the mountainous Trollheimen region in west-central Norway. Daypacks can be light because well-staffed mountain huts will supply comfortable beds and hearty Norsk food. We'll end our hike with a visit to the jewel-like valley of Innerdalen, then travel by bus and boat through fjord country, where towering peaks plunge to narrow waters. Hikers in moderately good condition are welcome. *Leader: Kathie Brock. Price: $2,070 (12–15) / $2,340 (11 or fewer); Dep: $200* **[92645]**

Mountains of Contrast: The Diverse Dolomites, Italy—August 31–September 13. 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 *refugios* and quiet moments to sketch a favorite view or sip a cappuccino complete this special mountain journey. *Leader: Wayne Martin. Price: $2,670 (12–15) / $2,875 (11 or fewer); Dep: $200.* **[92655]**

HISTORICAL LEADER PROFILE

STEWART KIMBALL

During his tenure as chair of the Outing Committee from 1951 to 1972, Stewart Kimball introduced many innovations in the Outing Program and the structure of the committee. He established subcommittees to oversee Sierra trips and regional subcommittees to expand the program throughout the nation. He ran a series of outings that were directly tied to conservation issues, such as the proposed dam in Dinosaur National Monument. And in 1958 he introduced the Highlight trip as an alternative to the overly subscribed High Trip. In the spring of 1962, Kimball led the first trip to Hawaii, a trip that emphasized our cultural as well as environmental heritages. It led the way to the first international trip—to South America in 1964. To a great extent, Stewart Kimball is responsible for the current structure of the Outing Program and was a major figure in creating what is now known as "adventure travel."

CENTENNIAL TRIP

John Muir's Scotland—May 10–23. Enjoy two marvelous weeks exploring the Scottish Highlands, beginning at John Muir's birthplace, Dunbar, on Scotland's rolling east coast. We will travel west to the John Muir Trust's preserve on the rugged west coast's Knoydart Peninsula, where we will be treated to splendid views. Accompanied by the Trust's delightful director and naturalist, Dr. Terry Isles, we'll visit Skye and other Inner Hebrides isles by launch. Our accommodations will be in charming small hotels, transport will be by minibus, and hikes will be varied and moderate. A special feature is an optional, strenuous hike up Ben Nevis (4,406 feet), Scotland's highest peak. Be bagpiped to dinner, sing and dance in a *ceilidh*, and retrace John Muir's faded footsteps across the East Lothian dunes! *Leaders: John and Jane Edgington. Price: $3,470 (12–15) / $3,745 (11 or fewer); Dep: $200.* **[92605]**

LEFT: SKIING IN AUSTRIA; RIGHT: TUCURUI FOREST, BRAZIL (REPRINTED FROM *AMAZONIA* BY LOREN McINTYRE; TO ORDER, USE FORM ON PAGE 89).

Romania's Fall Colors—September 6–18. Romania's variety of fall colors is rivaled only by its kaleidoscope of cultures: Roman, Turkish, and Hungarian. We'll visit Bucharest before traveling to Transylvania, where we'll tour ancient castles and take a ski lift to 7,000 feet for three days of hut-to-hut hiking (we'll need carry only daypacks). Then we'll travel by train to Constanta to relax on the beaches and take a short evening cruise. *Leader: Jim Halverson. Price: $1,905 (11–14) / $2,180 (10 or fewer); Dep: $200.* **[92670]**

The Dordogne: Its History, Culture, and Ecology, France—September 7–17. As guests of an environmental education center at Sireuil (near Les Eyzies), we will leisurely explore the history and culture of the fabled Dordogne region on foot and by minibus. We'll visit cave dwellings to see prehistoric painted figures and sculptures; tour fortified villages, riverbank *chateaux*, farms, markets, and cottage industries; and sample some of the valley's fine restaurants. A special treat will be an overnight canoe trip on the Vézère River. Environmentalists will meet with us to discuss local concerns. *Leader: Elaine Adamson. Price: $2,170 (12–15) / $2,445 (11 or fewer); Dep: $200.* **[92660]**

Winter in Austria: Cross-Country Skiing—January 23–February 6, 1993. Repeating this popular trip, we'll stay in two small villages, each for a week, and take a midtrip holiday to Salzburg. Lodging is in comfortable family inns serving marvelous Austrian cuisine. Prepared tracks start almost at our door and lead over snow-covered hills to nearby villages and along forested trails to mountain chalets. Several excursions are planned to sample the ski trails at some of the country's most famous ski centers. Trip price includes ski rental and instruction, a sleigh ride and sledding, music, and more. This is a trip for all levels of skiers. *Leader: Carol Dienger. Price: $2,575 (12–15) / $2,850 (11 or fewer); Dep: $200.* **[93705]**

LATIN AMERICA

Belize: Reef and Ruins, Central America—February 15–24. Using a ranch as our base, we'll explore Belize's lush interior and visit the magnificent ruins of ancient Tikal in neighboring Guatemala. Moving to the Caribbean coast, we'll stay on a palm-studded island near a fascinating barrier reef, where we'll snorkel in clear water, learn about local conservation issues, and feast on fresh seafood! *Leader: Lola Nelson-Mills. Price: $1,865 (10–12)/$2,085 (9 or fewer); Dep: $200.* **[92553]**

The River of Ruins: An Archaeological Adventure by Paddle-Raft, Mexico—March 14–24. Come explore ancient Mayan ruins in a verdant jungle setting. Before setting foot in our paddle-rafts for a trip down the fabled Usumacinta River, we'll marvel at Palenque's ancient splendor and view the famous murals at Bonampak. At Yachilan we'll enjoy an enchanted evening in an old Mayan courtyard lit by a full moon and thousands of fireflies. How can we help but feel the presence of Mayan spirits? We will be accompanied by an archaeologist. *Leader: John Garcia. Price: $2,760 (12–15)/$2,965 (11 or fewer); Dep: $200.* **[92575]**

A Sailing Sojourn in the British Virgin Islands for Artists and Photographers—April 16–23. Come sail among the mountainous British Virgin Islands aboard a 50-foot yacht, with time scheduled to photograph or draw the remarkable scenery. We will also hike through tropical forests, snorkel over coral reefs,

International

and relax on white sand beaches. Our trip starts on the main island of Tortola; we'll explore a different island each day and anchor in coves at night. No sailing experience is necessary. *Leader: Chuck Blouin. Price: $2,255 (6–8)/$2,705 (5 or fewer) Dep: $200.* **[92585]**

Costa Rica: River Rafting, Jungle, and Beach Adventure —April 18–25. Because of its ecological diversity and conservation consciousness, Costa Rica is a naturalist's paradise. We'll raft the Pacuare and Reventazon rivers for three days, enjoying whitewater, waterfalls, and jungle wildlife. Then we journey south to Manuel Antonio National Park, where the jungle and Pacific meet. Here we'll hike in the rainforest to observe the extraordinary wildlife and snorkel in warm ocean waters to see the myriad tropical fish. *Leader: Carolyn Braun. Price: $1,995 (12–15)/ $2,265 (11 or fewer); Dep: $200.* **[92595]**

Endangered Forests of Costa Rica and the Ecuadorean Amazon—June 1–14. This trip is a special opportunity to experience the variety and wonder of three endangered tropical ecosystems. In Costa Rica, we'll visit the cloud forest at Monteverde and a unique Pacific dry forest. Then we fly to Ecuador and camp in an Amazon rainforest at the Cuyabepo Nature Reserve. Skilled guides will help us identify the flora and fauna and describe local ecology. We'll also observe and discuss the impact of the human population on these areas. *Leader: Wheaton Smith. Price: $2,940 (12–15) / $3,295 (11 or fewer); Dep: $200.* **[92615]**

A Holiday Adventure: Rio de Janeiro and the Rainforests of Brazil—December 20–31. Discover the magnificence of Rio de Janeiro's Ilha Grande—an island paradise set in a turquoise sea—and mountainous Itatiaia, Brazil's oldest national park, famed for its granite peaks. We'll camp on Ilha Grande's isolated white sand beaches and take moderate hikes through remnants of Brazil's coastal rainforest. We'll also camp in Itatiaia, where we'll stroll in 8,000-foot-high meadows. Christmas will be spent in Paraty, an exquisite Portuguese colonial town, and New Year's Eve on exotic Copacabana beach. Join our holiday festivities! *Leader: Gail*

OUTING RESERVAT

MEMBERSHIP NUMBER

YOUR NAME

STREET ADDRESS

CITY STATE

PLEASE PRINT YOUR NAME AND THE
NAMES OF OTHER PEOPLE IN YOUR PARTY

1

2

3

4

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OUTING RESERVAT

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PLEASE !
MAIL TO: SIERRA CLUB OUTI

Sierra Club Outing Dept.
Dept. #05618
San Francisco CA 94139

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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.
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 ride-sharing or other trip-related purposes.
5. Not all trips can accommodate special dietary needs or preferences. Contact the leader for this information before applying.
6. Applications for trip space will be accepted in the order they are received at the following address:

   Sierra Club Outing Dept.
   Dept. #05618
   San Francisco, CA 94139

7. Please do not send express mail to this address. Doing so will delay your application.

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BELOW LEFT: CAYE CAULKER, BELIZE; RIGHT: TIKAL, GUATEMALA; FAR RIGHT: SEA KAYAKERS, SEA OF CORTEZ, MEXICO.

TOM MOORE

JOHN NICHOLAS BOLMAN

Solomon. Price: $2,850 (12–15) / $3,125 (11 or fewer); Dep: $200. **[92680]**

Paine Towers Trek, Patagonia, Chile—February 19–March 4, 1993. Imagine yourself amidst grandeur the equal of Glacier, Yellowstone, and Yosemite parks. Forming the southernmost spine of the Andes, the snow-dappled Paine Towers preside over immense calving glaciers, iceberg-studded lakes, grand cascades, and a rare diversity of landforms and wildlife. Join us on this moderate, packer-supported trek through wilderness solitude.

JOHN NICHOLAS BOLMAN

Capping our low-elevation journey, we'll enjoy visits to the Straits of Magellan, Punta Arenas, and the capital city of Santiago. *Leader: Bud Bollock. Price: $2,725 (12–15) / $3,000 (11 or fewer); Dep: $200.* **[93715]**

PACIFIC BASIN

Exploring New Zealand—February 7–27, 1993. New Zealand offers the visitor magnificent scenery and many outdoor activities. Beginning in Auckland, we will explore the country's many attractions by dayhiking and sightseeing our way to Christchurch. We will see steaming volcanoes, erupting geysers, bubbling hot mud pools, a Maori village, a glowworm cave, the Kauri forest, alpine valleys, Milford Sound, snowcapped mountains, and glistening glaciers that extend down into subtropical rainforest. *Leader: Wayne Martin. Price: $2,965 (9–11) / $3,250 (8 or fewer); Dep: $200.* **[93710]**

SOVIET UNION

Lake Baikal Service Trip, Soviet Union—June 9–28. This is a first-time-ever sterling opportunity for Club members to participate in an exchange service trip near Lake Baikal in southwestern Siberia. We will be hosted by the Irkutsk Ecological Center, and our project includes trail building, fodder-stand and salt-site renovation for wild animals, and campsite cleanup. We will have ample time to socialize with our hosts not only at work but also in their homes. Together, we'll hike, attend festivals and ecological seminars, and enjoy a short cruise on Lake Baikal. By taking part in this trip, Club members will enable eight Soviet citizens to come to the United States and join a service trip in the High Sierra. (See trip #92349, page 103.) *Leader: Bud Bollock. Price: $1,635 (not tier-priced); Dep: $200.* **[92620]**

The Soviet Far East—August 18–September 6. By charter boat and specially arranged hikes in the taiga, we'll explore the ecological diversity of Lake Baikal, the jewel of Siberia and the second-largest lake in the world. We'll also delight in the charms of Irkutsh, where the Decembrist exiles wedded the Slavic and Siberian cultures. And we'll see how the dynamic entrepôt of Kahabarovsk is coming of age on the Pacific Rim. Accommodations include campgrounds and comfortable hotels. The trip starts and ends in Moscow. *Leader: Bob Madsen. Price $2,470 (12–15) / $2,745 (11 or fewer); Dep: $200* **[92650].**

CONSERVATION CHALLENGE

ECUADOR'S CROWN JEWEL UP FOR GRABS

Ecuador's lush rainforests are home to the headwaters of the Amazon River and a tremendous diversity of wildlife, including 4,000 species of flowering plants, 600 species of birds, and 120 species of mammals. Currently, several oil companies are pressing for a final agreement on two leases in Yasuni National Park and the surrounding traditional territory and legal reserve of the Huaorani Indians. The leases would give oil companies drilling rights to oil reserves that are expected to last just 20 years.

Oil exploration is opposed by numerous Ecuadorian and international environmental organizations as a violation of Ecuadorian law and internationally accepted standards on national parks and as a threat to the survival of the Huaorani communities.

What you can do: Write to the President of Ecuador, Dr. Rodrigo Borja Cevallos, and urge him to halt industrial development in Yasuni National Park and Huaorani territory. His address is: Palacio de Gobierno, Garcia Moreno 1043, Chile, Quito, Ecuador.

Also consider going on trip #92615 to Costa Rica and Ecuador.

Service

HISTORICAL PHOTOGRAPH: STAGECOACH LEAVING MINERAL KING ON THE 1903 OUTING TO KERN RIVER CANYON, SIERRA.

Combine the satisfaction that comes from doing something positive for the environment with the enjoyment of a backcountry outing. ♦ On most service trips, half the days are left free to enjoy the wilderness. Our trips are fun and spontaneous and the participants energetic and enthusiastic. Work experience is not necessary on any of the trips; we will train you. ♦ Service trip fees are low because the program is subsidized by the National Outing Committee and tax-deductible donations from corporations and individuals. For information on how you can make a donation to the program, see page 104. ♦ Trip sizes range from nine to 25, including leader and cook. All service trips unless indicated otherwise should be considered moderately strenuous. ♦ If you have been looking for a chance to contribute some time and energy to the wilderness, a service trip is surely the answer.

Phoenix Mountain Preserve, Arizona—February 29–March 7. This 7,000-acre desert mountain preserve lies within the Phoenix city limits. Our project to build a handicap-accessible trail will take us into rugged terrain still inhabited by coyotes, jackrabbits, and cactus wrens. *Leader: Maureen Hymel. Price: $155; Dep: $50.* **[92074]**

Deadman Mesa Trail #17, Mazatzal Wilderness, Tonto Forest, Arizona—March 7–14. Against a backdrop of deep canyons, rugged cliffs, and the wild and scenic Verde River, we will reconstruct a neglected secondary trail near the top of Deadman Mesa. *Leader: Jim Vaaler. Price: $175; Dep: $50.* **[92075]**

Deer Creek Trail, Mazatzal Wilderness, Arizona—March 15–22. Help repair a trail in the rugged Mazatzal Mountains. We will be continuing the efforts of previous years' crews: clearing brush, removing fallen limbs, and rebuilding trail tread. *Leader: Vance Green. Price: $160; Dep: $50.* **[92076]**

Superstition Wilderness, Arizona—April 4–11. The Old West still lives in the high desert mountains and canyons of the Superstitions. We will do trail maintenance work and on our leisure days hike to scenic canyons and prehistoric Indian sites. Sleep to the sound of the coyote! *Leader: Wil Passow. Price: $160; Dep: $50.* **[92077]**

Big Sur, Ventana Wilderness, California—April 11–18. Our goal is to clear the last miles of the Black Cone Trail. Our camp on Pine Ridge offers coastal views, while nearby peaks and thermal springs beckon on our free days. *Leader: Maura Eagan Harder; Cook: Charles Reimann. Price: $225; Dep: $50.* **[92078]**

The Arizona Trail Interpretive Project, Superstition Wilderness, Arizona—April 11–19. In an upper Sonoran Desert wilderness where the cacti are in bloom, we will help build an interpretive trail emphasizing the area's social and natural history. *Leader: Jack Hershey. Price: $205; Dep: $50.* **[92079]**

Galiuro Wilderness East Divide, Galiuro Mountains, Arizona—April 11–19. Elevations ranging from 4,000 to 7,600 feet accommodate a variety of vegetation in the Galiuros—from desert grasses and cacti to oak, aspen, and pine. We'll backpack to a high base camp, where we'll repair trail and dayhike or relax on our free days. *Leader: John Van Ness. Price: $245; Dep: $50.* **[92308]**

Buffalo River, Ozark Forest, Arkansas—April 12–18. We will begin building a major trail that will eventually traverse mountainsides and canyons near the Buffalo River's headwaters. On free days we may hike, canoe, or explore historic sites. *Leaders: John and Mary Frantz. Price: $195; Dep: $50.* **[92080]**

Santa Cruz Island Preserve, California—April 13–20. Enjoy spring on this island owned by The Nature Conservancy. We'll build trail, work on a historic ranch, and explore the island on our free days. *Leader: John Albrecht; Cook: Carla Moreno. Price: $325; Dep: $50.* **[92309]**

Redrock Trails, Munds Mountain Wilderness, Coconino Forest, Arizona—April 19–25. With its canyons, redrock formations, and forested mountains, this is a wilderness of unexcelled beauty. We will maintain several trails, including Secret Canyon, and still have ample time for dayhiking

RIGHT: GRAY FOX;
BELOW: GRAND TETON
NATIONAL PARK, WYOMING.

and photography. *Leader: Jerry Meyer. Price: $235; Dep: $50.* **[92310]**

The Arizona Trail, North Kaibab Forest, Grand Canyon Park, Arizona—April 20–29. We'll build a portion of the Arizona Trail in this North Rim forest for five days, then hoist our backpacks for a strenuous five-day adventure in the remote western Grand Canyon. *Leader: Deborah Northcutt; Cook: Jasmine Star. Price: $325; Dep: $50.* **[92081]**

Snowbird Creek, Slickrock Wilderness, North Carolina—April 25–May 2. From our base camp at Rattler Ford, we'll work to develop and improve trails in the Snowbird Creek area. On free days we can hike to peaks more than 5,000 feet in elevation for sweeping views of the Appalachians. *Leader: Otto Spaethichler. Price: $220; Dep: $50.* **[92082]**

"Arches—de Triomphe," Arches Park, Utah—April 26–May 2. High-spirited individuals will enjoy working among an infinite variety of stone formations. We'll assist with exotic plant removal and trail maintenance. *Leader: Susan Estes. Price: $270; Dep: $50.* **[92083]**

Buffalo River, Ozark Forest, Arkansas—April 26–May 2. Amid the Ozark's spring flora along America's first national river, we will add a segment to a new, well-engineered trail. Expect mild days, cool nights, and opportunities to photograph, swim, hike, and explore. *Leader: W.E. "Bill" Riecken. Price: $195; Dep: $50.* **[92084]**

The Arizona Trail, Superstition Wilderness, Arizona—May 2–10. After backpacking to our base camp in the Superstition Mountains, we will work on a historic 1860s miners' route. On free days we'll hike to ancient cliff dwellings and hidden pools. *Leader: Jack Hershey. Price: $205; Dep: $50.* **[92085]**

Gila Wilderness, New Mexico—May 9–16. In this beautiful remote mountain forest (the first designated wilderness area in the United States), we will do trail work, and on leisure days hike to historic and prehistoric sites of the Old West. *Leader: Wil Passow. Price: $170; Dep: $50.* **[92086]**

North Rim Trail Construction Part III, North Kaibab Forest, Arizona—May 11–20. We will continue to build a new trail that overlooks Tapeats Amphitheater in the Grand Canyon. Following our work project, we'll hike down to Sowats Canyon and Mountain Sheep Springs. This will be a strenuous trip. *Leader: Tim Wernette. Price: $325; Dep: $50.* **[92311]**

Big Dry Creek, Gila Wilderness, New Mexico—May 23–31. After hiking in five miles to our base camp, we will restore an abandoned canyon trail in a remote section of the wilderness. Days will be warm and spring wildflowers in bloom. Our work will be strenuous. *Leaders: Linda and John Buchser. Price: $230; Dep: $50.* **[92087]**

Bryce Canyon Park, Utah—May 31–June 7. Experience the beauty and grandeur of the Southwest's premier red-rock canyons while maintaining trails and building a fence to keep out of the park the cows that graze in Dixie Na-

Service

tional Forest. A side trip to Zion National Park is included in our itinerary. *Leader: Jeff Wasserman. Price: $250; Dep: $50.* **[92312]**

Blue Range Primitive Area, Apache Forest, Arizona—June 6–13. Our work in the White Mountains will consist of repairing and rerouting a trail in a canyon near Hannagan Meadow (9,000 feet). We'll have time to explore and photograph the rugged canyons and ridges that characterize the Blue River and its surrounding high country. *Leader: Rod Ricker. Price: $155; Dep: $50.* **[92313]**

Chaco Canyon Archaeology I, Chaco Culture Historical Park, New Mexico—June 6–13. In an extraordinary backcountry environment, participants will assist an archaeologist in the preservation and stabilization of a site excavated in the 1920s. Expect minimal comforts, abundant hard work, and spectacular settings. *Leaders: Bonnie Sharpe and Jim Ilchuk. Price: $275; Dep: $50.* **[92314]**

Chaco Canyon Archaeology II, Chaco Culture Historical Park, New Mexico—June 6–13. Northwest of Albuquerque, hundreds of Anasazi sites cluster in Chaco Canyon. This year's projects range from mundane to glamorous—from weeding kivas to preserving prehistoric stone masonry. *Leader: Ann Harding. Price: $275; Dep: $50.* **[92315]**

Chaco Canyon Archaeology III, Chaco Culture Historical Park, New Mexico—June 13–20. See description for trip #92314 above. *Leaders: Bonnie Sharpe and Jim Ilchuk. Price: $275; Dep: $50.* **[92316]**

Chaco Canyon Archaeology IV, Chaco Culture Historical Park, New Mexico—June 13–20. See description for trip #92315 above. *Leader: R. Reid Earls II. Price: $275; Dep: $50.* **[92317]**

Acadia Park, Maine —June 14–20. Join us for the first service trip in Acadia National Park! We'll spend three days renovating an old carriage road, with plenty of time on our free days to explore Mt. Desert Island by bicycle, foot, and canoe. *Leader: Laurie J. Buck. Price: $225; Dep: $50.* **[92318]**

Archaeological Survey, Manti–La Sal Forest, Utah—June 20–27. Working with archaeologists, we'll use noninvasive field methods to survey, map, and photograph Anasazi sites. We'll also explore the surrounding piñon forest and slickrock country. *Leader: Marietta Tretter. Price: $275; Dep: $50.* **[92319]**

HISTORICAL LEADER PROFILE

FRED EISSLER

The March 1958 *Sierra Club Bulletin* advertised a "Clean-up Work Party"—the first Sierra Club service trip, led by Fred Eissler. On that trip 28 participants removed 26,000 tin cans from Kearsarge Pass—amounting to three tons of trash. Eissler instituted a new policy for all trips: "A can's best way out of the Sierra is the way it came in, in a pack. We no longer bury tins." Under Eissler's guidance, the service trip became an outing institution, inspiring similar efforts in local chapters and other organizations. In 1962, the program expanded to include trail maintenance trips. Eissler was elected to the Board of Directors in 1964 and in 1966 proposed the national trail system. The service trip program he founded has grown to more than 90 service trips in 1992 and is still one of the best ways Club members can directly affect the quality of wilderness.

Salmon River Archaeology, Idaho—June 20–27. The banks of the lower Salmon River are rich in prehistoric sites and artifacts, which we will survey, inventory, and map under the guidance of Bureau of Land Management archaeologists. We will camp by the river and enjoy hiking and photography in our spare time. *Leader: Ann Harding. Price: $280; Dep: $50.* **[92320]**

Allagash Wilderness Waterway Restoration, Maine—June 20–28. We will assist the waterway staff in erosion control and site restoration. Traveling by canoe, we will run the Chase Rapids (Class II-III whitewater) and have ample time to fish, swim, and view the diverse wildlife. Canoeing experience on moving water is required. *Leader: Kathryn L. Beilke. Price: $405; Dep: $50.* **[92321]**

Rainy Lake, Marble Mountain Wilderness, Klamath Forest, California—June 20–29. Magnificent ancient forests, wildflowers, black bear, and trout-filled lakes characterize the Marble Mountains. We'll hike 11 miles over two days to our base camp at Rainy Lake, then repair the trail leading to Salmon Mountain Crest. On free days we'll roam the forest, fish, and swim. *Leader: John Sherman; Cook: Kathryn Hannay. Price: $245; Dep: $50.* **[92322]**

Sierra Club's Own Trail, Sierra Forest, Sierra—June 20–30. The Service Trip program adopted the Goodale Pass Trail more than ten years ago, and performs annual early maintenance to prepare it for the summer hiking season. We'll hike six miles to Graveyard Lake and work as far as Selden Pass. *Leader: Bart Hobson; Cook: Dan Bittle. Price: $195; Dep: $50.* **[92323]**

Zion Park, Utah—June 24–July 1. After repairing winter trail damage in Hop Canyon, we'll backpack up the East Fork of the Virgin River into Parunuweap Canyon, where we'll collect litter. Come join this strenuous and spectacular adventure. *Leader: Steve Lachman; Cook: Eric Hover. Price: $250; Dep: $50.* **[92324]**

Dark Divide and Mount St. Helens, Gifford Pinchot Forest, Washington—July 1–11. The giant trees and tiny wildflowers of an old-growth forest provide the setting for our work project in the Dark Divide. The climax of our trip is a climb up Mount St. Helens to view the lava dome from the crater rim. *Leader: Harriet Hyams; Cook: Les Atkins. Price: $245; Dep: $50.* **[92325]**

Women's Trip, Horse Range Lake, Marble Mountain Wilderness, California—July 1–11. Camping at Horse Range Lake (5,970 feet), we will build and relocate trails. The hike in is 14 miles and includes a 3,500-foot elevation gain and river crossings. The area promises good hiking, swimming, and fishing. This is a strenuous trip. *Leader: Marian Baldy; Cook: Didi Tompsett. Price: $245; Dep: $50.* **[92326]**

Hunter-Fryingpan Wilderness, White River Forest, Colorado—July 1–11. Wildflowers, 13,000-foot peaks, and aspen forests abound in this wilderness near Aspen. We will reroute part of a popular trail and construct causeways over several bogs. Free days

LEFT: YUCCA, WHITE SAND NATIONAL MONUMENT, NEW MEXICO; BELOW: ON THE JOHN MUIR TRAIL, SIERRA.

ALL SERVICE TRIPS SHOULD BE CONSIDERED MODERATELY STRENUOUS UNLESS OTHERWISE NOTED IN THE TRIP DESCRIPTION.

can be spent fishing or bagging nearby peaks. *Leader: Mike Wagner; Cook: Charles Ammann. Price: $245; Dep: $50.* **[92327]**

Cascade Lake, Adirondack Park, New York—July 5–11. In the largest park in the 48 contiguous states, we will build bridges over streams that flow into Cascade Lake and remove downed trees and underbrush. We'll work every day, with time off in the afternoon to swim or hike. *Leader: Richard Grayson. Price: $205; Dep: $50.* **[92328]**

Five Ponds Wilderness Canoe and Trail, Adirondack Park, New York—July 11–18. Celebrate the Adirondack State Park Centennial in an isolated forest laced with waterways and rolling trails. We'll canoe across Lows Lake to our base camp for trail work and play. Canoeing experience is required. *Leaders: Kevin Karl and Laurie J. Buck. Price: $225; Dep: $50.* **[92329]**

Pine Valley, Dixie Forest, Utah—July 11–18. At an elevation of 10,000 feet, we'll improve overused trails in a beautiful green oasis near red-rock formations west of Zion National Park. Come share this unique mountain environment and delight in its abundant wildlife. *Leader: Paul Pochan; Cook: Susan Carrell. Price: $195; Dep: $50.* **[92330]**

Bear Creek Canyon, John Muir Wilderness, Sierra Forest, Sierra—July 11–19. Amid 13,000-foot peaks in Bear Creek Canyon, we will replace log bridges across trout streams. We'll work in a lodgepole pine forest at 9,000 feet and should see deer, black bear, and abundant birds. *Leader: Mary Grisco; Cook: Paul Laverty. Price: $195; Dep: $50.* **[92331]**

Two Ocean Pass, Teton Wilderness, Wyoming—July 12–22. Backpacking 16 miles to our base camp at 9,000 feet, we'll work four to five days clearing trails. We'll enjoy gourmet dutch-oven meals and spend free days smelling wildflowers, hooking trout, or hiking to Yellowstone National Park. *Leader: Doug Pilcher; Cook: DeVeaux Gauger. Price: $245; Dep: $50.* **[92332]**

Beginners' Trip, Washakie Wilderness, Wyoming—July 14–24. Among 12,000-foot peaks 30 miles from Yellowstone National Park, we'll help archaeologists restore a historic backcountry log cabin. On free days we'll hike, fish, or relax. *Leader: Conrad Smith; Cook: Roy Cougle. Price: $245; Dep: $50.* **[92333]**

Granite Lake, Trinity Alps, California—July 14–24. We'll do trail maintenance from our base camp at Granite Lake, which will be high enough to escape the heat but warm enough for us to swim after work. The Trinity Alps are a joy to behold, with broad vistas, snowcapped peaks and a multitude of flora and fauna. Enjoy vegetarian cuisine! *Leader: Jason Starr; Cook: Jasmine Starr. Price: $245; Dep: $50.* **[92334]**

CONSERVATION CHALLENGE

NORTHEASTERN FORESTS UNDER SIEGE

From the Adirondacks in New York to Maine's Baxter State Park, the forests of the Northeast encompass 26 million acres. Since the late 1980s, these forests have come under siege by land speculators and real estate developers. Changing economic conditions in the timber industry have led to hostile takeovers in which millions of acres of woodland have changed hands.

What you can do: To protect the natural beauty and biological diversity of this region, new national forests, state parks, and open space preserves must be established. Find out how you may help in this effort by writing to the Sierra Club, Northern Forest Campaign, 85 Washington St., Saratoga Springs, NY 12866.

To see these forests yourself, consider going on a trip to Adirondack Park in New York or Baxter Park in Maine. For a listing of these trips see page 114 in the Geographic Index.

Pike Forest, Colorado—July 14–24. Great views await our midsummer trail-maintenance crews. We'll camp at 10,000 feet in the cool Rockies. On free days we'll bag 14,000-foot peaks or relax and take in the grand scenery. *Leader: Ralph Keating; Cook: Homer Rudolf. Price: $245; Dep: $50.* **[92335]**

Ruby Mountain Wilderness, Nevada—July 16–26. Nevada? Well, yes. In this overlooked wilderness, sheer walls rise 2,000 feet out of glacial canyons, and peaks tower to more than 11,000 feet. There are lakes, steep trails, vistas, excellent fishing holes, and waterfalls to explore when we're not repairing trail. *Leader: John Anderson. Price: $195; Dep: $50.* **[92336]**

Boundary Waters Canoe Area Wilderness, Minnesota-Ontario Border—July 19–25. Canoe to work on one of many lakes teeming with fish and graced by loons. Our project consists of refurbishing campsites and clearing portage trails. The night sky will shimmer and dance with aurora borealis. *Leader: Joe Gottler. Price: $235; Dep: $50.* **[92337]**

LEFT: GRAND TETON NATIONAL PARK, WYOMING; BELOW: DOUGLAS IRIS; RIGHT: ISLE ROYALE NATIONAL PARK, MICHIGAN.

Monument Lake, Marble Mountain Wilderness, California—July 19–29. Help construct a new trail from Sandy Ridge to trout-filled Monument Lake. After a modest six-mile hike, we will camp near the lake (5,800 feet). Experience the rugged remoteness of this wilderness and savor dutch-oven cooking. *Leader: Cindy Miles; Cook: Bert Johansen. Price: $195; Dep: $50.* **[92338]**

Surprise Lake, Lake Chelan–Sawtooth Wilderness, Washington—July 22–August 1. Trout, wilderness, sunshine, and swimming are the rewards for a two-day hike to our base camp at 6,200 feet, where we'll be rehabilitating trail. Expect a strenuous hike out. *Leader: Richard Garner; Cooks: David Stranahan and Maggie McLaughlin. Price: $325; Dep: $50.* **[92339]**

Archaeological Survey, San Juan Resource Area, Colorado—July 25–August 1. Between Mesa Verde and the Utah border lies an enormous tract of classic redrock and piñon wilderness. Assisting Bureau of Land Management archaeologists, we'll document Anasazi sites mysteriously abandoned nine centuries ago. *Leader: Bonnie Sharpe. Price: $275; Dep: $50.* **[92340]**

Polaris Pass, Eagle Cap Wilderness, Oregon—July 26–August 5. Work and relax in a beautiful mountain oasis surrounded by desert. A ten-mile hike with a 3,500-foot elevation gain brings us to Polaris Pass (8,000 feet), where we'll build retaining walls and trails. This is a strenuous trip. *Leader: Ron Thomas; Cook: Karen Murn. Price: $245; Dep: $50.* **[92341]**

Cottonwood Lakes, Inyo Forest, Sierra—July 28–August 7. We'll rehabilitate an alpine meadow and conduct trail maintenance at 10,500 feet beneath eye-catching 14,000-foot peaks. Expect some heavy work moving rocks and fallen trees. On free days we'll explore the Cottonwood Lakes and climb some peaks. *Leader: Jeff Myll; Cook: Gail Perkins. Price: $245; Dep: $50.* **[92342]**

Cloud Peak, Wyoming—July 29–August 8. Rugged peaks and crags offer great views and unique scrambling opportunities around 13,000-foot Cloud Peak. The lucky hiker will enjoy alpine lakes and a great variety of flowers, birds, and animals. Our work includes revegetation, trail maintenance, and rerouting. *Leader: Cynthia Griffin-Brown; Cook: John Harbison. Price: $245; Dep: $50.* **[92343]**

Pioneer Basin, Sierra Forest, Sierra—July 30–August 9. Dramatic glacial cirques and lakes fill this remote area of the High Sierra. From our 10,000-foot base camp, we'll be rebuilding the major trail from Third and Fourth recesses. *Leader: Ken Amster; Cook: Susan Wilson. Price: $195; Dep: $50.* **[92344]**

Ball Lakes, Selkirk Mountains, Panhandle Forest, Idaho—August 1–11. High mountain lakes and abundant wildlife offer exciting free day hikes in this beautiful but rugged area. Our trail maintenance and construction will be strenuous but rewarding. *Leader: Bob Limbert; Cook: Terri Limbert. Price: $195; Dep: $50.* **[92345]**

Enchanted Valley, Olympic Park, Washington—August 2–11. Through ancient, moss-covered forests, we'll hike two days to our base camp in Enchanted Valley, where we'll do trail maintenance. On free days we'll observe the abundant wildlife and hike through wildflower gardens to glissade on Anderson Glacier. *Leader: John Sherman; Cook: Janet Sherman. Price: $225; Dep: $50.* **[92346]**

Pacific Crest, Glacier Peak Wilderness, Washington—August 2–12. Taking two days to boat and hike to our camp near alpine meadows, we'll mend a broken bridge and brush trail. Lyman Lakes and local peaks beckon on free days. *Leader: Tony Lambe; Cook: Mark Winn. Price: $325; Dep: $50.* **[92347]**

Wind River Range, Popo Agie Wilderness, Wyoming—August 4–14. We'll be treated to great views of the eastern slopes of the Continental Divide during our trail-maintenance work. This strenuous trip takes us above 10,000 feet, offering high peaks, wildflowers, and wildlife. *Leader: Wally Mah; Cook: Liz Varnhagen. Price: $245; Dep: $50.* **[92348]**

Soviet Exchange Trip, Honeymoon Lake, John Muir Wilderness, Sierra—August 5–11. Join a small group of visiting Soviets for some trail-maintenance work on the eastern side of the magnificent John Muir Wilderness. Timberline lakes, subalpine meadows, and granite peaks abound near 10,000-foot Honeymoon Lake. The hike in is strenuous. (See trip #92620, page 97) *Leader: Bill Gibson; Cook: Cheryl Marie Draves. Price: $245; Dep: $50.* **[92349]**

CONSERVATION CHALLENGE

WILDERNESS DESIGNATION URGED FOR WHITE CANYON, UTAH

The 85,000-acre White Canyon region is proposed for wilderness designation by the Utah Wilderness Coalition, of which the Sierra Club is a founding member. The area contains alcoves, grottoes, potholes, groves of cottonwood, ponderosa pine, and Douglas fir; it is also rich in archaeological sites, including cliff dwellings occupied hundreds of years ago by the Anasazi. It would take weeks to explore this delightful maze of canyons.

But the Bureau of Land Management has sanctioned oil drilling within the region; other threats include road construction and the deforestation of thousands of acres of piñon-juniper woodland to increase livestock forage.

What you can do: Ask your congressional representative to cosponsor Utah Congressman Wayne Owen's H.R. 1500, which would make White Canyon and other deserving Utah wildlands a part of the National Wilderness Preservation System. Write to: House of Representatives, Washington, DC 20515.

Also consider going on one of our many trips to southwestern Utah. See page 116 in our Geographic Index.

Service

East Maroon Portal, Maroon Bells–Snowmass Wilderness, Colorado—August 7–17. Magnificent Maroon Bells scenery surrounds our 10,000-foot camp. We'll work hard rebuilding trails and play harder, cleansing our souls among breathtaking 14,000-foot peaks. Songs, charades, and evening fun included at no extra charge. *Leader: Kathryn Hannay; Cook: Jerry Turner. Price: $245; Dep: $50.* **[92350]**

Bear Lake, San Juan Wilderness, Colorado—August 8–15. Experience glorious high-altitude scenery around our 10,000-foot camp, where we'll remove blowdown on trails in aspen and spruce forests. Alpine terrain and plentiful wildlife assure wonderful photographs. Free days provide ample time for exploring nearby peaks. *Leader: Jim Klein; Cook: Charla Beth Mobley. Price: $245; Dep: $50.* **[92351]**

Pemigewasset Wilderness, White Mountain Forest, New Hampshire—August 9–14. We'll build bridges and improve drainage on trail near the Appalachian Mountain Club's Camp Dodge. On free days we may climb nearby 4,000- to 5,000-foot peaks or swim in a river. *Leader: TBA. Price: $245; Dep: $50.* **[92352]**

Hell's Canyon Wilderness, Seven Devils Mountains, Idaho—August 11–21. Towering above the Snake River, the Hell's Canyon Wilderness peaks at more than 9,000 feet by the mythical Seven Devils. We'll work hard maintaining trail and frolic among craggy peaks and sparkling lakes. *Leader: Bill Glenn; Cook: Bill Hallagan. Price: $245; Dep: $50.* **[92353]**

Targhee Teton, Jedediah Smith Wilderness, Wyoming—August 11–21. At a high mountain lake (9,000 feet) northwest of the Tetons, we'll relocate and repair trail. This trip is designed for energetic folk who don't mind a strenuous ten-mile hike to our base camp or wielding crosscut saws. *Leader: Jan Kettelle. Price: $245; Dep: $50.* **[92354]**

The Wyoming Trail, Mt. Zirkel Wilderness, Colorado—August 11–21. On a spine that forms the Continental Divide with 10,000- to 12,000-foot peaks, we'll enjoy fine views east and west. At the height of summer in the Rockies, we'll rehabilitate a well-worn trail. *Leader: Larry Wheelock. Price: $245; Dep: $50.* **[92355]**

Tuolumne Meadows, Yosemite Park, Sierra—August 12–23. Join us on a trail restoration project helping to pre-

DONATIONS NEEDED TO SUPPORT SERVICE TRIPS

Service trips are one of the most important ways in which the Sierra Club cares for our cherished natural resources.

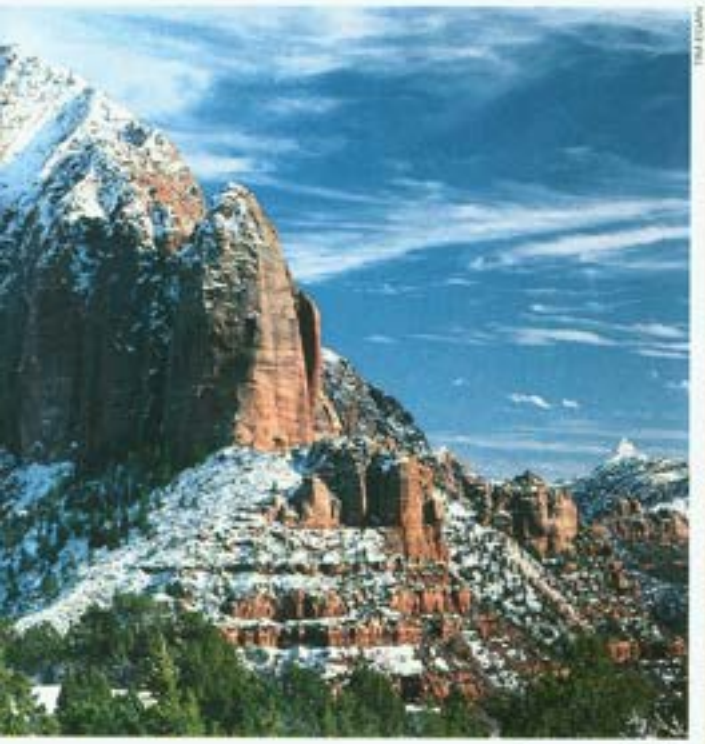
Dedicated, hard-working volunteers use their vacations to clean up rivers, rebuild trails, restore campsites, remove exotic plants, revegetate meadows, help restore archeological sites, and take on many other projects that preserve and enhance our public lands.

Service trips are subsidized in part by donations from individuals. Although fees paid for the trips themselves are not tax-deductible, donations to the Service Trips Account of The Sierra Club Foundation are.

The Club's need for financial support for this unique program becomes more critical each year as the demand for trips and the cost of running the program increase. If you can't join us in the wilderness, please join us by offering your financial support. You will have the satisfaction of knowing that fellow Club members are adding their time and energy to your donation to help protect and preserve our natural heritage.

Please send donations to: **Service Trips Account,** The Sierra Club Foundation, 220 Sansome St., Suite 1100, San Francisco, CA 94104.

CLOCKWISE FROM TOP RIGHT: PALISADE MOUNTAIN NEAR BOZEMAN, MONTANA; GRAND TETON NATIONAL PARK, WYOMING; BISON, YELLOWSTONE NATIONAL PARK, MONTANA.



serve the place John Muir called "the most spacious and delightful high pleasure-ground I have ever seen." *Leader: Steven Hartwell. Price: $325; Dep: $50.* **[92356]**

Big Fisher Lake, Selkirk Mountains, Panhandle Forest, Idaho—August 15–25. Be prepared for high-energy trail maintenance and camp rehabilitation. On free days, five lakes provide trout fishing opportunities and beautiful scenery. *Leader: Jack Spalding; Cook: C.E. Vollum. Price: $195; Dep: $50.* **[92357]**

Mt. Rainier Park, Washington—August 17–27. This national park includes several glaciers, lakes, waterfalls, flowering alpine meadows, and verdant rainforest to explore on our free days. An end-of-the-road camp will be our base for several trail maintenance projects. *Leader: TBA. Price: $245; Dep: $50.* **[92358]**

Isle Royale Park, Lake Superior, Michigan—August 18–29. A boat ride will bring Isle Royale into clear view before we step ashore and backpack into rugged wilderness. From our base camp we'll maintain trails, and on our free days enjoy hiking, swimming, and photography. *Leader: Jon Balsitis. Price: $335; Dep: $50.* **[92359]**

Rolling Creek, Lost Creek Wilderness, Colorado—August 20–30. Clear, fast streams, high meadows and 12,000-foot peaks surround our base camp and the trails we'll maintain. On free days we can explore peaks, photograph and admire the wildlife, or relax in fields of wildflowers. *Leader: Steve Wickenden. Price: $245; Dep: $50.* **[92360]**

Glacier Park I, Montana—August 20–31. We'll maintain and reroute trail amid rainbows in misty glacial cascades, delighting in the Northern Lights, plentiful wildflowers, abundant wildlife, and fish jumping in clear lakes. We'll hike or relax on our free days. *Leader: David Simon; Cook: Laurie-Ann Barbour. Price: $345; Dep: $50.* **[92361]**

High Uintas, Wasatch-Cache Forest, Utah—August 24–September 3. We will build a new section of trail in this striking and unusual east-west range. At an elevation of 10,000 feet, our base camp puts us within hiking distance of several 13,000-foot peaks and alpine lakes. *Leader: Tony Lambe; Cook: Matteo diTomaso. Price: $245; Dep: $50.* **[92362]**

Glacier Park II, Montana—August 25–September 4. See description for trip #92361 above. This is a less strenuous version of the same trip. *Leader: Paula vanHaagen; Cook: David Waite. Price: $325; Dep: $50.* **[92363]**

Baxter Park, Maine—September 5–13. We'll maintain trails near Russell Pond, an eight-mile backpack from Roaring Brook. Free time provides opportunities to canoe and enjoy the abundant wildlife. At trip's end we'll hike Mt. Katahdin (5,267 feet) and

CONSERVATION CHALLENGE

ANCIENT FORESTS NEED PROTECTION

The ancient, awe-inspiring forests of Washington, Oregon, and Northern California are falling to the chainsaw. Hundreds of feet tall, these forests are storehouses of biological diversity as well as cathedrals of quiet contemplation. More than 90 per cent of the ancient-forest ecosystem has been clearcut or developed. And we are just discovering its hidden treasures, such as the cancer-fighting properties of the Pacific Yew, once burned by loggers as a weed tree.

The ancient forests must be permanently protected and federal harvest levels in them reduced, or they will disappear forever. To minimize the impact on logging-company employees, we propose curtailing unmilled log exports and expanding the manufacture of finished wood products, as well as other measures to encourage economic diversity.

What you can do: The Sierra Club is supporting passage of S. 1536 in the Senate and H.R. 842 in the House. These bills would create a system of Ancient Forest Preserves that would protect old growth and old growth-dependent species such as the spotted owl. Please write your members of Congress and urge them to support these bills. Address your letters to: U.S. Senate/ House of Representatives, Washington, DC 20510 (Senate) and 20515 (House).

To see old growth forests yourself, consider going on a trip to the Pacific Northwest. For a listing of these trips see page 115 in the Geographic Index.

Service

its famous Knife Edge trail. *Leader: Matthew Terribile. Price: $280; Dep: $50.* **[92364]**

Timberline Trail, Mt. Hood Wilderness, Oregon—September 6–12. The round-the-mountain Timberline Trail circles Mt. Hood (11,245 feet). We'll backpack most of the scenic 40-mile trail and work on innovative projects to help erase the scars of more than a half-century of use. *Leader: Rick Zenn. Price: $220; Dep: $50.* **[92365]**

High Divide, Olympic Park, Washington—September 9–18. Amidst High Divide's magnificent views of Mt. Olympus and the Bailey Range, we'll revegetate overused campsites. On free days we'll hike to Bogachiel Peak, view elk and black bear at Cat Basin, and pick huckleberries. *Leader: John Sherman; Cook: Deborah Northcutt. Price: $265; Dep: $50.* **[92366]**

Forsythe Wildlife Refuge, New Jersey—September 12–20. Located along the coast, this wildlife refuge is an important link in the Atlantic Flyway. Working with rangers, we will rebuild trails and boardwalks for wheelchair access. Expect time for bird spotting, ocean swimming, and dune walking. *Leaders: Irwin Rosman and Sally Daly. Price: $195; Dep: $50.* **[92367]**

Chaco Canyon Archaeology V, Chaco Culture Historical Park, New Mexico—September 13–19. In this magnificent backcountry, we will be working with the Park Service and its archaeological staff to stabilize the ruins of the ancient Anasazi. This is a full work-week service trip. *Leader: Barbara S. Gooch. Price: $275; Dep: $50.* **[92368]**

DOCTORS WANTED

Some service trips have a doctor on staff. These professionals donate their time and skills for a waiver of the trip fee. They are not required to work on the project, but many do so out of the same concern for wilderness shared by regular participants.

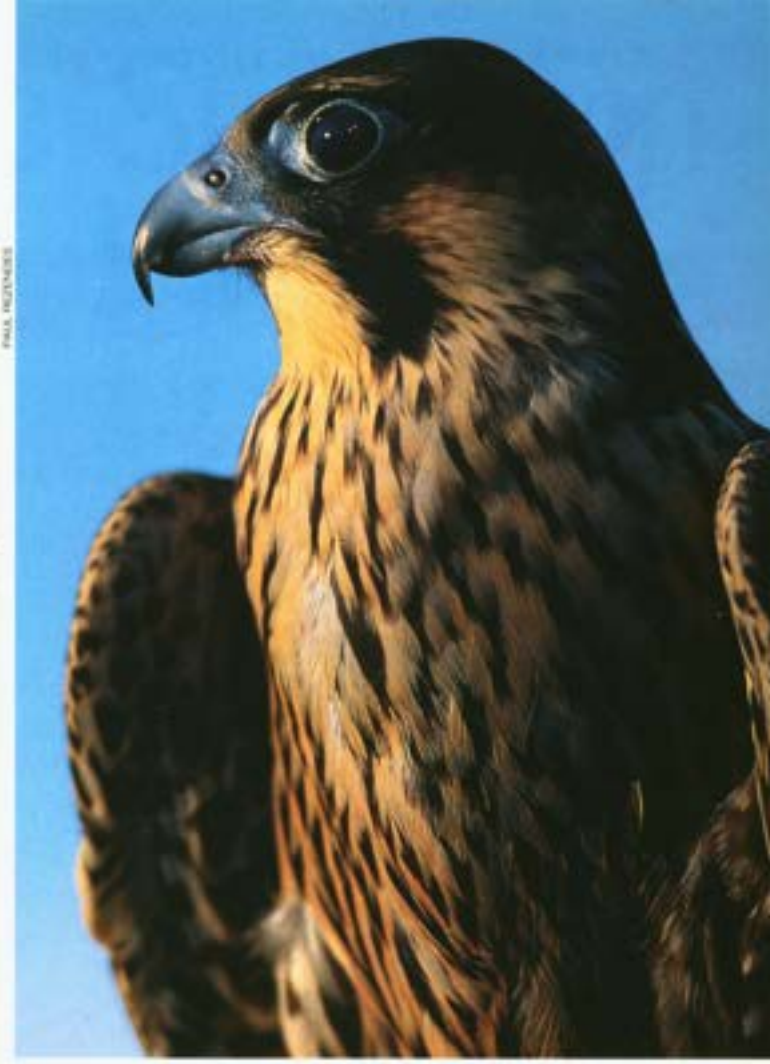
All trip leaders have the Advanced Red Cross First-Aid Card, and the Club provides a first-aid kit. Although our accident record with projects requiring the use of tools has been very good, we try to provide a staff doctor just in case.

If you are a doctor and think you might be interested in this rewarding experience, please write:

DR. BOB MAJORS
3508 Williamsborough Ct., Raleigh, NC 27609

Enclose a self-addressed, stamped envelope for reply.

FAR RIGHT: PEREGRINE FALCON; CLOCKWISE FROM TOP: BRIDGER-TETON WILDERNESS, WYOMING; SPIDER WEB; PADRE ISLAND NATIONAL SEASHORE, TEXAS.



PAUL ROBERTS

The Spirit of Gitchi Gumee, Pictured Rocks Lakeshore, Michigan—September 13–19. Along the clear waters of the Lake Superior shoreline, we'll perform trail maintenance while delighting in the stone arches and sparkling waterfalls along the 200-foot cliffs of fabled Pictured Rocks. *Leader: Russell Hall. Price: $195; Dep: $50.* **[92369]**

Sylvania Wilderness, Upper Peninsula, Michigan—September 13–19. Visit the North Woods in early fall for the brilliance of Sylvania's virgin forest. After repairing portages and campsites beside deep, clear lakes, we'll enjoy swimming, fishing, canoeing, and hiking. *Leader: Bill Sheppard. Price: $215; Dep: $50.* **[92370]**

Chiricahua Wilderness, Coronado Forest, Arizona—September 13–24. The Chiricahua Mountains are isolated and rugged "islands in the sky." We will travel through five ecological zones, sharing the home of roving bands of coatimundis and the elegant trogon. Join us for mild-weather trail maintenance at moderate elevations. *Leader: Sherri Serna. Price: $195; Dep: $50.* **[92371]**

Piñons and Needles, Canyonlands Park, Utah—September 20–26. Startling landscapes of sculptured rock spires, arches, canyons, and potholes form the background for our trail-maintenance work in the extraordinary Needles District. Traces of the ancient Anasazi are to be found throughout the area. This is a full work-week service trip. *Leader: Sandra Wilson. Price: $245; Dep: $50.* **[92372]**

Grand Gulch, Southeast Utah Wildlands—October 3–10. From a wilderness base camp in piñon-juniper forest (5,500 feet), we'll help Bureau of Land Management rangers obliterate an unauthorized road and do maintenance work on the Kane Gulch Trail. *Leader: Chuck Buck. Price: $270; Dep: $50.* **[92373]**

Illinois Ozarks Trail, Shawnee Forest—October 18–24. We will work on a trail winding through Illinois' new wilderness areas, with blufftop views of the Mississippi River Valley and the La Rue Swamp Ecological Area. On our free days we can hike down to the swamp or stay on the bluff and take pictures of the fall foliage. *Leader: Jim Baliitis. Price: $185; Dep: $50.* **[92374]**

Channel Islands Park, California—October 23–30. Come enjoy a pleasant Indian summer in the Channel Islands; our work project in this national park is yet to be determined. *Leader: TBA. Price: $325; Dep: $50.* **[92375]**

Santa Cruz Island Preserve, California—October 23–30. Enjoy fall on this island owned by The Nature Conservancy. We'll stay at a historic ranch and work on a yet-to-be-determined project. On free days we'll explore the island's habitats. *Leader: Harriet Hyams; Cook: Sue Theise. Price: $325; Dep: $50.* **[92376]**

Buffalo River, Ozark Forest, Arkansas—October 25–31. Working from a base camp, we'll build a new section of the Buffalo River Hiking Trail, winding through the woods across a creek and up a mountainside to a high overlook. We'll also have time to hike, explore, relax, and take pictures as Ozark fall color reaches its peak. *Leader: Joe Gottler. Price: $215; Dep: $50.* **[92377]**

Photograph Four Southeastern Wildlife Refuges in Alabama, Florida, and Georgia—November 28–December 6. Contribute your talents to the U.S. Fish and Wildlife Service by photographing wildlife and habitats, biologists and birdwatchers at Eufaula (Alabama), Okefenokee (Georgia), and St. Marks and St. Vincent (Florida) national wildlife refuges. This is a unique service trip for experienced photographers! *Leader: Jane Robling. Price: $405; Dep: $50.* **[92378]**

Note: See Alaska, Family, Hawaii, and International trips for other service outings.

Ski

HISTORICAL PHOTOGRAPH: TREADING DOWN THE SNOW ON THE 1912 HIGH TRIP TO KERN CANYON, SIERRA; BELOW: LASSEN VOLCANIC NATIONAL PARK, CALIFORNIA.

Enjoy the quiet and solitude of the wilderness in winter in places even backpackers can't go. ♦ Our ski trips have two different formats: Participants either stay in a central camp and take day trips, or they ski from camp to camp. ♦ Trips vary in difficulty from those more suitable for beginners to those requiring some ski-touring experience.

High Sierra Skiing, Tahoe Forest, Sierra—February 2–7. Take Nordic ski lessons at the Sierra Club's own Clair Tappaan Lodge near Donner Summit—a wonderful opportunity to develop or improve such skiing skills as diagonal stride, Telemarking, and ski skating in an area of heavy snowfall. You'll also enjoy warm accommodations, good food, a hot tub, and other lodge amenities. Your leader is a certified ski instructor. *Leader: Jeff Hartley. Price: $325; Dep: $50.* **[92091]**

Cross-Country Skiing in Copper Country, Michigan—February 2–9. Ski the Midwest's finest—the rugged hills and woodlands of the Copper Country at the tip of Keweenaw Peninsula on Lake Superior. The annual snowfall here is about 250 inches, and there are wilderness trails in this remote winter wonderland for all levels of skiers. We'll delight in skiing from the front doors of our modern cabins. *Leader: Donna Small. Price: $520; Dep: $100.* **[92471]**

Gunflint Trails, Boundary Waters Canoe Area Wilderness/Superior Forest, Minnesota—February 9–14. Glide through the silence and sparkle of a Northwoods winter on the rugged edge of the Boundary Waters, where the snow comes early and lingers late. Groomed trails lead from our cabins into the heart of the lake country. Enjoy the optional challenge of camping out overnight—then indulge yourself in a sauna. This trip is for intermediate skiers and adventurous novices. *Leader: Sarah Reinke. Price: $550; Dep: $100.* **[92472]**

Backcountry Skiing, San Juan Mountains, Colorado—March 22–28. Spectacular scenery, expert instruction, and outstanding food are features of our ski week in the high peaks of southern Colorado. We'll ski in one mile to a rustic lodge at 11,500 feet, from where we'll take a variety of tours and downhill runs. This is a great chance to improve your skiing, whatever your skill level. Vegetarians accommodated. *Leaders: Dana Densmore and Bill Donahue. Price: $975; Dep: $100.* **[92092]**

Spring Skiing in the Sierra, Tahoe Forest, Sierra—April 5–11. Enjoy spring skiing at its best. Corn snow, Telemarking, Nordic downhill, backcountry—you name it—it's all here at the Sierra Club's own Clair Tappaan Lodge. Daily lessons will be offered by a certified instructor as well as tours to Castle Peak, Crow's Nest, and German Ridge. The lodge serves great food and even has a hot tub to relax in at day's end. *Leader: Herb Holden. Price: $380; Dep: $50.* **[92093]**

Note: See International trips for another ski outing.

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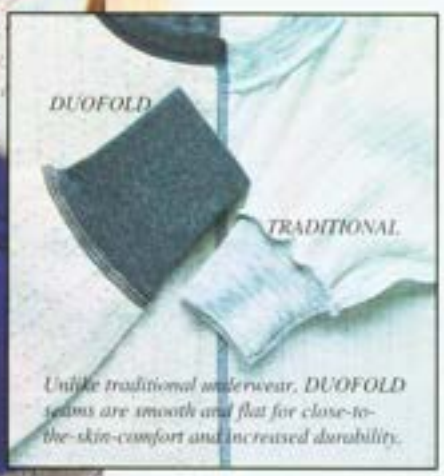

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Water

HISTORICAL PHOTOGRAPH: CALIFORNIA FALLS ON THE TUOLUMNE RIVER, SIERRA, 1914 HIGH TRIP; RIGHT: TOTEM POLE, OLYMPIC PENINSULA, WASHINGTON; BELOW: LITTLE RED BAY, LAKE HURON, ONTARIO.

Traveling by water offers a very special way to explore the wilderness. ♦ Whether canoeing in Florida or kayaking in Maine, closeness to nature is always a constant. Beach-camping, exploratory hikes, and swimming along the way provide all the ingredients for a great wilderness adventure. ♦ Trips are scheduled for most months of the year in many parts of the country and are planned to accommodate a wide range of skills. Volunteer leaders trained by the Sierra Club add a meaningful dimension that is often missing on commercial water trips. ♦ Participants share in all camp chores, including care of the equipment and meal preparation.

CANOE

CANOE TRIPS ARE GRADED AS FOLLOWS:

GRADE A:
No canoeing experience required.

GRADE B:
Some canoeing experience required.

GRADE C:
Canoeing experience on moving water required.

GRADE D:
Canoeing experience on whitewater required.

Everglades Park, Florida—February 16–21. We'll camp at Flamingo, a unique subtropical wilderness threatened by pollution and neglect, at the southern tip of the park. On our daily canoe trips we will explore mangrove and buttonwood environments, freshwater ponds, brackish water, open coastal prairies, and saltwater marshes—homes for rare plants, birds, and animals. This leisurely trip is for canoeists who enjoy birding, wildlife-watching, and photography. (Grade B) *Leaders: Otto Spiellbichler and Martin Brow. Price: $215; Dep: $50.* **[92098]**

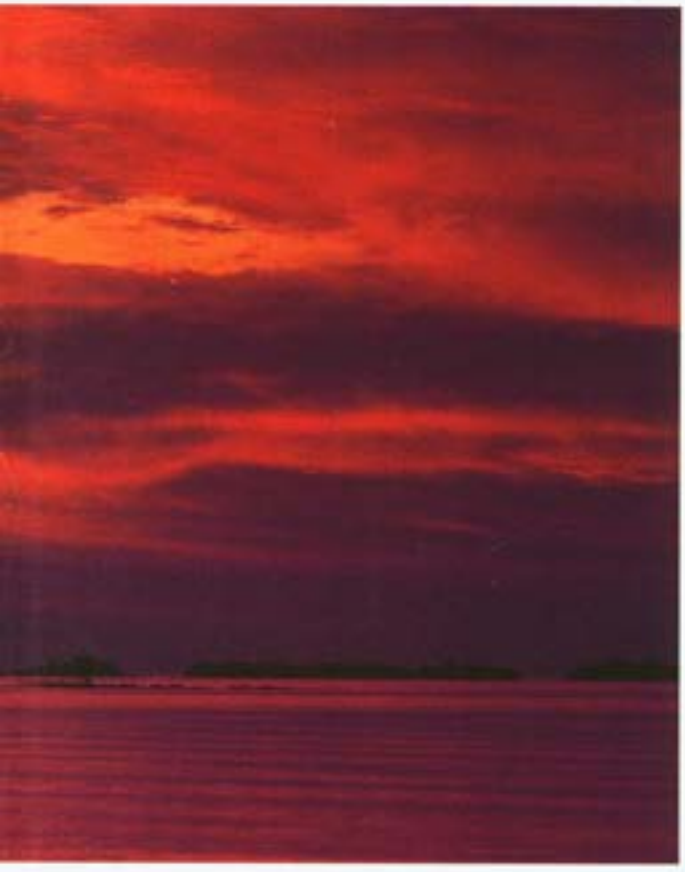
Canoeing Okefenokee Swamp, Georgia—March 22–27. From base camps on the east and west edges of the swamp, we will canoe different sections of the Okefenokee, exploring coastal prairies and cypress forests. Parts of the swamp were logged 100 years ago, but it has restored itself to its primitive beauty, providing habitat for birds, mammals, and reptiles (such as Pogo and friends!). This trip is for canoeists of all ages who enjoy birding, animal-watching, and photography. (Grade B) *Leader: Vivian Spiellbichler. Price: $295; Dep: $50.* **[92099]**

Springtime in the Delta, Louisiana and Mississippi—March 22–28. It's high-water time in the Louisiana bayous: Fresh green needles appear on the cypress trees; warm weather brings out birds, snakes, and alligators; and Cajuns are busy clearing their crawfish traps throughout the flooded forest. We'll meet in New Orleans and visit different regions by canoe and on foot. (Grade B) *Leader: Ernie Bauer. Price: $465; Dep: $50.* **[92100]**

Pictographs and Paddles, Boundary Waters Canoe Area Wilderness, Minnesota-Ontario Border, June 24–July 2. Greet summer in the Northwoods paddling the route of the fur traders. Our voyage takes us through a land of interconnecting lakes and rivers shaped by glaciers. After challenging days of portaging and paddling, we will hear stories of the French voyageurs, listen to the laughter of the loon, stalk wild moose, and enjoy the catch of the day. (Grade B) *Leader: Tom Sitzman. Price: $545; Dep: $100.* **[92384]**

Trinity River, California—July 26–31. We'll explore the Trinity River wilderness as it flows through valleys, canyons, and the Hoopa Indian Reservation on its way to the Klamath River. Our trip will offer swimming holes and the exciting challenge of whitewater for those who can handle a canoe in Class II to III water. (Grade D) *Leaders: Carol and Jim Malcolm. Price: $565; Dep: $100.* **[92385]**

Raquette River Sampler, Adirondack Park, New York—August 16–22. We'll tour the Raquette River from Blue Mountain Lake to Tupper Lake. Paddling 10 to 12 miles each day on lakes that offer views of the surrounding mountains—as well as on two meandering rivers—we'll carry our gear to different campsites most nights. A car shuttle midweek helps us avoid most portaging. (Grade B) *Leaders: Michael Blaschke and Edith Schell. Price: $205; Dep: $50.* **[92386]**



HISTORICAL LEADER PROFILE

MARION RANDALL PARSONS

Marion Randall Parsons was introduced to the Sierra Club by her friend Wanda Muir, John's daughter. She went on her first High Trip in 1903 and became a dedicated and enthusiastic participant for many years. She wrote many articles about the High Trips for the *Sierra Club Bulletin*, including this excerpt: "The Sierra Club has great and noble purposes…but besides these its name has come to mean an ideal to us. It means comradeship and chivalry, simplicity and joyousness, and the carefree life of the open." Through her writing, she helped to define the culture of outings, and she contributed to the Club's work in a variety of other ways as well. She was the Club's first lobbyist in Washington, D.C., lobbying for the enlargement of Sequoia National Park in 1920. Serving a total of 36 years on the Board of Directors, Marion Randall Parsons has the distinction of being the Club's first woman activist. A noted artist, Parsons also edited John Muir's *Travels in Alaska*.

Water

LEFT: ON THE NORTH FORK OF THE KOYUYKUK RIVER, GATES OF THE ARCTIC NATIONAL PARK AND PRESERVE; RIGHT: COMMON LOON.

North of the Border, Saskatchewan—August 17–26. Paddle and portage granite-clad lakes on the Canadian Shield. We won't see many people in the pristine pine and birch wilderness of northern Saskatchewan, but we will visit many loons, beaver, and moose. Nighttime entertainment is provided by the aurora borealis and the Milky Way. The only things biting will be fish. (Class B) *Leader: Joanne Broady. Price: $510; Dep: $100.* **[92387]**

Megiscane River, Quebec—August 23–September 5. Come canoe in a wilderness where moose are more common than people. Our 120-mile, 13-day adventure follows the broad Megiscane River (Class I) as it twists and flows through dozens of lakes in a heavily forested region. We have moderate portages, with one or two layover days scheduled. We access our put-in at Monet, via train from Senneterre, and end our trip at Lac Faillon. (Grade B) *Leaders: Herb Gordon and George Neffinger. Price: $710; Dep: $100.* **[92388]**

Algonquin Park, Ontario—August 30–September 5. Greet an early fall by canoeing in the Far North. Our voyage takes us through a land of interconnecting lakes and rivers shaped by the last glacial period. Along with challenging days of portaging and paddling, we'll hear the laughter of the loon, glide past lumbering moose, and perhaps hear the howl of the wolf. In the evenings we'll enjoy the beautiful Northern Lights. (Grade B) *Leader: Jim Lynch. Price: $440; Dep: $50.* **[92389]**

Bayous and Beaches, Louisiana and Mississippi—October 12–17. The bayou country in southern Louisiana is rich in wildlife, culture, and cuisine. First we'll explore a part of the Atchafalaya River Basin near New Orleans; then we'll canoe a beautiful stream through southern hardwood forest in Mississippi. Our trip ends on the white sands of Gulf Islands National Seashore. Our trip includes ample time to sample tasty local foods and southern hospitality! (Grade B) *Leader: Bill Carroll. Price: $390; Dep: $50.* **[92391]**

KAYAK

Blueberries and Mussels, Maine's Coastal Islands—September 27–October 3. Join us as we kayak the coastal waters of Maine. From Rockland in the south to Deer Island in the north, we will paddle the outer reaches of Penobscot Bay along portions of the Maine Island Trail. We'll explore uninhabited islands, hike hidden trails, and glide beneath stately lighthouses in the cool fall air. Carrying all our gear, we'll camp at primitive sites and enjoy one layover day. For experienced kayakers only. *Leader: Frank McDonough. Price: $755; Dep: $100.* **[92390]**

RAFT

Rogue River Benefit for Inner City Outings, Oregon—May 25–29. Spend five days rafting Oregon's Rogue River and help the Sierra Club's Inner City Outings program—all at a cost significantly less than a commercially available trip. This special outing, led by Sierra Club–trained whitewater guides, will take you down one of the premiere Class III whitewater runs in the West. Spend a leisurely five days floating the river, fishing, eating delicious meals, and paddling the exciting rapids. Learn about river ecology, local conservation issues, and the Inner City Outings program (see page 53). The trip price has two components: the cost for the trip and a suggested donation. *Leader: Bill Weinberg. Price $230; Dep: $50. Suggested Donation: $300.* **[92383]**

Note: See Alaska, International, Hawaii, and Service trips for other water outings.

CONSERVATION CHALLENGE

GLEN CANYON DAM WATER RELEASES HARMING GRAND CANYON

Water releases from Glen Canyon Dam are washing away the beaches, wildlife habitat, and ancient Indian ruins downstream in Grand Canyon National Park. The Bureau of Reclamation manages the dam, and has allowed power generation to dominate its operations. But the needs of the Colorado River's ecosystem should dictate when and how the dam is used since the dam is directly upstream from one of the world's greatest natural wonders and one of our nation's premier parks.

At present, hourly water releases from the dam are based on peak demand, determined by the utilities' needs, and thus can change dramatically throughout the day. The fluctuating release pattern is causing irreparable damage due to the sudden rise and fall of water (at times going up and down several feet).

What you can do: Write the Bureau of Reclamation and insist that the dam be operated in a manner that will best protect the resources of Grand Canyon National Park. Send your letter to: Bureau of Reclamation, P.O. Box 11568, Salt Lake City, UT 84147.

Also consider going on a trip to the Grand Canyon. For a listing of these trips see page 116 in the Geographic Index.

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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 the address below. 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 (with a maximum of $100 per family on family trips)*
$500 to $999	*$100 per individual*
$1,000 and above	*$200 per individual*

The deposit is applied to the trip price when the reservation is confirmed. All deposits and payments should be in U.S. dollars.

Payments: Generally, adults and children pay the same price; some exceptions for family outings are noted. You will be billed upon receipt of your application. Full payment of trip fee is due 90 days prior to trip departure. Trips listed in the "International" section require additional payment of $300 per person six months before departure. Please note that payments are due at the above times, regardless of your leader-approval status. If payment is not received on time, the reservation may be canceled and the deposit forfeited.

No payment (other than the required deposit) is necessary for those waitlisted. The applicant will be billed when placed on the trip.

The trip price does not include travel to and from the roadhead or specialized transportation on some trips (check trip brochure). Hawaii, Alaska, and International trip prices are all exclusive of airfare.

Transportation: Travel to and from the roadhead is your responsibility. To conserve resources, trip members are urged to form carpools on a shared-expense basis or to use public transportation. On North American trips the leader will try to match riders and drivers. On some overseas trips you may be asked to make your travel arrangements through a particular agency.

Infrequently the Sierra Club finds it necessary to cancel trips. The Club's responsibility in such instances is limited in accordance with the Trip Cancellation Policy. Accordingly, the Sierra Club is not responsible for nonrefundable airline or other tickets or payments or any similar penalties that may be incurred as a result of any trip cancellation.

Confirmation: A reservation is held for a trip applicant, if there is space available, when the appropriate deposit has been received by the Outing Department. A written confirmation is sent to the applicant. The reservation is confirmed subject to the leader's approval. If there is no space available when the application is received, the

For More Details on Outings

Outings are described more fully in trip brochures, which are available from the Outing Department. Trips vary in size, cost, and the physical stamina and experience required. New members may have difficulty judging which trips are best suited to their abilities and interests. Don't sign up for the wrong one! Ask for the trip brochure before you make your reservations to save yourself the cost and inconvenience of changing or canceling 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 brochures for the following trips (order by number):

#_____ #_____ #_____

Enclosed is $_____ for extra brochures at 50 cents each.

DO NOT MAIL CASH. **#0**

Clip coupon and mail to: **Sierra Club Outing Department,** 730 Polk St., San Francisco, CA 94109

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; ph. 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.

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 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 assistance 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.

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.

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

Mail checks and applications (excluding those sent by express mail) to:
Sierra Club Outing Department
Dept. #05618, San Francisco, CA 94139

Mail all other correspondence (including express-mail applications) to:
Sierra Club Outing Department
730 Polk St., San Francisco, CA 94109

MT. ANSEL ADAMS
IS THE HIGHEST PEAK IN
THIS PHOTOGRAPH OF THE LYELL
FORK OF THE MERCED RIVER,
YOSEMITE NATIONAL PARK,
SIERRA, 1930.

"We had quite a rough time getting over the old Isberg Trail to the Lyell Fork Canyon, and then going a mile across country upstream to the big meadow, where we camped and then made ascents of Mount Lyell from the south and Rodger Peak. Everybody just loved it. They climbed a little crag that leads out from Electra Peak and put a receptacle on it and called it Mount Adams. It can't be called that as long as I'm around—you can't name peaks after living people. The receptacle may still be there. I had nothing to do with it personally!"
—Ansel Adams, *Conversations with Ansel Adams*

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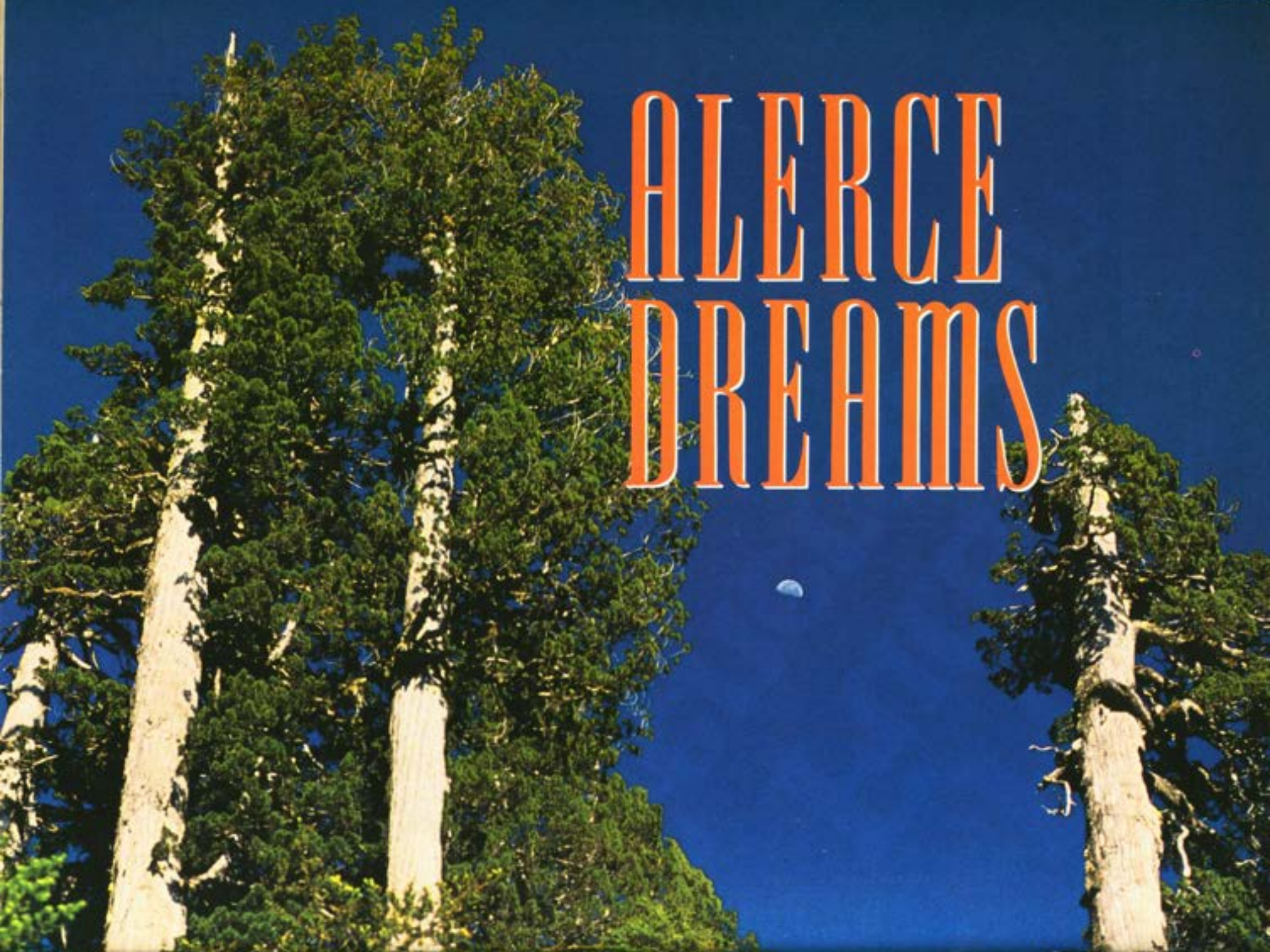
ALERCE
DREAMS

DOWN PATAGONIA WAY GROWS AN ANCIENT CONIFER THAT CHILE'S MAPUCHE INDIANS CALL "THE TREE THAT LIVES BEYOND LIFE." SADLY, THE TIMBER INDUSTRY'S QUEST FOR PROFITS MARKS THE TREE FOR DEATH.

Some 650 miles below the bustle of Santiago, at the southern extreme of Chile's lake-dotted central valley, Puerto Montt fronts a bay squeezed between the Andes and a range of low mountains bordering the Pacific. The countryside surrounding the town at first appears pristine, with a thick, yellow-gold carpet of *chacai* shrubs rolling away for miles, pulling up short at the foot of the snowcapped volcano squatting in front of us like a sugar-topped cake. Children of local peasants, in orange-and-black ponchos, ride by on horseback. Other campesinos trundle along in rough-hewn ox carts. Alongside us, salmon teem in the salty Lenca River. Poplars strain in a permanent hunch toward the elusive sun.

A visitor might think little had changed here in a century, but an important detail is missing from this pastoral scene: giant alerces, trees as soul-stirring as any on Earth.

First described by Charles Darwin, the conifer species received its Latin name, *Fitzroya cupressoides*, in honor of Captain Robert Fitzroy of the HMS *Beagle*, the ship that brought Darwin to this region of Chile in 1834. At that time, alerces (ah-*lair*-says) blanketed this valley and the surrounding mountains; now, highly coveted for its fine-grained, water-resistant wood, the species survives mainly

BY MARC COOPER

in isolated pockets among other conifers and broadleaf trees.

Less than 1,000 square miles of alerce habitat remain intact, mostly in Chile and a small portion of Argentina. The trees hide out either in mountain valleys at elevations of up to 4,000 feet or in out-of-the-way lowland stretches. "Patagonian cypresses," as some reference books call the alerces, may reach heights of more than 160 feet and measure up to 30 feet in diameter. Some specimens, estimated to exceed 4,000 years of age, have roots as ancient as Babylon; among all life forms, only the most grizzled of North America's bristlecone pines are older.

Since 1976, Chilean law has prohibited the cutting of alerces; trees that were dead prior to the law's passage, however, can be logged. Because trees

STEVE GARVIE

Perverting Chile's forestry law, loggers often set fire to alerce forests, then harvest the dead trees.

▲▲▲

are stripped and split in the forest before going to the sawmills, in lumberyards it is often difficult for inspectors to determine if products made from the alerce's reddish wood—roof shingles, moldings, and beams—have come from trees extracted legally. Sometimes living trees are set afire to burn off the bark while leaving the heartwood intact, making it appear as though nature, not loggers, had killed them. Other tree-cutters, apparently misinterpreting the language of the alerce law, assume that *any* alerce dead *of natural causes may be cut, not just* those that died before 1976. Occasionally poachers cut living trees and cover the stumps with bark and debris to avoid aerial detection. With a pitifully underfunded Chilean forestry department (the National Forest Corporation, or CONAF) unable to police the timber industry effectively, and with Chilean courts unwilling to punish firmly the few financially powerful loggers who are caught illegally cutting the giant cypresses, poaching of the alerces continues unchecked. The scofflaws operate with such impunity that their illegal cutting has extended into Chile's own Alerce Andino National Park, which precariously shelters about 18 percent of the country's remaining alerces.

In short, the 16-year-old legislation designed to protect *Fitzroya cupressoides* has a loophole big enough for more than a few lumber trucks to drive through—including, I suspect, some of those that come barreling past the car I'm riding in. A group of environmentalists is taking me east toward the Andean foothills to visit the trees. So far, the only alerces in view, apart from those chained to the truck flatbeds, are stumps dotting ravaged hillsides. Near the town of Lenca we pass a century-old church made entirely of the precious red lumber. Later we visit a timber company's guest mansion, also 100-percent alerce. Only then do we see our first living trees: a couple of three-foot sprigs planted in the mansion's ornamental garden.

Rick Klein, a 45-year-old Californian and full-time old-growth activist with whom I'm spending the day, has made it his life's mission to save Chile's relict alerce forests. He assures me that healthy stands of *Fitzroya* do exist, though they're hard to reach. I am accompanying him, along with José Mercado, an agent of the Chilean Forestry Service, and Nicole Mintz, a Californian who has lived in Chile for the past 16 years, on one of his periodic survey treks into alerce habitat.

Klein, who was a forest ranger in Chile for two years during the mid-1970s, knows only too well how difficult it has become to see the venerable giants. During his forest-service tenure in southern Chile, he heard about the trees, but never saw more than their stumps. Obsessed with finding live specimens, he returned to the country in 1987 and located a guide to take him into the recently established Alerce Andino National Park. Upon entering an alerce grove with its shafts of filtered light after a 12-hour hike, he was told by his companion, José Navarro (who had designed the first trail into the park), that he had just become the ninth non-Indian to enter that forest.

"Maybe one out of 10,000 Chileans has ever seen a living alerce," says Klein as we bump along in Mercado's four-wheel-drive Daihatsu. He adds that the figure could be as low as one in 50,000. Only a concerted action by conservationists within and outside Chile, says Klein, can save the trees. That's why he founded Ancient Forest International (AFI), based in Humboldt County, California, and assisted in the formation of an affiliated group, the Lahuen Foundation (*lahuen* is the Mapuche word for alerce). Nicole Mintz is a Lahuen board member.

These sibling groups, on shoestring budgets, are undertaking a grassroots quest to purchase and protect some of the last alerce forests on private property near the national park. The timber stands occur in places so rugged and isolated that logging is not an immediate threat: It would require helicopters or expensive investments in roads and machinery. Their inaccessibility gives landowners an incentive to sell the holdings to conservationists; purchasing these areas, Klein says, is a crucial first step in achieving the Lahuen Foundation's goal of turning the imperiled Chilean forests into an independently financed preserve—what Klein

calls an "Ancient Forest World Park."

To generate international support, Klein has led three major AFI expeditions to the alerce forests. No longer can it be claimed that only a handful of nonnatives have ever seen an alerce: Hundreds of North Americans, accompanied by Chilean ecologists and environmental activists, have hiked and climbed with Klein into the mountainous areas of Cahuelmo and Pata Mai to experience the giant trees for themselves. Our little group is only the latest to seek out one of the groves.

Forester José Mercado, who had promised us "something special," is driving me, Klein, and Mintz to Predio Lenca, a steep chunk of privately owned forest two hours southeast of Puerto Montt. Our vehicle slowly ascends a twisting logging road, but just ten minutes above the main highway we find a locked gate in our way. "Typical," exclaims Mercado in disgust. "This gate is supposed to be open so we can inspect at will. Here you see the arrogant attitude of the loggers."

Mercado decides we'll continue on foot. Setting a stiff pace, he leads us into the fringe of the forest. Several hours up the road, native bamboo sprouts like a curtain along a rushing creek to our left. To the right, under myrtle and cinnamon (trees considered sacred by the Mapuche), spread masses of ferns among rocks covered with a rust-colored moss. The gravel road turns to mud.

"There they are!" shouts Klein at last, as if he's spotted long-lost friends. And there, indeed, 50 yards to our right, are my first alerces. Craggy, with reddish, furrowed bark and thick trunks around which whorl large branches, the trees taper toward the top. They remind me of California's coastal redwoods in their imposing stature. Then I see something else that brings the redwood forests to mind: In front of us stands a ten-foot-high stump. We measure its diameter at more than 12 feet.

"Let's keep going," says Mercado. "There's still something I want to show you." I look ahead of us across a valley and see the mist-covered, snow-flecked inclines of the Andes. "That's where the virgin cathedral groves of alerce are," Mercado says. Reading my apprehension—I'm not prepared for a three-day hike in near-freezing temperatures—Mercado laughs. "We're not going there. It's inaccessible this time of the year. Just follow me another half hour."

The air has become cooler, and the ground has softened to ankle-deep mud. We come upon an abandoned campsite where a hatchet sits next to stacks of alerce roofing shakes. Following Mercado down a watercourse, we enter a humid green pocket carpeted with bracken and jumbled logs, surrounded by assorted broadleaf and evergreen trees and presided over by a grove of alerces. "We're here," he says a few minutes later. He stops at a grayish stump cut perhaps a decade ago, big

Among ancient alerces

Destined for Asian pulp mills, chips from pine, eucalyptus, and Chilean hardwoods wait dockside in Puerto Montt, soon to be loaded into the belly of a cargo ship.

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enough for three of us to stand on, and points down a slope. We see two freshly cut, still-reddish stumps, each about five feet in diameter. They have been marked on their sides with spray-painted orange X's.

"This is the illegal cut I wanted to show you," Mercado says as he directs us downhill to yet another stump, this one eight feet across. "We found this site three weeks ago after a surprise inspection. These trees were all recently alive."

In a ravine sprawls a fallen log, 80 or 100 feet long. A 20-foot section has been all but excised, like entrails torn away by buzzards. Only a mush of chips and chunky splinters remains. The middle section of the tree has been split and its heart carried away. Next to the stump lies the broken chain of a power saw.

"This is nothing short of a crime," Mercado says, surveying the scene. "This tree is at least 1,000 years old. They took 60 other trees just like this from here. Look, they're still green," Mercado adds, pointing to the needles on the broken limbs. "The companies have no fear. They just cut what they want. We fine them twice the commercial value of the wood. But by the time they get to court, the fines are reduced to nothing."

Mercado's anger is shared both by Klein and by many Chilean environmental activists. They see the unchecked poaching of alerces as indicative of a larger societal problem in Chile: the scandalous disregard for the integrity of natural ecosystems. Not only are alerces being cut for construction materials, but other tree species that share their habitat—broad-leaved trees and conifers—are being felled and dragged off to chipping machines, eventually becoming pulp for making fax and copy paper.

"Here we have one of the rarest temperate rainforests on earth," Klein says as we warm ourselves in a Puerto Montt hotel lobby that evening. "But the ecosystem is in mortal danger."

Despite that disturbing prognosis, Chilean industry keeps steadily grinding out profits from trees. For confirmation, it's enough to look from our hotel patio at the steaming mountain of wood chips being loaded from the docks of Puerto Montt onto Japanese freighters. Chile's forest-products industry, which was slumbering just 20 years ago, has become one of the nation's most important sources of foreign currency. Japanese and New Zealand capital has been pouring into the burgeoning Chilean wood industry. Ten chip conglomerates currently operate in Chile. New cellulose plants are under construction and new embarkation ports are being designed.

The result of such massive chipping, ecologists say, is that five Chilean tree species are on the verge of extinction and 26 others are vulnerable. A study by the Chilean Committee in Defense of the Flora and Fauna (CODEFF), the country's oldest and largest conservation organization, projects that as much as one-half million acres or more of native forest will be chipped in the next decade.

But even that figure does not convey the full impact of chipping on forest ecosystems, because it does not account for the toll taken by plantations of imported Monterey pine and eucalyptus, which have already eaten up another million acres of native forestland, replacing diverse habitats with monocultures. Boosters of the forest-products industry talk about using as much as one-sixth of Chile's entire national territory (the northern half of which is already a desert) for commercial logging.

To discover how Chile's forestry boom developed, one has only to examine the economic strategies embraced by the military dictatorship of General Augusto Pinochet, who took power in 1973. As part of its program to privatize state-controlled lands and industry and encourage the export of raw materials to the developed world, the regime passed Decree Law 701 shortly after coming to power. Under the terms of the decree, government land and collective farms created by the previous democratic socialist administration were sold off at rock-bottom prices, and $75 million in state subsidies were paid out to build up a wood and cellulose export industry. Timber companies were essentially paid by the

state to burn down or clearcut native woodlands to make room for pine plantations. At the same time, with many unions outlawed and wages held down by executive fiat, timber companies could produce their products cheaply and successfully compete in the world market.

As the Pinochet government was proud to point out, and as the recently elected civilian administration of President Patricio Aylwin continues to boast, Chile's "macro-economic indicators" are a bright exception to the continent's gloomy financial status. But the price of Chile's export boom has been a full-scale ecological disaster.

"The previous government simply had *no* environmental policy," says Luis Alvarado, Minister of Natural Resources and head of the newly created Inter-Ministerial Environmental Commission. He laments that the country has been left stranded with "no environmental standards, no regulations, no prohibitions." He cites among the consequences a pulp-processing industry that dumps a huge quantity of toxics into rivers and lakes, and a timber industry that has accounted for the loss of about 4 percent of Chile's native forests every year for the last three years.

Whenever his ministry challenges the timber industry on harvest plans, Alvarado says, the matter winds up in court on technicalities. And the legal system in Chile, as the minister knows, is stacked with supporters of the deposed dictatorship. "We go into those courts," complains Alvarado, "and we put forth arguments about worldwide genetic reserves, about the importance of preserving old growth, and the answer we inevitably get back is that we are infringing on the rights of private property."

The inability of the new civilian government to clamp down on overcutting has led Ancient Forest International and the Lahuen Foundation to the strategy of directly purchasing the forests and preserving them as parklands.

"Political or governmental solutions are just too unstable and insecure," says Lahuen's Nicole Mintz. She points out that the law protecting alerces is a presidential decree that could be reversed with one stroke of the pen by any future administration. Creating privately financed parks, she believes, is the only realistic hope of preserving alerce habitat.

While Rick Klein is uncertain how AFI and the Lahuen Foundation will go about raising money for the proposed Ancient Forest World Park, he's clear on where it should be: He envisions a protected area extending from Cahuelmo Fjord, which cuts into Chile at its narrowest point, to a volcanic region called Pata Mai some 100 miles to the north.

"The Ancient Forest World Park will cover one side of the continental divide," Klein speculates, "from the peaks of the Andes to the Pacific coast for a length of 30 miles." Alerces make up as much as 20 percent of the forest in the Cahuelmo area, and Pata Mai, though extensively clearcut in places, contains

Sawmill-bound from the Andean foothills, a truck ferries alerce logs whose origins are unlikely to be questioned.

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one of the few pure alerce forests still in existence. Klein describes Pata Mai as a little-known, mostly trackless expanse of relatively gentle terrain, with as many as 40,000 acres of alerces averaging more than 2,000 years old.

AT SOME POINT, IT MUST BE ASKED IF AN Ancient Forest World Park is feasible as proposed, or whether it is merely the pie-in-the-sky dream of a Northern California counterculturalist. On the giant scale he imagines, Klein's park scheme at first seems unrealistic, since aspects of it would face stiff opposition from powerful timber interests. But expansiveness is Klein's *forte*, and local Lahuen Foundation activists seem keenly aware that Klein's most productive role is that of motivator or, as some would say, visionary. Even so, they agree that his role should be limited to fundraising abroad, leaving Chileans to conduct their save-the-alerce campaign.

Indeed, the grueling work of organizing, consciousness-raising, and lobbying inside Chile has long been carried out by Chilean environmentalists. Even under the Pinochet regime, which never hesitated to use physical force against those who got in its way, environmental activists managed to score important victories.

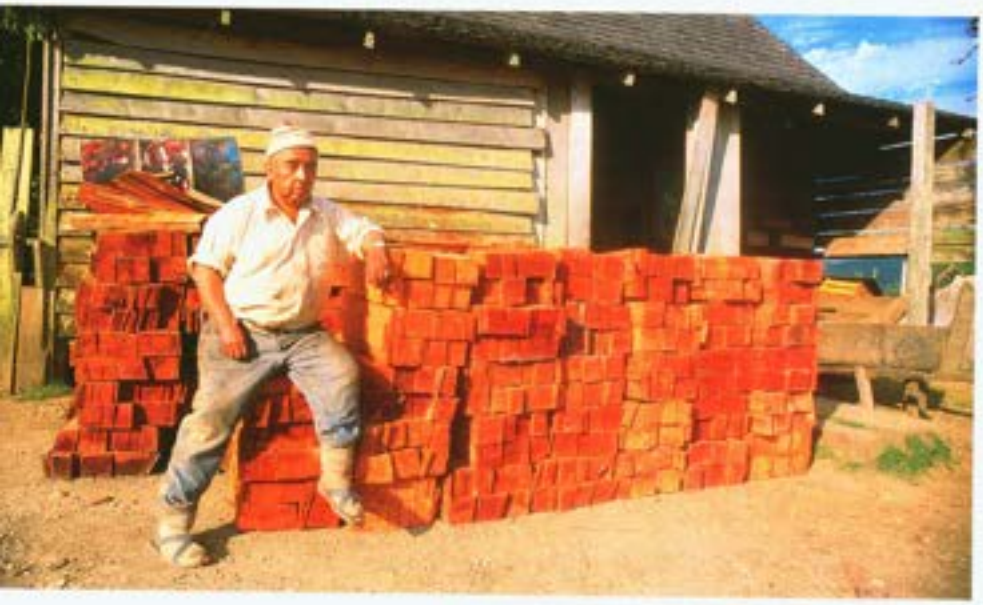
Perhaps for that very reason, some Chilean conservationists have taken issue with the way Klein and AFI operate in Chile. In 1990 Antonio Lara, project director of CODEFF's alerce-conservation project, complained that AFI was garnering a great deal of publicity about its role in trying to save the alerces while failing to give CODEFF proper recognition. Lara's team had produced impressive statistics and scientific analyses of the threat to the alerce's habitat, and used its findings to lobby for reform of the timber industry. But Lara's cautious work began to be upstaged when the more flamboyant Klein appeared on the scene. "AFI has started to shift toward a colonialist or imperialist style of doing conservation in Chile," Lara complained to Klein in late 1990. He insisted that Klein and AFI recognize that "the main actor's role has to be played by the Chilean organizations."

But a core group of CODEFF members, including some of the country's most respected environmentalists, embraced Klein's public-relations and fundraising strategies. They felt CODEFF was too lethargic and ineffectual, and that its elite traditions led it to be too chummy with the Chilean Forestry Service. Many who had been wandering for years in an organizational desert, searching for some inspirational way to work together, were galvanized by Klein's group. To them, AFI was far more aggressive and political than CODEFF. Using AFI as a model, they broke from CODEFF to form the Lahuen Foundation, collaborating with Klein in the process.

Still, some tensions persist even among the cooperating North and South Americans. During an AFI-sponsored hike to the alerces in 1990, some of the Chileans in the group informally dubbed their base "Camp Noriega" in protest of the U.S. invasion of Panama. A few of the U.S. members of the delegation took heated exception to the criticism of President Bush's action.

"The United States doesn't have the best of historical records in Latin America," says one Chilean activist. "When you talk about Americans coming down to save *our* forests, you have to be careful and very sensitive. So far things have worked well. But there are built-in obstacles and imbalances."

Members of the Lahuen Foundation think a workable north/south equilibrium has been reached, and they



A Puerto Montt vendor (above) displays the water- and rot-resistant red wood that makes alerces much sought after. The shingles he has wrought from alerce timber will eventually be used as roofing and siding, such as that adorning a local church (right).

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Alerce habitat high in the Andes

firmly believe that, with their organizational skills and a good measure of luck, their wide-screen vision can materialize. They have reason to be optimistic: Their efforts have so far attracted substantial financial support from at least two environmentally conscious U.S. corporations, Esprit and Patagonia, and from the Weeden Foundation. The Sierra Club's International Program and Earth Island Institute's International Green Circle have also weighed in, helping to spread the word about Chile's endangered alerces. Such efforts appear to be paying off: In September, Chile's Foreign Investment Committee voted to prohibit foreign timber companies from purchasing much of the remaining alerce forests, while holding that option open for foreign conservationists.

In the grimy industrial hinterland on Santiago's south side sit the offices, warehouse, and yard of the Acza Lumber Company. It's the same company that runs a display ad three times a week in the daily *El Mercurio* containing only the word "Alerce" accompanied by an address and telephone number. The ad must draw a good response: While Chilean law forbids the export of the wood, and international convention proscribes its trade, research by CODEFF indicates that a large volume of Chilean alerce is regularly imported by foreign nations, principally Argentina, Australia, New Zealand, and Spain. And the domestic sale of legally cut alerce is completely unrestricted. Nor do lumber retailers have any obligation to ask their suppliers where the precious reddish timber originated. And those retailers, like Acza, have been doing a brisk business. The laissez-faire economic policies of the past and current governments have conjured up an entire class of nouveau riche entrepreneurs who populate the tony new neighborhoods of La Dehesa and Santa Maria de Manqueque on the capital's still-bucolic northeastern border. Expansive, seignorial mansions line the parklike avenues of those neighborhoods. There the only status symbols that rival ten-foot parabolic dish antennas are pure alerce shake roofs, exposed alerce eaves and sidings, or alerce bathroom moldings and cabinets.

On the Acza Company premises I see tons of alerce. No cathedral groves, of course, not a single tree or log—just bin after bin and shelf after shelf of alerce roof tiles and shakes, door frames, bathroom moldings, baseboards, lathed door jams, flexible, thin strips used to make window curtains, and boards selling for about $25 each in an economy where more than half the population makes less than that in a week of work. When I raise my eyebrows at the cost, the salesman upbraids me. "I know you think that's expensive," he says. "But do you know how long it takes before an alerce is mature enough to cut? It takes more than 500 years. What did you expect to pay?" ■

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►*For more information, see "Resources," p. 149.*

UNBROKE

For sixty years, activists have come to the Highlander Center to learn its simple lesson: They are not alone, and they can win.

On a warm spring day, we sat on a hillside in eastern Tennessee planning a racetrack for Foolsville. We were strangers to the town, a corporation from elsewhere. We wanted the community to approve our speedway, so we listed its selling points: a boost to the local economy, increased tax revenues, and, of course, jobs—hot-dog vending, gas pumping, T-shirt selling.

If the Foolsville folks had worries about our operation, we'd assure them that *we* would be environmentally correct. We'd even recycle; in fact, our speedway would be paved with incinerator ash. If anyone mentioned the noise the Foolsville 400 might stir up in the night, we'd just say, "Vrroom-vrroom—the sound of prosperity."

Thus we laid our plans. Then we went back into the big cir-

BY CAROL POLSGROVE

N · CIRCLE

ILLUSTRATION BY JEFFREY J. SMITH

cular conference room of the Highlander Center and tried to sell our racetrack to the Fools.

Other groups came in from the hillside to pitch their schemes as well. One proposed a fish farm supplied with radioactive wastewater (bigger fish!), another a LeadBetter plant ("Better Lead Than Dead!"). All agreed that there would not, unfortunately, be an opportunity for the public to respond to the plan at this time. Whatever the proposition, reassurance reigned: Not a petal would fall from the splendid rose of your community as a result of the new industry.

Our role-playing embodied what we had been talking about for the last day and a half at the "STP" environmental workshop at Highlander, the nation's preeminent school for grassroots organizers. (No one at Highlander would say as much themselves, of course; an endearing hallmark of the center is its institutional bashfulness.)

"STP," we learned, is a flexible acronym that can stand for just about anything you have in mind: Stop the Poison, Save the Planet, or, as things lighten up in the evenings, Start the Party. The theme of the workshop, however, was fixed: how and

why corporate polluters bulldoze communities—both literally and figuratively—and what ordinary citizens can do about it.

While participants in our workshop shared an often bitter familiarity with the slick public-relations ploys of industrial developers, we had little else in common. Our number included a contractor from north Georgia, a retired farm couple from Kentucky, a beautician from Tennessee, a housewife from Virginia, and a Hispanic preacher from Texas.

In the past two years, more than a thousand activists have come to Tennessee to attend these free workshops. Larry Wilson, director of the STP program, claims to detect the stirrings of a grassroots environmental movement "of revolutionary proportions." Before convicting him of exaggeration, remember that it wouldn't be the first such movement Highlander has helped launch.

For more than a half century, the Highlander Center has been midwife to a vigorous brood of social movements—first organized labor, then civil rights, then the anti-poverty crusade in Appalachia. Martin Luther King, Jr., came here; so did Rosa Parks before she refused to move to the back of that bus. More recently, Earth First! activist Judi Bari visited Highlander before organizing Redwood Summer.

For such an eminent institution, Highlander is remarkably unassuming. You turn off a narrow, twisty road onto a gravel drive and there it is: a handful of small buildings scattered across a green hillside facing the Smoky Mountains. Highlander is still modest after all these years partly because its staff has wanted it so. Myles Horton, the man who started the school in 1932, never liked bureaucracy—a good way to kill democracy, he thought.

There are no teachers here, no textbooks, tenure, lectures, or syllabi. Highlander is more a method than anything else, a process whereby social-change activists learn from each other. Horton believed that for people to see their own lives and struggles in a new light, they need to set themselves apart for at least one full day, from rising to sleeping, and tell each other their stories. Out of the tales of victories and defeats, he learned, an almost religious faith is forged: an assurance that however mighty are the forces arrayed against you, they can be overcome.

In the beginning, in the 1930s and '40s, Highlander worked with the young labor-union movement. It was, for a while, the official school for CIO organizers in the South—until the CIO banned Communists from holding union office, a policy that went against the center's beliefs. Highlander would let in anyone with a reason to be there—Communists, Christians, or, in the case of some of the early union organizers, Klansmen.

Then came the civil-rights movement. Blacks and whites had always sat down to eat together at Highlander, even before that was legal in Tennessee. Highlander was soon holding "Citizenship Schools" across the South so that blacks could learn to read and pass poll tests. When the Citizenship School program got too big for Highlander, it was passed on to Martin Luther King and the Southern Christian Leadership Conference. Another arm of the civil-rights movement, the Student Nonviolent Coordinating Committee (SNCC), was started by people who had studied with Horton. The song "We Shall Overcome" was popularized by Zilphia Horton, Miles' wife, and spread throughout the South.

All this activity coming out of the Tennessee mountains did not go unnoticed. In the mid-1960s billboards appeared along the highways, showing a picture of "Martin Luther King at Communist Training School." When Myles Horton introduced Rosa Parks to Eleanor Roosevelt, the former first lady was surprised to learn that he had never warned Parks that she would be red-baited. "If I'd known she was going to start the civil-rights movement," Horton said, "I'd have told her."

In 1961, the state of Tennessee found a pretext to close Highlander and confiscate its property. The school moved to an African-American community in Knoxville, where it survived, with the protection of local labor unions, ten years of firebombing attempts and shootings. Finally, it moved to its current home a half hour's drive east of the city, in the foothills of the Appalachian Mountains.

The Appalachians are a good place to come for a reminder of the power of greed. For the past century, Appalachia has been a treasure chest for outsiders, who bought it and stripped it, first of trees, then of coal. The people who were persuaded—or forced—to sell their land wound up squeezed into narrow valleys, in rented houses on rented land, at the mercy of the floods and landslides that poured into the hollows from the denuded mountains.

A lot of Highlander's anti-poverty and anti-strip-mining work in the 1960s and '70s was really environmental organizing, although they wouldn't have called it that then. Now they do, and the new work is so like the old union and civil-rights schools that one can feel the spirits moving around Highlander's famous circle of high-backed wooden rockers, set in the circular conference room with its picture windows looking out on the Smokies.

Our STP workshop, like other Highlander sessions, was deceptively simple. We started out going around the circle, speaking of our hopes, our fears, and

Martin Luther King, Jr., came here; so did Rosa Parks before she refused to move to the back of that bus.

Highlander's role in the civil rights movement made it a target of repeated firebombings and shootings.

our personal victories. It was pleasant to have a long conversation with so few attempts at one-upmanship. By the end of the third round, mutual respect had settled down on the room like an old, familiar quilt.

The next day the discussion turned outward. Who benefits from pollution? What are the barriers to change? What tactics are being used against us? Where may the opposition be vulnerable? What can we do?

Along with other African-American leaders, Irma Parmes has been trying for 16 years to clean up pollution in South Chattanooga. "All our schools were built on Chattanooga Creek with that sweet aroma," she said. "Now they're closed because the kids inhale all of this stuff. That's because we had the wrong persons representing us on the boards. Everybody trying to feather their nests and forgetting about the welfare of the community."

It was Parmes' first visit to Highlander. "I love this procedure," she said. "You don't sit and listen to just one person. Everybody is involved."

A major concern of participants in Highlander's environmental workshops has been the connection between polluting industries and the agencies charged with regulating them. In the experience of many who have tried to fight off polluters, government has acted as the servant of business, beguiling communities into believing they are being protected, tricking them into thinking they have a say in the process when in fact they do not.

As the conversation went around our circle of chairs, we plucked further strands from the web of deceit: scientific experts who testify at hearings, the medical industry, the media, the schools, occasionally even the big environmental groups, which some viewed as helping to prop up a failing regulatory structure.

An awareness grew: The whole system needs changing.

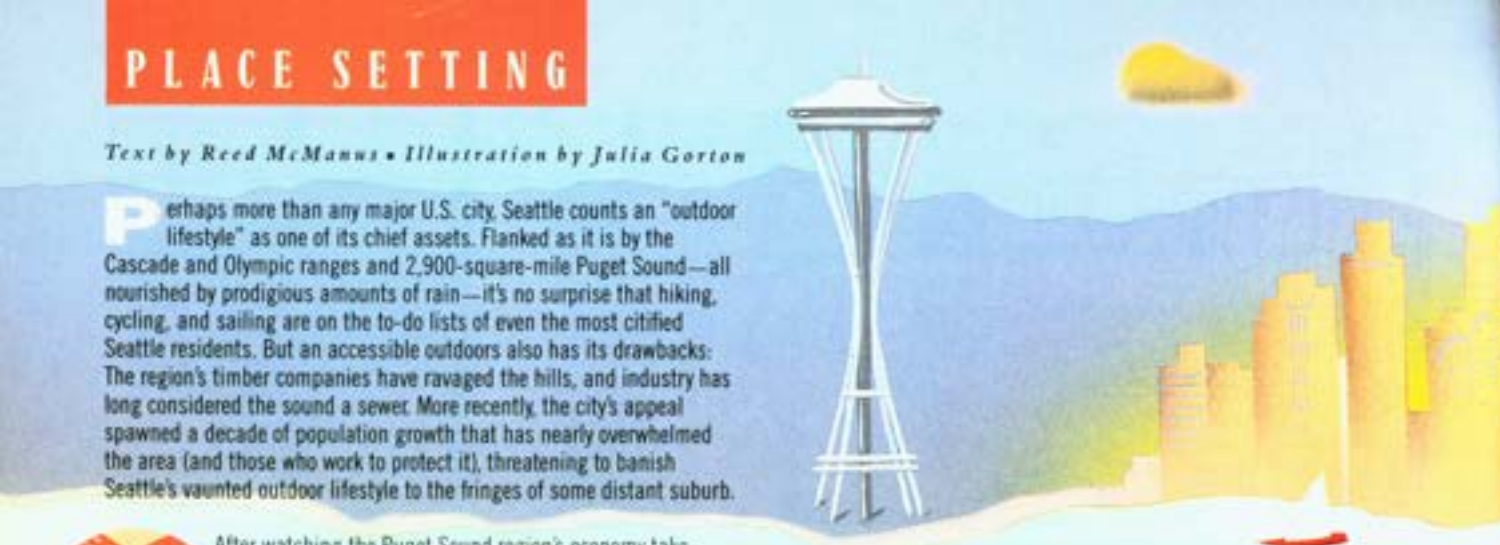
LARRY AND SHELIA WILSON GOT INVOLVED WITH HIGHLANDER when they tried to clean up Yellow Creek, the tannery-contaminated river that used to run foamy purple down their green Kentucky valley. Throughout their ten-year struggle with the tannery and indifferent local officials, Highlander helped out by putting them in touch with useful experts, showing them how to set up computer files, even raising money to send a busload of Yellow Creek activists out to a town in Missouri that was also battling a leather tannery. Now it is the Yellow Creek Concerned Citizens who are the experts, and communities with tannery problems call *them*. Highlander had turned its participants into resources.

Larry and Shelia joined the Highlander staff; Larry now runs the STP program. "This goes way beyond the environmental movement," he says. "These folks are talking about justice, they're talking about democracy, they're talking about economic change, about economic stability. They're

Continued on page 140

PLACE SETTING

Text by Reed McManus • Illustration by Julia Gorton



Perhaps more than any major U.S. city, Seattle counts an "outdoor lifestyle" as one of its chief assets. Flanked as it is by the Cascade and Olympic ranges and 2,900-square-mile Puget Sound—all nourished by prodigious amounts of rain—it's no surprise that hiking, cycling, and sailing are on the to-do lists of even the most citified Seattle residents. But an accessible outdoors also has its drawbacks: The region's timber companies have ravaged the hills, and industry has long considered the sound a sewer. More recently, the city's appeal spawned a decade of population growth that has nearly overwhelmed the area (and those who work to protect it), threatening to banish Seattle's vaunted outdoor lifestyle to the fringes of some distant suburb.

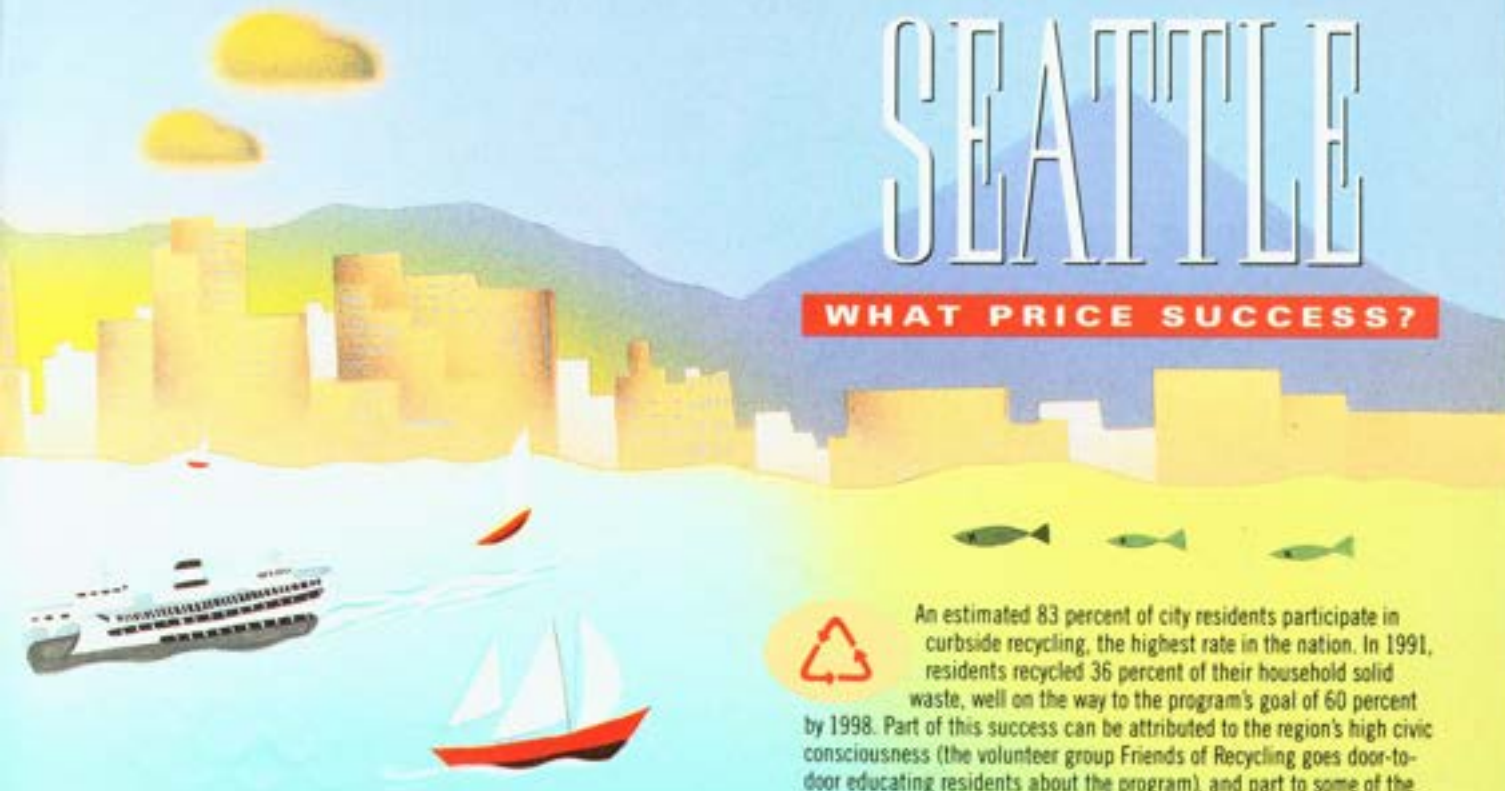
After watching the Puget Sound region's economy take a nosedive in the early 1970s, locals realized they could no longer rely on fishing, logging, and aerospace giant Boeing (the area's largest employer) to determine their collective fate. They set out to diversify the economy—and may have succeeded too well. In the 1980s, Boeing got back on its feet (it now has a $100-billion backlog of orders) and technology entrepreneurs started settling here (homegrown Microsoft is the world's largest software manufacturer). Seattle took advantage of booming Pacific Rim trade (it is the U.S. port closest to Japan), and the sleepy city of half a million people began to look like a cash-rich company ripe for corporate takeover. Seattle was hailed by dozens of publications as the place to live, and the metropolitan area's population soared by 21 percent to more than 2.5 million. ■ No one had planned for the flip side of success. Subdivisions marched into the Cascade foothills, housing prices skyrocketed, cars clogged the freeways (Interstate 5 downtown is the sixth most congested roadway in the country), and air pollution began obscuring the views that residents patiently wait through months of winter drizzle to witness. *Money* magazine dutifully recorded the changes, downgrading Seattle's "most livable" status from number 1 to number 49 in just two years.

Washingtonians haven't been sitting on their hands. As early as 1968, residents of Seattle's King County voted to tax themselves for huge civic improvement projects, including $65 million for parks; they followed up with a farmland-preservation ordinance a decade later. In that tradition, in 1989 the city's voters imposed limits on the size and height of downtown buildings, and the county scrambled to pass a greenbelt-acquisition bond. The state jumped aboard with $53 million for the purchase of wildlife and recreation lands, and a year later passed legislation mandating that populous counties adopt growth-management plans (but not necessarily enforce them, environmentalists point out). Population stability is considered essential to urban environmental health; while the region recently hit an economic "plateau," its population is expected to rocket 40 percent to 4.4 million by 2010.

Despite its arresting beauty, Puget Sound has been the final resting place of effluent from mills, factories, and sewage plants for nearly a century. Superfund sites dot the sound like sailboats; among them is Elliott Bay, the centerpiece of Seattle's waterfront. While obvious violators have been whittled at for years, much pollution now comes from hard-to-target sources—airborne contaminants such as auto exhaust, in addition to agricultural, logging, and stormwater runoff. The most recent Puget Sound management plan calls for more than $325 million to be spent through 1997 to clean up the estuary. Its goals are impressive, but past attempts have been woefully underfunded. Although more than half of the sound's wetlands have been filled, four years of legislative wrangling have produced no wetlands-protection law. But the area's residents love their waterways, and they've had victories: Lake Washington, bordering Seattle on the east, was once the hapless recipient of 20 million gallons of effluent every day. A regional water-pollution agency was formed to take on the problem, and by 1968 no waste was reaching the lake. By 1977, though not pristine, it was as clear as had ever been recorded.

SEATTLE

WHAT PRICE SUCCESS?



As unlikely as it may sound, the Seattle area is running out of water. Despite 150 days per year of precipitation west of the Cascades, water demand will soon outstrip supply. The most critical areas are the burgeoning outlying suburbs that rely on groundwater. Fisheries agencies, native groups, and conservationists have made it clear that providing more water is no longer a simple matter of deciding where to deposit a big new dam. ■ Water worries grip the Northwest. The Columbia River system, a traditional symbol of the region's natural wealth, has failed to be all things to all species: Heavily drawn upon for irrigation and intensively dammed for cheap hydroelectric power, it no longer has water to spare for the teeming salmon (another symbol of the Northwest's bounty) that once plied the rivers. In 1991 the sockeye salmon and three chinook salmon runs were proposed for protection under the Endangered Species Act.

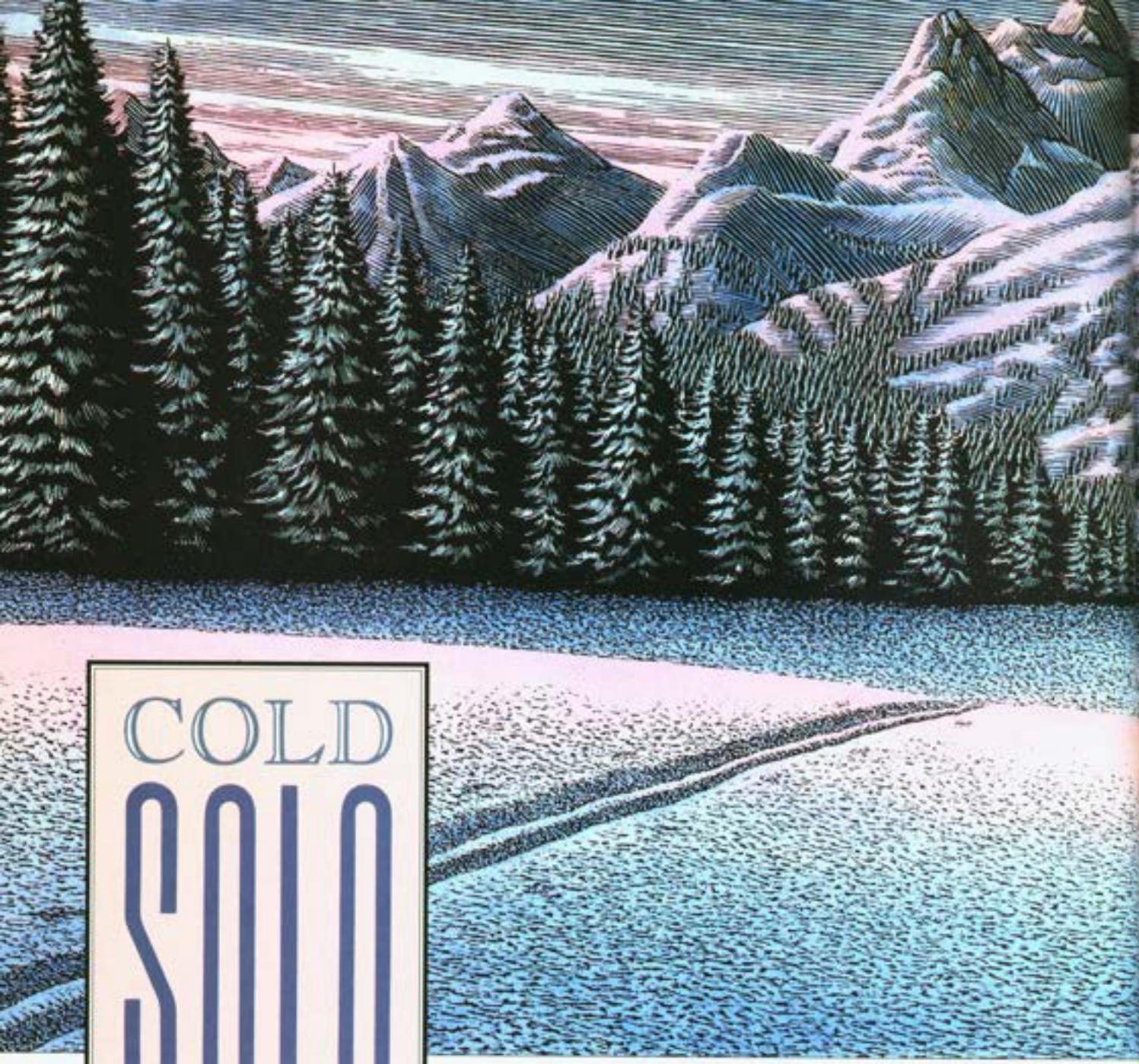
Like that of its perceived archenemy Los Angeles, the Seattle area's growth has all been auto-dependent. The result is that nearly half of the region's air pollution (and more than 90 percent of its carbon monoxide) comes from vehicles. A 1.3-mile bus tunnel recently opened downtown, but officials are just now developing comprehensive plans for transit to and within the booming suburbs. ■ In 1991 the state passed an admirable air-quality bill that places new restrictions on motor vehicles, industrial emissions, woodstoves, and outdoor burning. Once considered a requisite for the woodsy Northwest lifestyle, woodstoves are now seen as compact carcinogen machines: Thirty houses equipped with older, "uncertified" woodstoves crank out as much particulate matter as 30,000 homes heated by natural gas. One Seattle neighborhood has exceeded federal health standards set for industrial areas.

An estimated 83 percent of city residents participate in curbside recycling, the highest rate in the nation. In 1991, residents recycled 36 percent of their household solid waste, well on the way to the program's goal of 60 percent by 1998. Part of this success can be attributed to the region's high civic consciousness (the volunteer group Friends of Recycling goes door-to-door educating residents about the program), and part to some of the highest garbage-collection rates in the country. Local recycling is thorough: Many residents can leave sorting to a central processing center, compostable yard clippings are collected separately, and King County operates a mobile household-toxic-waste collector that roams suburban shopping malls. Because of recycling's success, in 1989 Seattle abandoned plans to build a trash incinerator. Even so, the city still ships 400,000 tons of garbage annually to Oregon.

The most critical issue Puget Sound conservationists face is on the mountains all around them. Today, only about 10 percent of the old-growth forests that once blanketed the Cascades and Olympics remain. In the wake of the listing of the spotted owl as a threatened species in 1990, two bills—S. 1536, sponsored by Washington Senator Brock Adams (D), and H.R. 3432, authored by Representative Jim McDermott (D)—have been championed by the Sierra Club's Cascade Chapter and other Northwest environmental groups. Both bills would ban logging on sensitive national-forest lands and suspend old-growth cutting in designated study areas. In addition, they would provide economic assistance to hard-hit communities and extended unemployment benefits to workers. (The Adams bill would also discourage log exports.) Even if you're an aerospace engineer, logging laws are important here: With no income tax, the state relies on revenue from more than 2 million acres of state forest lands to help fund its schools.

Seattle may not be what it used to be, but it still knows the outdoors. The city has set aside nearly 5,000 acres of parks, and the region is surrounded by more than 12 million acres of public land. Lovers of nature are awash in outings sponsored by the Sierra Club's 16,000-member Cascade Chapter and The Mountaineers, a 12,000-member climbing and conservation organization founded in Seattle in 1906. Befitting a vast outdoors, the Puget Sound region is also home to vast Recreational Equipment, Inc. (REI), a sporting-goods cooperative (and conservation supporter) formed in Seattle in 1938 that now has 30 stores and 2 million members—so big that even *its* headquarters has moved to the mushrooming suburbs. ■

►*For more information, see "Resources," p. 149.*



COLD SOLO

TAKE A DEEP, ICY BREATH AND POINT YOUR SKIS INTO YELLOWSTONE AT ITS MOST ELEMENTAL.

For several days the weather pundits in the northern Rockies had been predicting dire consequences from an advancing air mass that the week before, in Alaska, left temperatures of minus 60 degrees in its wake. Then, after a trio of cloudy but not especially cold days, the forecasters began to sound like so many boys crying wolf.

But tonight the wind is a beast. It streaks across the earth like a demon intent on some prey to the south. My interest in it isn't casual: Earlier today I had gone to get a backcountry-use permit from the wardens of Yellowstone National Park. They laughed at me, told me that the wolf was at the door; but I maintained a facade of competence, and they felt obliged to grant me the permit. Perhaps they thought I wouldn't get far enough to require rescue.

Now, listening to the howling wind, I'm tempted to stay at home by the fire. My plans are to ski alone through the Teton Wilderness and the southeastern corner of Yellowstone, a place where nature can easily gain the upper hand. But I consider my experience and my longing for solitude, take a deep breath, and wait to see what the next day will bring.

A seeker of solitude usually chooses a place such as a remote glacier or a distant rainforest, a place far more romantic and inaccessible than Yellowstone. But human influence has extended into virtually every habitable valley on the globe. Even with careful planning, a solo traveler must be prepared to encounter a party of pilgrims, or mountaineers, or slash-and-burn agriculturalists.

But under cover of winter, it's possible to go to a place as familiar as the mountains of Wyoming and see a side of nature that hasn't changed much since humans first crossed the Bering land bridge—a desolation of snow, mountains, and forests gripped by a climate that precludes year-round occupancy.

Plotting my route was easy enough: I simply chose the shortest path through the largest roadless area in the state. It had the attraction of being a journey of commitment. Aside from retracing my tracks, the quickest way out would be to finish my planned trek. But what made the trip even more compelling was that for 60 miles—nearly a week's skiing if all went well—I would be a willing exile, beyond help from

• BY RON MATOUS •

or communication with my fellow human beings.

Weather conditions must be perfect for such a journey. A heavy snowfall can slow your progress to a crawl, and warm temperatures can turn the snowpack to a viscous gruel, stopping you in your tracks. I'm pinning my hopes on the ideal skiing conditions created by the cold, clear, continental air masses that sometimes sit on this region for weeks at a time in midwinter.

My trip will take me through Thorofare Meadows at the heart of the Teton Wilderness, southeast of Yellowstone National Park, 30 miles in any direction from a road and surrounded by the cliff-girt volcanic peaks of the Absaroka Mountains. Here the Yellowstone and Thorofare rivers meet in a savannah-like expanse; for more than 20 miles their waters, having drained the 10,000-foot Buffalo and Thorofare plateaus, weave toward the southeast arm of Yellowstone Lake through a natural defile. On summer evenings, the two-mile-wide valley is filled with willows, grazing elk, and a shimmering carpet of tall grasses.

On the morning of February 6, though, the temperature is minus 25 degrees in Jackson Hole. As I drive to my starting point, the atmosphere is visible, shimmering and flowing above the road as it might on a hot day in July. The sky is deceptively clear and sunny; a songbird greets me as I don gloves, skis, and a 60-pound pack and shuffle away from my car, the last artificial heat source I'll encounter for six days.

The Mink Creek and Snake River fires of 1988 swept over the terrain I plan to ski. For three months I had looked north from my home to clouds of smoke on the horizon that seemed like a scene of war. Now the air is so frigid that it would be hard to light a match in the same forest. Thinking of that inferno tearing through this white-and-blue landscape, where I'm struggling to keep my nose and thumbs from going numb, I realize that I'm operating at the lower end of the range of temperatures hospitable to humans.

The first burned trees appear seven miles into the trip. Stripped of green, as if imitating a deciduous forest, the naked trunks and branches reveal the conglomerate cliffs behind them. For three days I'll ski through alternating areas of thick, untouched conifers and blackened skeletons. The forest is peppered with brown-needled trees: On windy days during the summer-long firestorm, flames had rained down at random, often igniting spots a mile or more from the main body of the blaze.

The green of watercress at the edge of a spring marks the site of my first camp. This spring is the only flowing water I've seen all day; the Buffalo Fork, which I'd been following, was covered with snow. To conserve fuel, I stop wherever there is running water. Surrounded by ice, I'm in a desert.

For shelter, I erect a pyramidal tarp above a pit dug into the snow, with ski poles acting as a centerpole. At each day's end I can drop my pack and within half an hour have my nylon home up, tight as a drum and sealed with snow around the edges, away from the trees so the winter sun can reach it. The labor of shoveling snow and setting up the tarp dries the sweat that accumulates under my pack during the day, and keeps me warm until I can crawl inside, light the stove, and prepare the first of many pints of tea.

There's no need to look for diversions while backcountry skiing. Life breaks down into a few black-and-white elements: eating, sleeping, traveling, and staying alive. I continually monitor the weather and my health, equipment, food, and fuel. The subzero cold sharply defines the boundaries of the flesh, but with adequate food and water (and an oversize sleeping bag) I'm fortified rather than frozen.

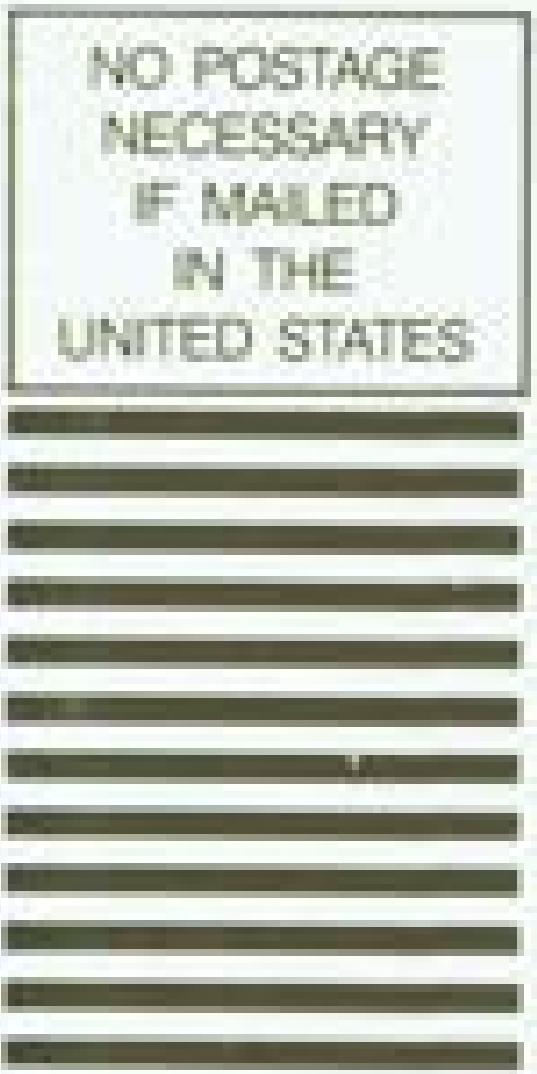
The second day takes me another dozen miles into the heart of my journey, a gray zone where I can no longer deal with a problem simply by turning back or going on. I've walked for weeks in the Himalaya knowing that the porters who carried my food in could also carry me out. I've floated canyons in Utah knowing that if my boat capsized, there would be others coming along behind. But deep in the Rockies in the dead of winter, I can't count on anyone finding me if conditions turn sour. Helicopters can't fly in storms; tracks can't be followed. This is the price (and one of the attractions) of visiting a barely accessible wilderness.

Looking down the upper Yellowstone River from the base of Hawk's Rest is like peering down a broad boulevard in the hours before anyone is awake. I can't make out the river's far end, because in the distance it curves slightly to the left, and trees begin to populate its meanders. Along its west side the banded hills of Two Ocean Plateau march to the horizon, broken at regular intervals by steep, short drainages, densely timbered, burned and unburned. The east side of the river valley has greater variety, with creeks splitting a mountain landscape composed of tall, stratified cliffs and steep, wooded slopes, with much higher, treeless peaks at the heads of the larger tributaries. Looking back to the south, the headwaters of the Yellowstone and Thorofare rivers disappear as the valleys narrow to canyon width and curve alluringly back into the Absarokas.

I camp near a new outfitter's bridge across the Yellowstone, where my map shows only a ford. The one sign of the river channel is a slight depression in the wind-carved snow, making the span look like a ship stranded in the Sahara. The prints of a coyote in a futile search for water are scattered across the surface. I had passed just one open hole in the ice of Atlantic Creek earlier in the day. It, too, was surrounded by animal tracks, indicating that I'm not alone crossing this desert.

In the morning, the temperature is minus 28. I prepare to get out of my sleeping-bag cocoon in much the same way a weightlifter prepares for a 250-pound bench press. My breathing must be accelerated, my pulse quickened. If I emerge from the bag too soon, before I'm sufficiently awake to move decisively, the cold will insinuate itself deep below my skin, producing a chill not easily shaken off.

The most effective sleeping system for subzero condi-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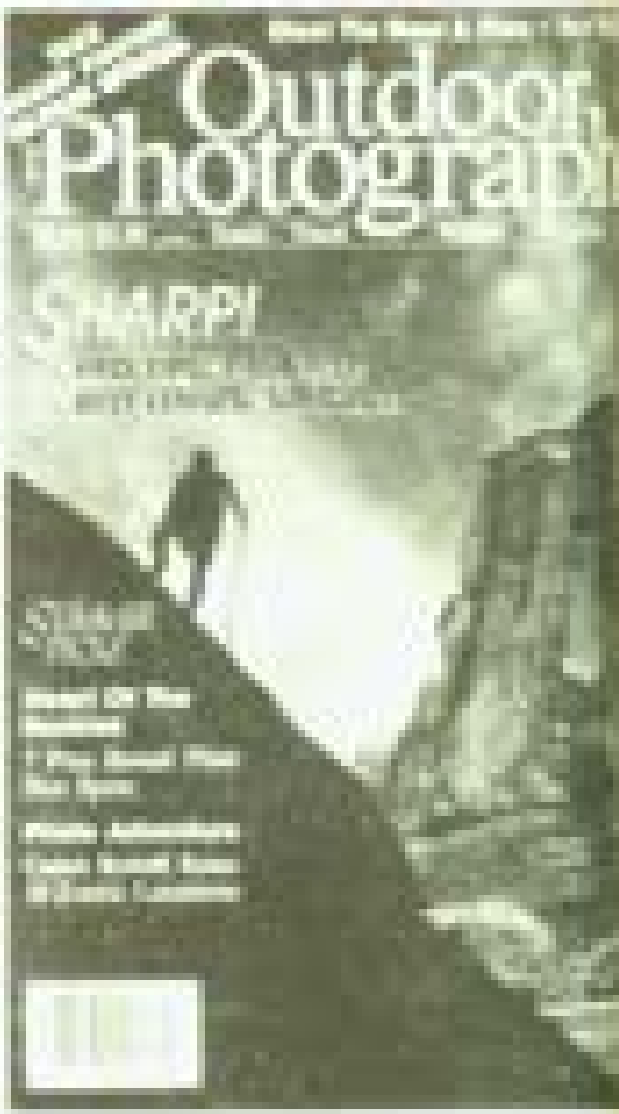

tions involves wearing only a single layer of cloth within a thin, waterproof, nylon sack that cinches up around the neck. This vapor barrier prevents the heat loss that goes with the loss of moisture from perspiration and evaporation; it also prevents that moisture from collecting and condensing within the thicker insulating loft of the sleeping bag. On the coldest nights, I draw the bag's hood tightly closed until only a small hole remains for breathing. Frost accumulates around the opening while I sleep, making me look like a fumarole steaming away through the Yellowstone night.

Once I open the hood, there's no turning back: The cloud of vapor that erupts into the tarp is heat lost forever. I clamber into additional clothing and light the stove as quickly as possible. My respiration and heart rate are elevated, as if I'd just set out on a cross-country run. That level of exercise keeps me warm and makes it possible to begin a day that may never see the uphill side of zero degrees.

The mountains stretch to the north on either side of me, and between them the windpacked snow plain lures me to the horizon where, around a bend, lies Yellowstone Lake. That slight westward kink in the farthest line of sight is convenient, allowing me to navigate by aiming at prominent Colter Peak for the better part of two days.

I point my skis at the mountain and adopt a rhythm that gains me about two miles per hour, leaving shallow tracks that are the only indications anyone has been here for months. I think of the tracks extending behind me in a long, wavering line along the valley floor, up the bed of Atlantic Creek, back across the elongated meadow of Two Ocean Pass, through the thick timber and burned patches over the ridge to North Buffalo Fork, and on for another ten miles to my now-icy car at the Turpin Meadows trailhead.

At the edge of Yellowstone Lake—which in winter becomes a broad plain of snow—a bison sits near a small herd of elk. These are among the unluckiest animals in the park, because they have no hope of reaching warmer wintering grounds, and there are no geothermally heated meadows here to provide an illusion of spring. Their tracks show that they've been pawing for water as well as for forage.

The lake basin is often the coldest place in Wyoming. Just as the waters from a thousand square miles drain into it in summer, frigid air from the surrounding mountains pours into it in winter. Over the course of the morning I notice that the day isn't getting any warmer. It's so cold that my water bottles are freezing, even though they're tucked inside my jacket. The icicles that build up on my mustache and eyebrows are as hard as iron, and I have to put on a parka to stay comfortable even while skiing. I face the sun and carefully adjust the angle of my upraised palms and face to intercept maximum radiation, but there is little to be felt.

This absence of heat, or any source of heat, is new to me. The air is a blotter, drawing out of me all the warmth I can produce. Never before have I been able to ski, fully clothed and carrying a 60-pound pack, and not work up a sweat.

My approach stirs the bison into a run, a caloric expenditure that can easily be fatal at this time of year. Unlike other ungulates in the park, the animals here aren't used to people. Some of the young may have never encountered a human; some of the old might not live to see another.

On the western horizon, a bank of clouds spills over the Pitchstone Plateau, the first sign of a weather change that will push temperatures up to the freezing point and turn this blue world to gray in a few hours. As uncomfortable as the arctic conditions have been, they've guaranteed the crystalline weather that sets these mountains and their azure skies in the most flattering light, and relieved any concerns I'd had about a snowfall that could make skiing punishingly slow.

A dozen miles of dense timber, a 9,000-foot pass, and a network of ravines and steep hillsides separate me from the park's east entrance road. But I'm long past the point where a shift in the weather can change my plans. When the snows finally arrive on the fifth day, my route through densely branched spruce and fir leaves me soggy; I drop down the final slope into Clear Creek Meadows with a sodden jacket and a deep chill, intent upon setting up camp and gradually drying out to ward off the threat of hypothermia.

Despite the proximity of the road and a firm snowmobile track, I leave the last ten miles to the next day. When a pair of snowmobiles pass, I feel relieved to be within reach of human society. But once they're gone, I relish the silence that reigns again.

For five days I've moved singlemindedly, from one simple goal to the next, so as not to let the immensity of the task discourage me. Yet on the final day, when I can think back over the week without concentrating on the terrain immediately ahead, no new revelations are forthcoming. From this moment on, the memory of the experience will only grow dimmer. Perhaps that's best, because it's forgetfulness that keeps me coming back. ■

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►*For more information, see "Resources," p. 149.*

UNBROKEN CIRCLE

Continued from page 133

talking about common people having a voice in what kind of economic system they have."

What do people take with them from Highlander workshops? Some phone numbers, perhaps, of other activists; a broader view of the nature of the enemy; hints on what tactics have worked for others in similar situations. But most important of all is a sense of power born of their shared experience, a belief that things can change. Jim Price, the Sierra Club's Southeast representative, describes it as breaking what Brazilian educator Paulo Freire called "the culture of silence."

"When people experience that power within them, they're never the same," says Price. "Highlander does not empower people; the people who experience the Highlander sessions empower themselves."

After our workshop one night, Luis David Sepulveda told me what coming to Highlander had meant to him. He leads a group that has been trying to clean up a chemical mess in West Dallas. In the midst of this industrial wasteland sits a big public-housing project, whose residents are either African-American or Hispanic. Most have no more than a sixth-grade education. Sepulveda has a high-school diploma plus a few hours of college. "And I'm supposed to be the brain," he laughed.

What would he take home from the STP workshop? I asked.

"Knowing I'm not the only one," he said. "For a while there I thought I was the only one going through this. I'm the only one being called a bad guy, or I'm the only one called a hypocrite, stupid, a troublemaker. It's good to know that all these guys are troublemakers, too." ■

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►*For more information, see "Resources," p. 149.*

REVIEWS

THOMAS J. LYON

African Silences
by Peter Matthiessen
Random House; $21

Peter Matthiessen's relish for life, his knowledge of natural and human history, and his somber realism about the decline of the wild combine to make this book both rich and disturbing.

In his travels through West Africa and Zaire in 1978 and again across the Congo Basin in 1986, narrated here in journal form, Matthiessen noted loss and misfortune all around: elephants decimated, rhinos all but eliminated, the small parks and reserves beleaguered, and the state of civil life signaled by the cloud of incompetence through which he and his ecologist friends had to make their way. Their great hope for seeing some intact country had been the comparatively lightly populated Central African Republic over which Matthiessen flew on his second trip; the broad savanna was "entirely beautiful and awesome," but organized slaughter and poaching had cleared the land. "The great silence that resounds from a wild land without sign of human life, from which all the great animals are gone," the author writes, "is something ominous. Mile after mile, we stare down in disbelief."

The Rediscovery of North America
by Barry Lopez
The University Press of Kentucky; $15

When the fireworks are booming in honor of the 500th anniversary of Columbus' landfall, this little book will stand as a corrective; it is a nay-sayer to our traditional self-celebration, speaking to us at a far more serious level. *Rediscovery* offers a revisionist, deeply moral understanding of the entire European invasion and transformation of North America, radically condensed into about 50 pages. Lopez has cut his sentences with care, taking a position with no ambiguity or vagueness. It is straight talk, coming across not as persuasion but as simple recognition of the obvious. Under the force of this book's accumulating insights, we may see that we and our forebears have indeed been guilty of "brutal, avaricious behavior, a profound abuse of the place during the course of centuries of demand for material wealth." What we should do now is "discover the continent again. We need to see the land with a less acquisitive frame of mind. . . . And we need to find within ourselves, and nature, a profound courtesy, an unalloyed honesty."

Islands, the Universe, Home
by Gretel Ehrlich
Viking; $19.95

Gretel Ehrlich takes a risk here, presenting a drama of her own consciousness. She describes her ranch in Wyoming, mostly, and her travels to Japan, Southern California, Hawaii, and Florida, but the essence of the story is a transcendentalist's quest for true, primary contact with the heart of things. Given this urge, she necessarily places a good deal of emphasis on mentality and emotion, and perhaps because she cannot in humility claim the grail, there is a certain vagueness to some of the outward description. "The next day, or the next" is a heading for a journal entry, emphasizing that the real business here is going on internally.

The section on Japan captures the distinctive aura of pilgrimage and, perhaps because of this, has more linear coherence than most of the rest of the book. The images seem sharper, too. Back at home, the landscape seems irresistibly metaphorical. Rock outcrops north of her ranch are "stone tablets" that present an "open book." "Is there a codex inscribed here, and if so, how can a blank be deciphered?" Despite a last-page quotation of the Japanese philosopher Dogen, who most unmetaphorically said, "Water is the only truth of water. Water is water's complete virtue," Ehrlich's preference seems to be for the richness of reference, relation, and analogy.

Wendell Berry
Edited by Paul Merchant
Confluence Press
$24.95, cloth; $14.95, paper

It was the fashion, for some decades, for critics to treat ideas or instruction within literature as a kind of embarrassment. "Didactic" writing was considered unsophisticated, lacking in "tension" or "ambiguity," favorite terms until fairly recently. Committed writing was thought to be low-brow, on a par with, say, regionalism. Perish the thought of a writer who not only held and passionately expressed ideas, but linked them to a locale.

Such a writer is Wendell Berry, and the present collection of tributes to Berry and analyses of his work amounts to a revision of the modernist critical mindset. Most of the writers here, including Wes Jackson, Terry Tempest Williams, and Wallace Stegner, take a stand clearly on the side of commitment, traditional wisdom, and the land, affirming the wholeness of literature and living. Their belief is that the ideas and values of a writer really do matter. Literature matters. The contributors to this book turn away from the false universality of worldwide, urban industrialism to embrace Earth-specific, site-specific writing.

The Wake of the Unseen Object: Among the Native Cultures of Bush Alaska
by Tom Kizzia
Henry Holt; $19.95

Kizzia, who writes for the *Anchorage Daily News*, traveled to several remote Native villages in Alaska, trying to get a line on what life is like out there on the margins. It's pretty rough: divided, unsure now, vulnerable, though he finds some remarkable, dignified people who have kept it all together. His narrative essays add up to a poignant account of the way the world-in-force, the "Industrial Growth Society" as it has been termed, can—quite without malice—run roughshod over a place and a way of life. (When the elders of Tuluksak chartered a plane to see what was making their river run foul, they eventually looked down on bulldozers in the riverbed, going after gold, and then learned that they'd get no help from the regional Native corporation, which "had its own mineral deposits in the Kilbuck Mountains and chose to remain on the sidelines.")

BRIEFLY NOTED

The words best summing up David Brower's goal for the environmental movement (which he's helped lead for more than half a century) are found in four stanzas of free verse he wrote as the prelude to volume two of his autobiography, ***Work in Progress*** (Gibbs Smith; $24.95). The poem reads, in part: "We seek a renewed stirring of love for the earth. . . . /We urge that all people now determine that/an untrammeled wildness shall remain here/to testify that this generation had love for the next." Such words, and Brower's bold actions, have inspired countless activists. The elder statesman of the Sierra Club and Earth Island Institute has tackled virtually every environmental problem. In this volume, he notes mistakes he's made, and regrets them; he tells of victories he's earned, and shares the credit for them. Brower offers some retrospection, but for the most part presents

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	Avg. no. copies, 12 preceding months	Issue nearest filing date
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C. Total Paid Circulation	506,223	520,550
D. Free Distribution (including samples) by mail, carrier, or other means	8,742	8,454
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I certify that the statements made by me above are correct and complete.

(signed) Carole Pearczyk, Publisher

a vision of the future. The book is also a tribute to the many people, famous and otherwise, with whom Brower has worked in shaping environmentalism's course. . . . "I know of no restorative of heart, body, and soul more effective against hopelessness than the restoration of the Earth," writes Barry Lopez in the foreword to ***Helping Nature Heal: An Introduction to Environmental Restoration*** (Whole Earth Catalog/Ten Speed Press; $14.95, paper). Edited by Richard Nilsen, this work features contributions from two dozen writers who offer principles and practical advice on the art of undoing the damage inflicted by humans on various ecosystems. Also collected here are reviews of books and tools useful to those wanting to make Earth-restoration their avocation. . . . In these days of computer-generated graphics, a handmade book is something to be prized. So observes illustrator, naturalist, and *Sierra* columnist Hannah Hinchman in ***A Life in Hand: Creating the Illuminated Journal*** (Gibbs Smith; $19.95, paper, including a 160-page blank sketchbook). She reveals techniques not only for beginning a journal (the easy part), but for keeping one going. One of the keys is to suit the writing style of each entry to the mood of the moment. . . . Some 20,000 plant species have edible parts, yet most of us are compelled to build our menus around a harshly limited selection of at most two dozen. Gardeners and truck farmers wishing to expand the range of food plants they grow may be overwhelmed (at least at first) by the sheer abundance reflected in ***Cornucopia: A Source Book of Edible Plants*** (Kampong Publications, 1870 Sunrise Drive, Vista, CA 92084: $35 plus shipping and California sales tax). Stephen Facciola describes and provides sources for 7,000 cultivars and 3,000 species of fruits, nuts, and vegetables, from almonds and amaranth to watermelons and white sapote, with loquats, macadamias, and mangoes holding down the middle ground. . . . If trees stir your soul but field guides strike you as a tad too dry, try perusing two books by naturalist Donald Culross Peattie,

permed in the 1940s and '50s and recently reprinted by Houghton Mifflin: ***A Natural History of Trees*** ($16.95, paper) and ***A Natural History of Western Trees*** ($18.95, paper). Lush prose characterizes both; you'll read in the latter volume, for example, that coast redwoods possess enormously swollen bases "buttressed with great lynx-like claws, as if the trees gripped the earth to keep their balance." First-rate woodcuts by Paul Landacre illustrate the text. . . . Pity the poor Pacific yew. As Hal Hartzell, Jr., explains in ***The Yew Tree: A Thousand Whispers*** (Hulogosi, P.O. Box 1188, Eugene, OR 97440; $19.95, paper), its bark is being sought after for the extraction of taxol, a promising substance in the cure of cancer. Bristol-Myers Squibb is seeking a million or more pounds of bark each year from throughout the Northwest, but since a large yew yields a mere five pounds of bark, the pharmaceutical company would have to fell some 200,000 trees to reach that goal. The yews could be spared, Hartzell maintains, if Squibb would stop using bark and start using yew needles, which also contain taxol, though at lesser concentrations. This book details the controversy while providing a scholarly, yet at times charming overview of the yew's place in world history. . . . Perhaps you'd like to get the yew story on video? If so, producer David Heine has made an hour-long documentary, ***Taxol and Yew*** (Aspect Productions, 1593 Jefferson St., Eugene, OR 97402; $24.95 plus $3 shipping). It features original music, a look at the yew in ritual, art, and myth, and interviews with scientists, foresters, environmentalists, pharmacists, and bureaucrats. . . . Many people know the American Southwest as a series of stock images: Franciscan friars building adobe missions; Zuni women balancing water jars on their heads; prospectors leading mules through cactus patches. Those wishing to get a more comprehensive picture of the region's history and sociology would do well to subscribe to the quarterly ***Journal of the Southwest*** (1052 N. Highland Avenue, University

of Arizona, Tucson, AZ 85721; $18 per year). . . . Americans have long looked upon animals as threats, pets, curiosities, food, or beasts of burden. Even the Enlightenment failed to raise the status of animals much: People continued treating them as slaves or moving targets. Only with Romanticism and the budding wilderness-conservation movement did Americans begin to accord their fellow creatures more respect. Environmental writer and Western historian Lisa Mighetto traces these changing attitudes in ***Wild Animals and American Environmental Ethics*** (University of Arizona Press; $35). . . . If you care deeply about wilderness, consider donating your time to help preserve the nation's public lands. Park and forest managers throughout the country are seeking campground hosts, interpreters, archaeologists, rangers, wildlife specialists, photographers, trail crews, and librarians to lend a hand. To find the location and task that suits you best, consult ***Helping Out in the Outdoors: A Directory of Volunteer Work and Internships on America's Public Lands.*** This annual publication of the American Hiking Society lists more than 2,000 volunteer jobs in all states. Copies are $5 each ($15 for a three-year subscription) from AHS/Helping Out, 1015 31st St., N.W., Washington, DC 20007. . . . If you prefer to be paid for your efforts, check the job listings in ***Earth Work,*** "the magazine for and about people who work to protect the land and the environment." Published monthly by the Student Conservation Association, the magazine lists paid positions—from entry-level to CEO—in nonprofit organizations, universities, and local, state, and federal governments. Subscriptions are $29.95 for 12 issues ($16.95 for six issues) from Earth Work, Dept. IPR, P.O. Box 550, Charlestown, NH 03603. . . . "The Earth is at risk as never before," writes Jonathon Porritt in ***Save the Earth*** (Turner Publishing, Inc., One CNN Center, Atlanta, GA 30348; $29.95). In this lavishly illustrated volume, whose profits will benefit Friends of the Earth International, Porritt targets the Western, materialistic notion of "progress"

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- ***In the Absence of the Sacred: The Failure of Technology and the Survival of the Indian Nations*** by Jerry Mander. Debunking the notion that computers, robots, space travel, and the like can truly better our lives ($25).
- ***A Beast the Color of Winter: The Mountain Goat Observed*** by Douglas Chadwick. A biologist goes to extremes to study an elusive beast ($12, paper).
- ***Amazonia*** by Loren McIntyre. The region as photographed and described by an explorer who has seen it all ($40).
- ***Adventuring in Florida: The Sierra Club Travel Guide to the Sunshine State*** by Allen de Hart. How to get beyond the theme parks ($14, paper).
- ***Adventuring in Arizona: The Sierra Club Travel Guide to the Grand Canyon State*** by John Annerino. Country wild enough to keep explorers contented for a lifetime ($15, paper).
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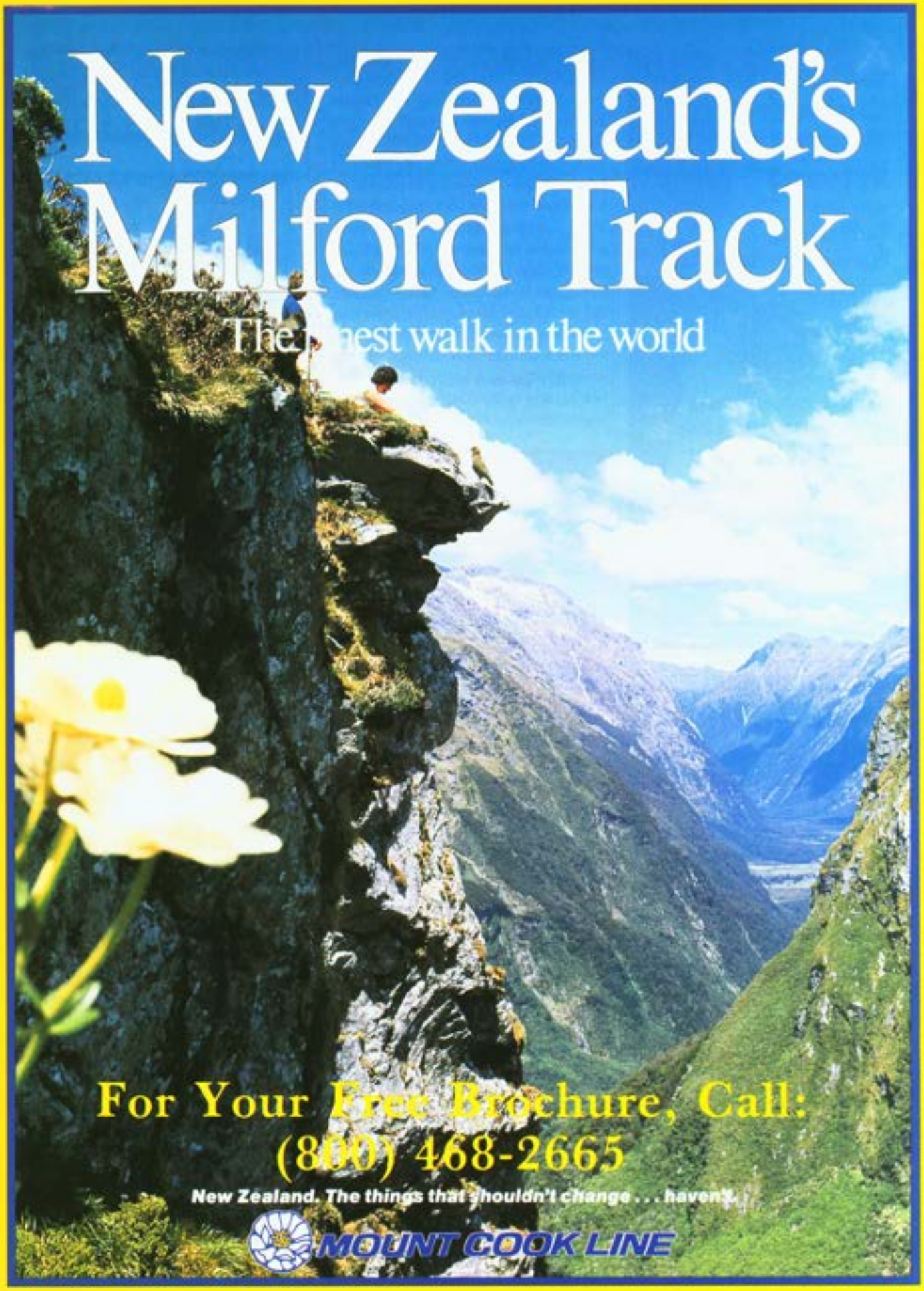
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Join Sierra Club activists working on issues that concern you. For information, contact the Campaign Desk, Sierra Club, 730 Polk St., San Francisco, CA 94109; phone (415) 776-2211.

AFIELD

"Hearth & Home," page 14

The Wild Bird Protection Act (H.R. 2540/S. 1219) would forbid the importation of wild birds for sale, institute a system of tagging to help identify smuggled birds, and limit the number of birds imported for captive breeding.

"Good Going," page 16

Adventuring in the Pacific: The Sierra Club Travel Guide to the Islands of Polynesia, Melanesia, and Micronesia by Susanna Margolis (Sierra Club Books, 1988).

Samoa by Deanna Swaney (Lonely Planet, 1988).

South Pacific Handbook by David Stanley (Moon Publications, 1989).

"Body Politics," page 20

Cross Currents: The Perils of Electropollution, the Promise of Electromedicine by Robert O. Becker (Tarcher, 1990).

Safe Technologies has produced several different home EMF meters. Prices range from $29.95 for nondial devices with lights that turn red in the presence of fields stronger than 1 milligauss to $150 for dial devices that actually measure the EMF emitted by individual household appliances. Safe Technologies, 145 Rosemary St., Suite F, Needham, MA 02194; phone (800) 222-3033.

For expert EMF testing, contact a company in your region. For a referral, call Safe Environments of San Leandro, California, at (510) 549-9693 or (800) 356-2663.

DEPARTMENTS

PRIORITIES

GATT, page 24

Write to your congressional representatives. Tell them that the United States should withdraw from GATT unless it is revised to include strong environmental protections.

GATT Nets an Environmental Disaster is an analysis of the GATT decision on tuna boycotts. Copies are available from Eric Christensen, Community Nutrition Institute, 2001 S Street, N.W., Suite 530, Washington, DC 20009.

Endangered Species Act, page 29

Urge your representative to oppose Jim Hansen's "Human Protection Act" and to work for passage of strengthening amendments supported by the Endangered Species Coalition. If you want to do more, write to the Coalition in care of the Environmental Defense Fund, 1616 P St., N.W., Washington, DC 20036.

Add your name to the list of Sierra Club wildlife activists by writing the campaign desk at the address above.

Alaskan bears, page 31

Sierra Club Alaska Chapter, P.O. Box 103-441, Anchorage, AK 99501; phone (907) 276-8768.

Friends of McNeil River, P.O. Box 231091, Anchorage, AK 99523; phone (907) 345-7036.

PLACE SETTING

Seattle, page 134

Sierra Club Cascade Chapter, 1516 Melrose St., Seattle, WA 98122; phone (206) 621-1608.

Northwest Greenbook: A Regional Guide to Protecting and Preserving Our Environment by Jonathan King (Sasquatch Books, 1991).

FEATURES

The Arctic, page 36

Five Sierra Club outings to the Arctic National Wildlife Refuge are scheduled for this year, from mid-June to late July. See the Alaska section of the Outings Catalog, pages 54–57, for details.

Midnight Wilderness: Journeys in Alaska's Arctic National Wildlife Refuge by Debbie Miller (Sierra Club Books, 1990).

Tracking Arctic Oil: The Environmental Price of Drilling the Arctic National Wildlife Refuge is a useful report on the drilling controversy. It's available for $6 from the National Wildlife Federation, 1400 16th St., N.W., Washington, DC 20036-2266.

Alerces, page 122

The Sierra Club International Program urges members to congratulate Chile's Foreign Investment Committee for its decision to safeguard forests from foreign timber investors. Address correspondence to Mr. Fernando Ibanez, Executive Secretary, Comisión Inversiones Extranjero, Teatinos 120, Piso 10, Santiago, Chile.

Ancient Forest International, P.O. Box 1850, Redway, CA 95560; phone (707) 923-3015. Contributors of $25 or more (tax-deductible) will receive AFI's newsletter, *News of Old Growth*.

Fundación Lahuen (Lahuen Foundation), Orrego Luco 054, Providencia, Santiago, Chile; phone 011-562-251-7506.

Committee for the Defense of the Flora and Fauna (CODEFF), Casilla 3675, Santiago 1, Chile. They publish a newsletter, *Informa CODEFF*, in Spanish, and periodic position papers in English.

Highlander Center, page 130

To obtain Highlander's quarterly newsletter, *Highlander Report*, or for information on how to attend an STP workshop, contact the Highlander Research and Education Center, 1959 Highlander Way, New Market, TN 37820; phone (615) 933-3443.

For an inside view of Highlander's history, see Myles Horton's autobiography, *The Long Haul* (Anchor Press/Doubleday, 1990).

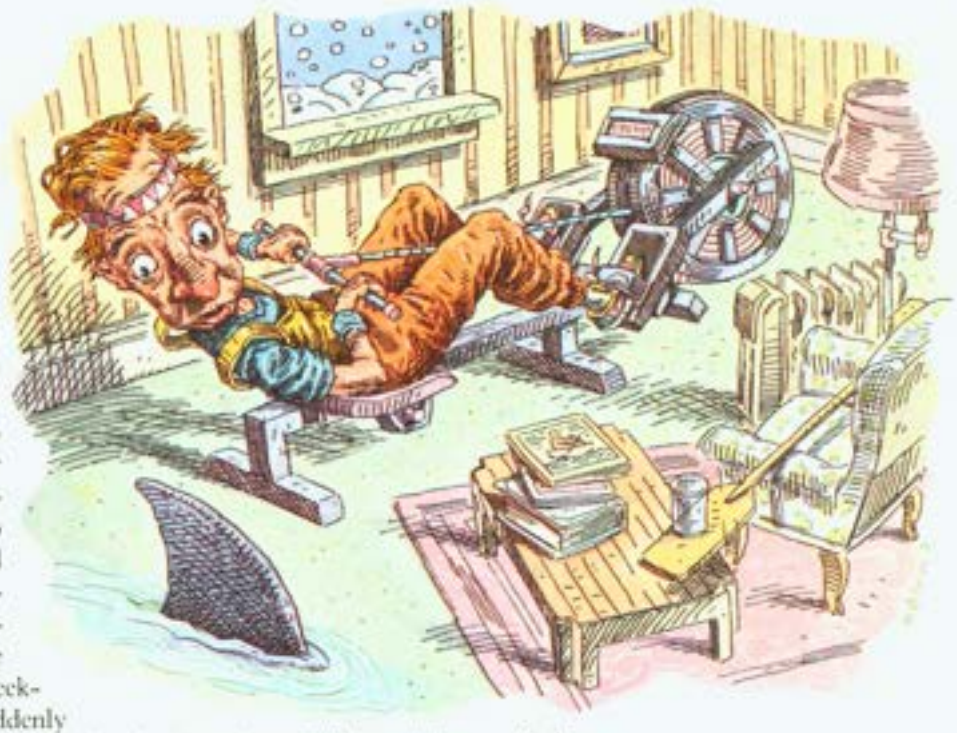
Cold Solo, page 136

Yellowstone National Park (P.O. Box 168, Yellowstone N.P., WY 82190) publishes a list of guide companies licensed to take visitors into the park's hinterlands in the snow season.

Jackson Chamber of Commerce (P.O. Box E, Jackson, WY 83001) offers a directory of outfitters operating throughout the Yellowstone region. ■

Liz Neporent

Winter Workout



You drag yourself through the door at the end of the day. It's winter, it's dark, and it's raining. To lift your spirits, you can click on the tube—or force yourself to get some exercise. If you're accustomed to working out in fresh air and wide-open spaces, though, indoor aerobics run a sad and easily shirked second. But when the reality of short, wet days and weekends-only workouts sinks in, suddenly the rumpus room doesn't look so bad after all.

You could stay fit by joining a health club, or by buying a jump rope and learning a few drill-sergeant routines. But many people opt for the convenience of home fitness equipment—often the same stair-climbers, treadmills, and cycling, rowing, and skiing machines you find in the clubs.

The first thing to consider is whether you want to train for your "regular" outdoor sport or simply maintain general fitness during the hibernation months. If your aim is sport-training, buy the machine that most closely mimics your outdoor activity. If your goal is simply to avoid becoming a blob, try "cross-training"—exercising muscles you don't normally use in your favorite sport.

Quality should be your main consideration no matter what machine you buy. You'll be pushing it (and yourself) for 30 minutes at a stretch at least three times a week (the minimum recommended by the American College of Sports Medicine), so you'll quickly find out what's flimsy. Familiarize yourself with the various machines at a health club. You'll learn what you like and be able to assess home versions more knowledgeably.

Heavy-duty equipment, especially treadmills and stair-climbers, costs a well-toned arm and a leg. Expect to pay $1,500 to $2,000 for a decent treadmill, and double that for one loaded with gizmos. A top-rung treadmill will provide computerized data about grade, speed, pace, time elapsed, distance covered, and calories burned. If you can live without frills, you can get a durable machine that will beat the cost of a gym membership in just a few years. In either case, pass up anything that doesn't have a spacious, springy walking surface and basic safety features: an emergency brake, front (rather than side) handrails, and enclosed motorized and electrical parts.

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top-of-the-line models have dozens of captivating programs (you can "race" against a pacer, for example). But you can also spend as little as $400 for a dependable, noncomputerized indoor cycle. In both cases, make sure that the seat and handlebars are fully adjustable and that you can vary and measure your workload. To get closest to real cycling, try a "wind trainer," a simple frame that turns a road bike into a stationary machine. A good model with adjustable resistance levels costs only $150.

Stay away from the $29.95 ski simulators so heavily advertised. They can't withstand the constant leg and arm movements of a skier, and offer only a rough approximation of the sport. NordicTrack sells several near-match models priced from $400. They are actually harder to learn than cross-country skiing itself: It's not easy to master a full stride while standing still. But NordicTrack machines clearly mimic the low-impact, aerobic motions of cross-country skiing.

Stair-climbers, the quintessential health-club toy, are as close as weather-bound rock climbers can get to simulated climbing without installing an indoor climbing wall. Some "full-body" machines exercise arms and legs in a ladder-climbing motion. Expect to shell out at least $700 for a set of stairs to nowhere.

Though rowing machines can be found for less than $150, you'll need to spend $600 or more to find one that imitates a natural rowing action without feeling choppy and uneven. The critical feature to look for is an air-, water-, or flywheel-resistance system rather than hydraulic arms.

Convincing yourself to use these contraptions is half the battle. Without wind whipping through your hair or great views ahead, exercise can be drudgery. Cultivate distractions: a good book, a bad soap opera, a Walkman, a view outdoors. Otherwise, you *and* your equipment will simply gather dust. ■

LIZ NEPORENT *is a fitness consultant in New York City.*

SIERRA NOTES

The Sierra Club Political Committee is seeking volunteers to help elect environmentalists to Congress and other critical offices in 1992. Tasks being coordinated at the Club's chapter, regional, and national offices include running phone banks, staging press conferences, stuffing envelopes, entering computer data, fundraising, canvassing door-to-door, and speaking on radio and television talk shows on behalf of candidates endorsed by the Club.

The Sierra Club is the only national environmental organization legally set up to take part in electoral campaigns. Over the years the Club has endorsed hundreds of candidates in national, state, and local elections. This year, Sierra Club Political Committee volunteers will continue the tradition of researching, evaluating, and endorsing candidates, recruiting and training new volunteers, and raising and contributing money to environmentalists seeking office (no membership dues will be used for this purpose).

To volunteer, send your name, address, and home and work phone numbers to the Sierra Club Political Committee, 730 Polk St., San Francisco, CA 94109; also include your eight-digit membership number (which can be found on the address label of your copy of *Sierra*).

I Am the Environmental President, a Sierra Club report, juxtaposes an array of President Bush's public statements extolling his environmental record with analyses of his actions. To receive a copy, send $1 and an SASE to Public Affairs, Sierra Club, 730 Polk St., San Francisco, CA 94109.

A new Sierra Club video examines the threat posed by open-pit mines, off-road vehicles, grazing, and resort development to the California Desert. The 28-minute program, produced by Doug Prose in cooperation with the Sierra Club Desert National Parks Steering Committee, portrays the desert as a wounded ecosystem, one that is fast losing its ability to regenerate. The program concludes with an urgent appeal to voters and Congress to support the California Desert Protection Act (S. 21 and H.R. 2929), which conservationists view as the last, best hope for the desert's survival.

Copies of *Desert Under Siege* may be purchased ($25 each for Sierra Club members; $35 for nonmembers) or rented ($20 for three days, members; $30 for three days, nonmembers) from The Video Project, 5332 College Ave., Suite 101, Oakland, CA 94618. To order by phone, dial 1-800-4-PLANET. To receive the discount price, include your Sierra Club membership number with your order.

For would-be guardians of America's wildlands, Colorado State University offers accredited correspondence courses in wilderness management. The curriculum, developed and funded by the Bureau of Land Management, Fish & Wildlife Service, Forest Service, and National Park Service, is designed to help these agencies compensate for cutbacks in their workforces and training budgets. The basic course, "Wilderness Philosophy and Ethic Development," discusses the origin of the wilderness concept and examines the history of the conservation movement in North America. Advanced courses look at how the public-land agencies differ in their management techniques, how ecosystems function and are affected by grazing, mining, and vehicle use, and how managers try to balance competing demands for recreation and preservation.

For more information about wilderness-management correspondence study, contact the Division of Continuing Education, Colorado State University, Correspondence Study, Spruce Hall, Fort Collins, CO 80523; phone (303) 491-5608 or (800) 525-4950. ■

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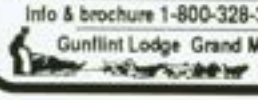

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The right to choose to give birth is basic to a woman's humanity. A candidate who would deny a woman's choice—even an environmentalist—would not get my support.
Jackie Richlin, Philadelphia, Pa.

No environmentalist would destroy the eggs of a spotted owl or crush those of a bald eagle. Why, then, would anyone kill the most precious resource on Earth—a human life?
Tom Walker, Edison, N.J.

I will always support any candidate who takes the pro-choice position. We are not in any danger of being unable to address most environmental problems legally; however, all women are now in very real danger of seeing their right to abortion restricted or eliminated by the Supreme Court.
Becky Sammons, St. Louis, Mo.

The environment and women's choice are issues of equal importance in my life. However, if I had to choose, I would give a higher priority to a candidate's position on the environment. Women can keep fighting despite failure at the voting booths. The world's endangered species, the children who breathe and drink toxins, the cancer-stricken migrant farmers from Mexico, on the other hand, cannot vote, cannot fight. Their survival, the environment's survival, is my survival. I can always go to a back-alley abortionist if that ever becomes a necessity. I cannot go to another planet when the environment in this one becomes degraded.
Luce Salas, Berkeley, Calif.

I am a woman before I am anything else. Any candidate who would take away my right to reproductive freedom and privacy, I would actively campaign against!
Melissa Perry, Tampa, Fla.

An environmentalist who supports abortion is as contradictory as a priest who supports atheism. Environmentalism means to protect that which is living. Abortion means to destroy that which is living. The quality-of-life argument for abortion is as Hitlerian as you can get.
Jack Land, Marco Island, Fla.

Population increase is the most important reason for global warming, land erosion, loss of habitat and biodiversity, tropical-rainforest destruction, and loss of fresh water. Many organizations, including the Sierra Club, are trying desperately to stabilize world population. Without abortion, the already hopeless situation would be absolutely, desperately hopeless.
George Klein, Danbury, Conn.

I would most definitely oppose an environmental candidate who favors abortion. The abortionist mentality is part and parcel of the godless, materialist, hedonist, relativist, consumerist mentality that is a result of the (so-called) "Enlightenment" and is the cause of the environmental crisis in the first place. One may trust someone whose environmentalism springs from deeply held religious convictions. Without these (not necessarily Christian) convictions, then all is relativized, arbitrary, whimsical. One cannot trust someone who is an "environmentalist" simply because that happens to be "trendy" at the moment, which is inevitably the case in the absence of firm religious and metaphysical convictions.
Michael McClain, Middletown, Ohio

Any candidate who supports free choice has my vote. I consider anti-choice people to be religious fundamentalists whose ultimate aim is total control of our lives. Their ideology has never included a balanced world view. It has shown a manifest desire to dominate, subjugate, and exploit wherever possible. Their concern for the environment will always be second to their true agenda, which is to make the United States a Christian nation.
Don Myers, Hewitt, N.J.

Human population is out of control, and starvation is not a reasonable alternative to abortion. I might support a "pro-life" environmental candidate who: (1) recently adopted several children; (2) works actively for sex education in the schools, promotes clinics where birth-control devices and pills are freely distributed, and promotes healthy, nonpuritanical attitudes about the human body and sexual responsibility; and (3) works just as hard at saving salamanders, owls, manatees, eagles, whales, and Venus's-flytraps as he or she does at saving humans.

The "pro-life" movement is still more about the domination of man over nature (and man over woman) than about preserving life.
S. G. Wilkins, Chapel Hill, N.C.

The method of population control we used to rely upon willy-nilly—war—is not as convenient as it used to be. More deliberate and enlightened methods are now forced upon us, and one of the best of those currently practical and realistic in developed countries is pre-natal abortion. It is much kinder than post-natal abortion, which is what one friend of mine calls the elimination, by execution or long-term incarceration, of those who end up socially useless due to population pressure.
Charles Mosher, Menlo Park, Calif.

The very idea that there could be some such monstrosity as an "environmental candidate" who would oppose a woman's right to choose an abortion is preposterous. What a woman who wants an abortion is feeling is a deep-seated sense of misalignment between her internal and external environments. About this she is almost certainly the best authority to which we humans have access. If women were to have control of their bodies and their lives, I think it most unlikely that there would ever be "overpopulation" or environmental catastrophe.
Ann K. McConnell, Santa Cruz, Calif.

FOR NEXT TIME...

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