



SIERRA CLUB CANYON ECHO

Grand Canyon Chapter · Arizona

Volume 31, No. 1

February 1995

Letter from the Executive Director

Darkness Before Dawn

by Carl Pope, Sierra Club Executive Director

November's election results, clearly, are a major disappointment to all of us. The Sierra Club and all of you made a truly heroic effort to elect our candidates, and to see so many of them swept away by a public tide of hostility to the Congress and our political institutions in general is frustrating, sad and depressing.

It is vital that all of us help the Sierra Club and the general public draw the right conclusions from these results. We need to communicate forcefully that the Sierra Club is ready and able to advance its programs in the new political climate of the 104th Congress, just as we snatched the California Desert Protection Act from the killing floor that was the 103rd Congress.

What really happened in the elections? The public was angry at congressional gridlock, and they took their anger out on the Democrats. Gridlock will continue in the new Congress. It is important that public anger be focused at those members of the House and Senate who obstruct environmental objectives, which continue to be widely popular with the American people.

The Sierra Club will hold the administration and the new Congress accountable if they fail to deliver on key environmental programs.

The media decided that crime and immigration were the issues of the hour, and steadfastly declined to report on other issues. As a result, many candidates who could have been helped by their environmental records could not get their message out. But where environmental issues became central in a campaign, our candidates prevailed. Sens. Frank Lautenberg, John Chafee and Jim Jeffords are examples of candidates whose environmental records helped them to victory.

Sen. Feinstein's victory in California was also strong evidence that the public rewards environmental performance. The California desert bill, along with the ban on assault weapons, were the twin pillars of Feinstein's re-election theme: "Promises made — promises kept."

Our message still resonates with the American people, and we need to remind Washington of this fact.

While the next Congress has fewer members inclined to vote for environmental programs than the last, it is easier to stop legislation in Congress than to pass it. Certainly it will be difficult to pass good environmental bills; it will be even harder for the other side to pass bad ones. And most of our current environmental laws are quite strong. We can continue with effective implementation of the existing Clean Water Act, the Endangered Species Act, the Safe Drinking Water Act and the Clean Air Act. We would like to improve these laws, but that may have to wait.

The Sierra Club is ready to spend the next two years revitalizing public awareness of the fragility of our web of environmental protection programs. We need to make clear to the American people which members of the new congress are trying to force us back into the environmental dark ages while we lay the groundwork for renewing our legislative

offensives after the 1996 elections. We will also create a drumbeat of public pressure on the Clinton Administration to take much better advantage of the environmental laws already on the books than it has done to date.

The Sierra club is uniquely well positioned to launch a grassroots organizing strategy that can both move our environmental agenda within the administration and build the foundation for the Congress that starts in 1997.

Just as our period of greatest organizational strength immediately followed the Reagan victory of 1980, we have a tremendous opportunity after this election to rally the American people around our issues. In 1981, however, our opponents controlled both the Senate and Executive Branch. Today, we have a much more sympathetic administration, and we need to take advantage of this.

What is more, in 1981 the election results came as a shock, and it took us four or five months to regroup and get ready. This time we anticipated that the next congress was going to be worse, and have been planning for it accordingly. We're ready for the 104th Congress. We will hit them hard; we'll remind them that they were elected by the American people, and the American people want to leave their grandchildren a healthy planet. □

This article was reprinted from The Planet, The Sierra Club Activist Resource, December 1994 - January 1995 issue.



Republicans rule! Seen here flanked by two supporters, Speaker Newt Gingrich and US Senator Jon Kyl is our own Raena Honan, Republican Party reptile.

Arizona Game & Fish Commission Votes Yes to Include Wolf Plan in USFWS EIS Process Mexican Wolf moves one step closer to recovery

by Bobbie Holaday, Executive Director, P.A.W.S.

The Mexican Wolf moved one step closer to reintroduction in Arizona on Oct. 22 when the Arizona Game and Fish Commission voted to allow the Arizona Game and Fish Department's (AZGFD) Mexican Wolf Reintroduction Plan to be submitted as an alternative in the Draft Environmental Impact Statement (DEIS) being produced by the U.S. Fish and Wildlife Service for Mexican Wolf reintroduction in the Southwest. Although the Commission voted three to one to forward the plan, some commissioners qualified their vote. (One Commissioner was absent.)

The Department's draft reintroduction plan describes the management actions the Department believes are needed to re-establish a self-sustaining population of Mexican wolves within Arizona without changing current land use practices. The plan proposes that two mated pairs of wolves be released each year for at least three years. The goal is to establish 4-9 packs of wolves within the 1,910 square mile recovery zone in the Blue range area of the Apache National Forest in east-central Arizona.

Nongame Branch Chief Terry Johnson explained to the Commission that approval to forward the draft plan to the USFWS is not a decision on whether or not to eventually reintroduce Mexican wolves. The Department's plan will be submitted to the USFWS for further analysis as one of the alternatives identified in the DEIS, which is expected to be released in mid-February of 1995. The DEIS process will allow full public comment and complete analysis of economic and environmental impacts of the proposal. The Commission and the Department will have

an opportunity this Spring to make comments on the DEIS during the 60-day public comment period. When the Final Environmental Impact Statement is issued in late 1995, the Commission and Department will have another opportunity to give final consideration of the proposal.

Johnson added that even if the Department eventually opposes a reintroduction proposal, the final decision on which alternative will be implemented will be made by the USFWS, probably in late 1995 or early 1996.

"By submitting a draft plan for inclusion in the DEIS, it will allow the Arizona Game and Fish Department to be as aggressive and assertive as possible in addressing the concerns of Arizona citizens during the EIS process, including the public hearings," Johnson told the Commissioners.

While the Commission Chair, Beth Woodin voted an enthusiastic "yes" and Commissioner Herb Guenther a definite "no," Commissioners Art Porter and Mike Golightly both expressed concerns about the desirability of reintroducing wolves into the Blue Range area in Arizona. They raised many questions about the reintroduction plan and about whether Defenders of Wildlife's wolf compensation fund was dependable. However, both believed that the AGFD should be involved in the EIS process decisions and did voice a somewhat reluctant "yes" vote.

While the meeting and its public comments were dominated by wolf supporters, some members of the Commission seemed to pay more attention to the rather extreme

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The Department's plan will be submitted to the USFWS for further analysis as one of the alternatives identified in the DEIS, which is expected to be released in mid-February of 1995.

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Letters to the Editor

Editor:

Arizona's Governor Symington, in asking to destroy the Endangered Species Act, overlooks that law's existing "God Committee" provision for terminating "uneconomic" critters, the ease of UA-type squirrel-dumping riders, and the ease with which congresspersons intimidate involved federal officials.

Two federal biologists testified before Congress (June 26, 1990) and in court (Jan. 11, 1990) that their squirrel studies were ordered fudged by political pressure. Wildlife Director Michael Spear testified that he violated endangered species law by substituting his personal non-biological decision. GAO investigators concurred with the above testimony, telling Congress only the cabinet-level "God Committee" could make "non-biological" decisions incurring species extinction.

Because the science was fraudulent, UA spent over \$1,000,000 to circumvent U.S. environmental law. UA's arrogant lobbyist boasted to the Washington Post (March 8, 1990) that UA paid his firm \$50,000 per squirrel for that circumvention.

UA lawyers (March 26, 1990) argued in court that their \$1,000,000 rider exempted them from all "applicable environmental statutes" even if "it was going to kill every squirrel."

The Coronado Forest Supervisor tried to halt the project (May 1990) due to the squirrel's critical status. Within hours McCain, DeConcini and Kolbe summoned him to McCain's DC office (May 18). The GAO documented a 90 minute tirade and personal job threat by McCain against the forester. Within 24 hours the forester reversed his position.

The zaniest thing the governor said is that the Endangered Species Act closed the Fredonia mill and caused the Dude fire. The Forest Service denies that Spotted Owls exist in the Kaibab, and the fire occurred long before the owl was listed as endangered.

The raise Symington gave to his advisors seems wasted.

-Stephen Wolfson, Phoenix

Editor:

In December Arizona's governor Symington called upon Congress to eliminate laws protecting endangered species. He blames these

laws for closure of the Kaibab National Forest's Fredonia mill. But one glimpse at the (widely distributed) aerial photos of the Kaibab shows why there can be no logging there for decades. Most of its saw-timber is gone. Kaibab Forest Products has too long engaged in a non-sustainable plundering of that forest.

The Governor's statements, that logging leads to forest health and prevents fire, is like the medieval doctors who thought the best way to save a dying patient was to bleed them to rid them of "bad blood." Logging does not replace fire in maintaining a healthy forest. That is nothing more than a myth perpetuated by the logging industry.

From ecological and public resource perspectives, there is no forest "health" problem. Disease, insects, and yes, even fires, are the normal course of events in forest ecosystems — and now correcting the imbalances created by 100 years of "tree farm" forestry. Logging truncates these activities, destroys riparian habitats, increases erosion and stream siltation; causing unhealthy forest ecosystems.

Dead and dying trees, the bane of foresters, are vital in providing long-term nutrient sources for soils, cover for wildlife, habitat for cavity-nesting wildlife and for fish in streams. The important point is that the best solution for the forest "health" problem is to keep "tree farm" foresters, loggers and firefighters out of such forests and let the forests heal themselves.

Those lamenting the Fredonia mill closure should direct their concern to the irresponsible greed of Kaibab Forest Products' non-sustainable logging policies. Their contempt for public resources and their own employees' jobs is reflected in their recent federal prosecution for theft of hundreds of national forest trees — stolen from the American public.

-George Smith, Phoenix

Editor:

So the "cowboys" at Rawhide are mad at the the "Varmits" over at WestWorld (Phoenix Gazette, November 9, 1994). They should be. It's ridiculous for Scottsdale to help a tax-exempt business compete against a taxpaying business. It's unfair to the taxpayers of Scottsdale, the Federal taxpayers, who paid for

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by Raena Honan, Legislative Director

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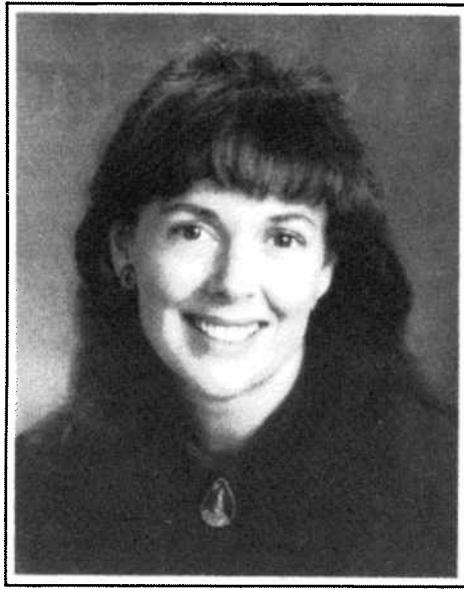
"If it bleeds, it leads" is the news creed. An example: despite the extensive study of those in the know, and public hearings in DC, foes still whine about the Stephen's Kangaroo Rat and the Riverside, CA fire last year. Fact-finding found that the homes would have been destroyed by the fire, clearing of brush or no. In fact homeowners were allowed to clear brush from the rat's habitat, simply not to till the underlying soil. Experts agreed at congressional hearings, the Endangered Species Act had nothing to do with the fire's intensity.

Why is this still being brought up? Because chewing scenery and wringing hands gets attention. I confess, I was a competitive, superficial microphone totter for years, trawling for sound bites to spice up my broadcasts.

So it is only a natural progression for Gov. Symington from referring to mainstream environmental organizations as "radical" to "extremists", at least four times in a recent letter to John McCain. He urged repeal of the Endangered Species Act... which, according to the US Fish and Wildlife Service, has stopped absolutely no projects in Arizona, a fact the Gov has failed to take note of. Facts, as any tabloid politician will tell you, are really annoying.

Us greens can be counted among those considered outsiders as Arizona enters a xenophobic phase where even the critters are foreigners. The Symington folks have steadfastly refused to meet with any of you for the past two years. I see Mr. Symington in food lines at GOP events and he's always pleasant. Tabloid politicians only need bile when cameras roll, like for the recent State of the State address.

First, Mr. Symington presents a jobs vs environment argument where he believes people must come first and other species second. Why is this a conflict? Why not jobs and the environment? I'll let you in on a little secret: when you subdivide private land, you can't graze, mine or cut trees on it. And little lots are far more valuable when there's more of them. The rural economies



are victims of their own success in luring economic development. Now just wait for the water wars.

Next, the Governor berates the federal Environmental Protection Agency for the clean air measures in the Phoenix area: sending state employees home early (to tie up traffic and go shopping), restricting fireplace burning and introduction of the IM-240 auto emissions test. On all counts, these were decisions made by the governor's office and the state legislature, prodded by the Maricopa Association of Governments.

Finally the Governor stated he will fire any state agency director who does not respect "private property rights" as outlined in an executive directive. Let's amble back through the U.S. and the Arizona Constitutions and you will find, surprise, it's already in there! Let's remember the red-tape making, taxpayer blank check writing Proposition 300 was given a big fat NO by voters. Respect property rights? YES. Pay someone to obey the law so my property value doesn't go down? GET REAL.

In all fairness, I pick on my fellow Republicans because I know how easy it is to check the facts and get both sides. So when they don't, it's only fair to point it out; I know they can do better. And one thing I must say on behalf of Governor Symington: I really liked his idea about yanking the hunting licenses of deadbeat parents. Really, how better to get Bubba to pay his child support?

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9 Bill McGibbon (R)	19 S. Bundgaard (R)	29 M. Anderson (R)
Lou-Ann Preble (R)	Dave Eberhart (R)	P. Mortensen (R)
10 C. Cajero (D)	20 Robert Blendu (R)	30 Mark Killian (R)
Phillip Hubbard (D)	Kathi Foster (D)	Jeff Groscost (R)

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Contract on America's Environment

The Republican "Contract with America," 10 draft bills the GOP has vowed to push through in the first 100 days of the next Congress, represents a sweeping attempt to remake the way government functions. At first glance, the package has little to say about the environment. But buried within the bills — which sport advertising-slogan names such as the "American Dream Restoration Act" — lie a number of provisions that would indirectly undermine the foundation of environmental, health and safety protections. A sampling:

The Private Property Rights Protection and Compensation Act: Compensates businesses, polluters and others who claim environmental protections reduce their property values by 10 percent or more. This radical reinterpretation of the Constitution could bankrupt governments' ability to enforce and enact environmental, health and safety protections.

The Risk Communication Act: Allows "peer panels" of scientists — including scientists working for the industry being regulated — to reject environmental and public-health protections by claiming they are based on "bad science."

The Federal Regulatory Budget Cost Control Act: Creates an upper limit for the total number of all federal regulations. For example, Environmental Protection Agency regulations to protect children from pesticides in food could be blocked because other agencies had already filled the quota of regulations.

The Administrative Procedure Reform Act: Requires regulations affecting more than 100 people — virtually every federal regulation falls into this category — to be subjected to an elaborate analysis by the Office of Management and Budget.

Mexican Wolf

P.A.W.S. Plans Major Fund Raising for Wolf Compensation Fund

by *Bobbie Holaday*

During 1995, P.A.W.S. (Preserve Arizona's Wolves) members will play a major role in helping Defenders of Wildlife to increase their wolf compensation fund from a little over \$100,000 to \$200,000. The funding campaign will concentrate on sales of a full color Southwestern-style poster featuring a Mexican wolf by award-winning artist Cheyenne McAfee.

The wolf compensation fund initiated in 1988 by Hank Fischer, Northern Rockies field representative for Defenders, is supported solely from members and other wolf advocates who want their money where their mouth is. According to Fischer, "We call this approach 'supply-side environmentalism' and the idea is to use our private resources to pay for environmental solutions instead of waiting around for the government or someone else to do something."

"What we want to do," says Fischer, "is to shift any economic burden associated with wolf recovery away from the individual livestock operator and onto the willing shoulders of the millions of wolf supporters all over the nation. And we thought we'd make it easier for people to contribute their money by providing an outstanding poster in the bargain."

Livestock loss rates in Minnesota, the only state with large wolf populations which has a State-run compensation fund, are only a fraction of one percent. Livestock loss rates in Montana, where wolves have crossed over from Canada, also have been low. Since the inception of the livestock compensation fund, Defenders payments to ranchers in Montana total a little over \$23,000. This includes payments for 13 cows, 20 calves, 3 yearling steers, and 9 sheep. One of these

payments was made to two ranchers in Alberta just minutes across the Montana border. Also included are payments for hay that a rancher used to induce livestock to stay out of wolf prone areas and one rancher "reward" for having breeding wolves on private land.

With the imminent reintroduction of wolves into Yellowstone National Park and Idaho, and the proposed reintroduction of the Mexican wolf into the Southwest in the late 1990's, Defenders believes they must increase this fund to insure that funds are readily available for future livestock losses.

The Mexican Wolf Reintroduction Plan prepared by biologists of the Arizona Game and Fish Department includes use of the Defenders fund to provide compensation for livestock losses. At recent public meetings where this plan was discussed, ranchers continued to express concern that the Defenders fund may play out and they will be left with no compensation for their losses.

P.A.W.S. members believe that they must actively promote poster sales to demonstrate their support for the compensation fund. Watch for announcements in the news media, in magazine ads, displays in retail stores, and at local events. In addition, P.A.W.S. members will supply fulfillment for all posters through Defenders by prepared mailings.

Bobbie Holaday, Executive Director of Preserve Arizona's Wolves, has recently been awarded a Volunteer Service Award from the Arizona Heritage Alliance for founding P.A.W.S. which supports the preservation and restoration of the Mexican Wolf in the Southwest. □

USFWS Announces Schedule for Draft EIS on Mexican Wolf

In a recent status report, David Parsons announced an approximate schedule for the Draft Environmental Impact Statement (DEIS) for the Mexican wolf reintroduction proposal as follows:

- February 15, 1995: release DEIS to public.
- February 15, 1995 — May 15, 1995: public comment period on DEIS; hold about 15 public meetings in affected areas.
- August 1, 1995: Prepare final EIS.
- October 1, 1995: Agency and Recovery Team review of Final EIS.
- November 1, 1995: Release final EIS to public.

If you are not already on Parson's list to receive copies of the Draft and Final EIS, be sure to contact him and tell him you want your name on the mailing list. It is critically important that we have as many people as possible reviewing and commenting on the DEIS, whether or not they live in the Southwest. Contact David Parsons, U.S. Fish and Wildlife Service, P.O. Box 1306, Albuquerque, NM 87103. Phone: (505)766-2914. □

Proposition 201 - AZ Voters Create Law Public lands trapping a relic of the past

by *Janet Evans, HALT Chairperson*

The election is now behind us. Through the financial contributions and endless volunteer hours of Arizona citizens, and by popular vote, we have become the first state in the history of our country to banish cruel and random trapping practices on our public lands. This effort represents a truly historic accomplishment in which everyone who helped can be proud.

In drafting Proposition 201, we offered a simple, clear choice to the voters that only effected trapping on public lands while clearly protecting hunting and fishing. The voters read Proposition 201 and responded with overwhelming support. Our victory by a 58% to 42% margin represents a strong mandate that trapping practices will not be tolerated on our public lands. The voters saw through the opposition's attempts to discredit us and did not buy the argument that random trapping represents sound wildlife management.

Through Proposition 201, the public was given the opportunity to directly effect the management of their lands. Public lands are a precious resource that belong to all of us. It is both our right and our responsibility to actively participate in the decisions that govern our lands. Public lands can no longer be considered the domain of a few special in-

Letters continued from page 2

the land at WestWorld, and to Rawhide.

Meanwhile, a short distance to the west, Phoenix is considering going down the same road as Scottsdale. The Parks Department proposes to blade under part of Reach II Recreation Area to make room for an exclusive golf course. According to the draft plan, if the high-priced golf course makes enough money the developer will proceed with a second golf course priced for Joe Citizen. TPC is right across the street and six private golf courses are planned for the area. At a minimum, the Reach II course will compete unfairly with the private courses. If it loses money, Phoenix taxpayers will be left holding the bag.

The Phoenix plan is bad for local and Federal taxpayers, bad for the equestrians, cyclists, and hikers who use the area now, bad for the environment and bad for business. Let's hope Phoenix learns a lesson from Scottsdale. Hooray for the cowboys!

Chris Gehlker, Palo Verde Group, Phoenix

Editor:

I am writing to inform you that, effective immediately, I am canceling my Sierra Club membership and no longer wish to receive the Canyon Echo. Although I have great respect for the history and tradition of your organization which I have admired and supported for some

Commission Votes on Wolf

Continued from page 1

testimony by the opposition. Most of the comments by wolf supporters were rational and reasonable in comparison to the doomsday warnings and threats of legal action by the opposition.

None of the Commissioners concerns have anything to do with the available habitat for wolves in Arizona. Johnson told the Commission that habitat destruction was not a factor in eliminating the wolf from the American Southwest, and is not a factor in determining whether to reintroduce it.

"Millions of acres of apparently suitable Mexican wolf habitat exist on public lands today. Nor are human health or safety a factor, as no human has ever been killed by a wild wolf in North America." Johnson cited examples from Montana, Minnesota, Wisconsin and Michigan where wolves, people, livestock and big game coexist with minimal, if any impacts.

"Socioeconomic factors, the potential impacts on other human interests such as livestock grazing and outdoor recreation, are the primary concerns in wolf reintroduction. We are satisfied that these impacts will be minimal," Johnson pointed out.

A final vote by the Commission on whether or not to approve wolf reintroduction in Arizona will take place in 1995. The outcome of that vote is very much in question at this juncture. In the meantime, we wolf supporters have our work cut out for us. It is important that we continue to establish outreach programs which provide accurate information about Mexican wolves.

If you have not already done so, contact Dan Groebner, Wolf Biologist for the AZGFD, and ask him to add your name to his list of the Department's Mexican Wolf Newsletter. This will keep you up to date on the status of the Mexican wolf in Arizona and let you know about important future meetings. Contact Dan Groebner, Arizona Game and Fish Department, 2221 W. Greenway Rd., Phoenix, AZ 85023. Phone (602)789-3576.

Much of the information in this article is courtesy of the AGFD's Mexican Wolf Project Update newsletter. □

terest groups and their management must reflect the will of the majority of our citizens.

Help Abolish Leghold Traps (HALT) will remain vigilant to ensure that the will of the people is honored and that any attempts by our opponents to re-introduce public land trapping through the legislature or by initiative will not go unanswered.

We thank the voters of Arizona for believing in us and for supporting the volunteer efforts of so many of their fellow Arizonans. Our public lands are now much safer and the steel jaw trap has become a barbaric relic of the past, no longer acceptable to our 21st century society. On behalf of everyone with HALT, thank you. □

time, I have become very concerned in recent years with the Club's increasing propensity to take radical, sometimes simplistic, positions on complex issues. The irresponsibility and alarmist article on Mt. Graham that appeared in your September 1994 issue of the Canyon Echo was the last straw!

Most regrettably, readers unfamiliar with the Mt. Graham project might believe Bob Witzemans account of chicanery, wrongdoing and worse on the part of the University Arizona, its scientific partners and several Federal agencies. The article, written in zealot's language more appropriate to the National Inquirer or Rush Limbaugh than a Sierra Club publication, conveniently omits the following relevant information:

1. The Mt. Graham project involves the construction of telescopes, with an access road, on a site of only some 13-14 acres in an area of tens of thousands of acres. It is hardly a "development" like a housing subdivision or a major highway; once the instruments are in place, small groups of scientists will be on site on a regular basis; in short, probably less of a threat to Mt. Graham than the Lowell Observatory is to Mars Hill here in Flagstaff.

2. Surveys of the red squirrel population over the past three years show that the population is growing — not being threatened — and is, in any event, not even concentrated at the site

Continued on page 8

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The \$210 tuition includes a map, engineer field notebook, course materials and eight meals. Silva Ranger, type 15CL, 360 degree compass may be purchased for \$45 or rented for \$10. Pick-up time is 9 p.m. Friday, March 31 near Roosevelt Lake, return is 7 p.m. Monday, April 3.

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Health Concerns Surround Lignosulfonate Use: Dioxin Found

Prescott area residents report medical problems associated with dust retardant on roads

by Elaine Sisler, Yavapai Group

Controversy continues to surround the dust control measures used by Yavapai County on its many dirt roads. Increasing numbers of county residents are reporting health problems that they attribute to lignosulfonates, a dust retardant product, which was widely sprayed on county roads. Lignosulfonates are now known to contain two toxic chemicals, dioxin and sulfites.

In a meeting of the Yavapai County Board of Supervisors on November 14, County Engineer Richard Straub reported that laboratory testing had found traces of dioxin in the lignosulfonate product the county was using. Testing had been ordered by the supervisors, who were concerned by controversy over whether the product contained dioxin.

In the meeting, audience members who had suffered severe health problems after exposure to roads treated with lignosulfonates also addressed the supervisors, urging safer dust control measures. The Board is now publicly reconsidering its decision to use lignosulfonates, and is exploring alternative plans.

In a phone call to this reporter on November 15, County Supervisor Gheral Brownlow stated that the supervisors had decided to discontinue use of lignosulfonates. "We made a mistake," he said.

Dioxin: EPA reports there are no safe levels

Only traces of dioxin were found in the lignosulfonate sample — 3.2 parts per trillion. However, many county residents are still concerned due to dioxin's extreme toxicity, its tendency to gradually accumulate in the body's fatty tissues, and its slow decomposition (it has a ten year half-life). These residents feel that living close to a treated road would give them daily exposure to the chemical, especially when dust from the road is inhaled.

Scientific evidence has accumulated that minute doses of dioxin can be dangerous. Studies have found that doses as low as one-trillionth of an animal's body weight have been correlated to cancer, reproductive problems, and birth defects. After studies of dioxin levels in the Great Lakes in the early 1980's, EPA scientists in internal communications predicted cancer rates as high as 1 per 100 among people who ate one meal of Great Lakes fish weekly containing dioxin levels at only 10 parts per trillion.

After 3 1/2 years of research, the Environmental Protection Agency recently released a 2000-page report which concludes that there are NO safe levels of exposure to dioxin. The report warns that dioxin even in trace amounts can cause widespread damage to the body. It not only triggers many types of cancer itself, but can encourage the growth of cancers caused by other

After 3 1/2 years of research, the Environmental Protection Agency recently released a 2000-page report which concludes that there are NO safe levels of exposure to dioxin.

factors. It has a destructive effect on many body hormones, especially those related to reproduction — it can depress testosterone, inhibit sperm formation, suppress ovulation, lower sex drive, trigger miscarriages, and cause brain damage and other birth defects in developing fetuses. It can seriously depress the immune system, lowering the resistance to disease. There are also correlations between dioxin and diabetes, suggesting that it may affect insulin, which regulates blood sugar.

What are Lignosulfonates?

Both lignosulfonates and dioxin are waste products of the paper manufacturing process. Lignosulfonates are created when lignin, a natural adhesive that holds wood fibers together, is released from wood using a sulfite pulping process. The result is a naturally adhesive substance that can cause dust particles to stick together, hence its use as a dust retardant. Due to this adhesive quality, lignosulfonates are widely used for many other purposes, such as a binder in animal feeds and an adhesive in many construction materials.

Dioxin can contaminate lignosulfonates because it is created when chlorine is added to paper pulp during the bleaching process. If the lignosulfonates are removed from the pulp after the chlorine has been added, they are likely to be contaminated with dioxin. The level of contamination can vary from batch to batch.

Reports of health problems increase

Public outcry against use of lignosulfonates in Yavapai County has grown as reports increase that people have fallen ill after exposure to treated roads. While the majority of residents have not

experienced health problems, a significant minority have suffered symptoms ranging from mild to life-threatening. Because of its clean air and mild climate, Yavapai County has been a magnet to allergy sufferers, lung patients, and chemically sensitive individuals. Many of these people are particularly vulnerable. However, normally healthy people have also been stricken.

Focus on health problems caused by lignosulfonates first arose in Yavapai County in 1989. A chemically sensitive woman, Susan Marcey, suffered convulsions and other severe symptoms after Henderson Road in Dewey was sprayed with the product. Because Marcey's symptoms were serious enough to force her from her home if spraying continued, the County reached a legal agreement with her that they would never again apply lignosulfonates to that road.

However, in August 1994, the County violated this agreement and again applied lignosulfonates to the road, apparently due to an oversight. This time, both Marcey and her mother fell extremely ill. Also, eight other people who traveled on the road became ill with complaints such as bad headaches, dizziness, nausea, lingering fatigue, and a spectrum of other symptoms. Some individuals stricken had previously suffered from chemical sensitivity, while others had been healthy before they were exposed. Red-faced County officials agreed to scrape the chemical off the road. Two feet of the road surface was removed, at considerable expense.

Finally, in the fall of 1994, an aggressive telephone and letter-writing campaign by concerned citizens obtained a moratorium on lignosulfonate spraying from the Yavapai County Board of Supervisors, pending further fact-finding.

Unfortunately, this action did not end the problem. Material removed from Henderson Road was spread on other roads in the Dewey area. Immediately, two other women became seriously ill. Reports also came that other previously healthy residents of the area were experiencing unusual symptoms, such as painful sinus problems.

At the same time, the County was applying lignosulfonates in other areas. Each application seemed to be followed by complaints of illness in the area. After roads were sprayed in the Hokayan development in Prescott, a woman there became ill with asthmatic attacks, fatigue, nausea, and chest pains. Her symptoms have worsened in severity over time, especially when the road is graded or in wet weather (there have been several reports that wetness seems to reactivate the impact of the lignosulfonates). Visitors to her house also reported feeling ill after driving over treated roads.

When roads were sprayed in Chino Valley, a woman there immediately developed muscle pain, flushing, shortness of breath, nausea, and swollen lymph nodes. Each time she drove on the road, these symptoms were exacerbated.

Five people became ill in the Highland Pines development in Prescott after lignosulfonates were applied there in June 1994. They suffered from a mysterious flu-like illness that lingered for up to six months. All had been previously healthy. They reported sinus, throat, and lung problems, strange coughing spells, nausea, and persistent tiredness. These symptoms worsened after a second lignosulfonates application in August, and became worse when the road was graded and during wet weather.

Some county residents suffering from acute symptoms have repeatedly tried to get a list of treated roads from the County. After considerable delay, the County released only a partial list. These individuals report they are afraid to travel on dirt roads in the county, because they don't know which roads may make them ill.

Sulfites trigger allergic reactions

It is not believed that these rapid-onset symptoms are caused by exposure to dioxin. Dioxin is more likely to act slowly in the body. Rather, the culprit is believed to be the sulfites found in lignosulfonates (although the product also contains other toxic chemicals such as phenol and benzene).

Sulfites are widely recognized to trigger allergic reactions in sensitive individuals. They are known to be more likely to cause illness when inhaled. Sulfite-laden dust is stirred up by traffic on the treated roads, and is inhaled by drivers and local residents, producing a dangerous reaction in some. This contaminated dust can drift some distance, settling in nearby yards and homes.

Symptoms worsen after road grading

In a phone conversation, County Supervisor Gheral Brownlow commented that there had been another problem with the lignosulfonates: the product sets into a hard crust, which causes potholes to form. Consequently, treated roads require frequent grading to remove the potholes.

This repetitious grading of the treated roads is devastating to the lives of some residents sensitive to lignosulfonates. Each time the grading is done, their symptoms worsen. Lignosulfonates decompose very slowly, and may become more toxic as they decompose. Consequently, even though spraying has been halted, these residents continue to suffer health problems.

Dewey resident Paula Gerber and her mother became so severely ill when their road is graded that they must flee their home whenever it occurs. Recently they vacated their home for five days, only to find new potholes already forming upon their return. Despite elaborate precautions to protect her home from the dust, Gerber became ill within five minutes of returning home. Soon after, bleeding sores developed in and around her mouth. Both women continue to suffer from a steady stream of serious symptoms. Gerber, who lived in her home for three years in steadily improving health before the spraying, now plans to sell her home to escape the lignosulfonate exposure.

Finally, in the fall of 1994, an aggressive telephone and letter-writing campaign by concerned citizens obtained a moratorium on lignosulfonate spraying from the Yavapai County Board of Supervisors, pending further fact-finding. The issue was then addressed in the November 14 Board of Supervisors meeting, and it now appears that the County will permanently discontinue use of lignosulfonates.

Solutions?

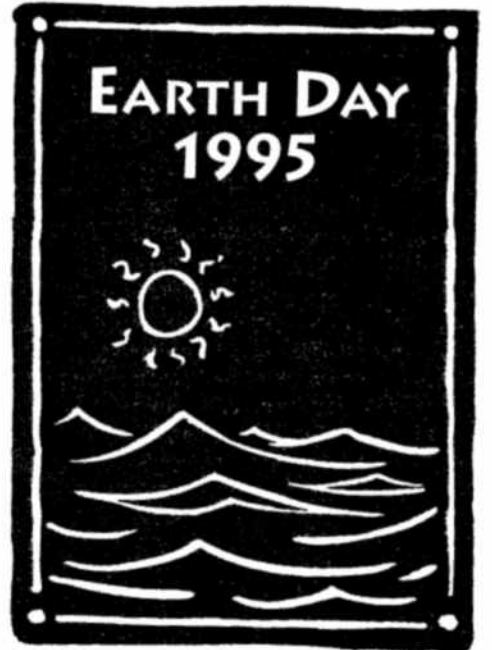
The Yavapai County Supervisors are now considering using magnesium chloride as an alternative to lignosulfonates. However, this product can sometimes contain sulfites, and sulfite-sensitive residents are asking that only a sulfite-free compound be used.

The Supervisors are also considering a plan to chip seal all roads traveled by over 400 cars per day, and to spray a dust abatement product on remaining low-traffic roads only upon a request

by local residents. County Engineer Richard Straub maintains that putting a permanent surface on the high-traffic roads would be cheaper in the long run than continuing to spray and then grade the roads several times yearly. However, short-term funding limitations may slow the chip sealing of targeted roads. Also, this plan would leave a large number of residential dirt roads unpaved. However, on the low-traffic roads, dust abatement in any form may be unnecessary.

At this time, there have been no final decisions on what dust control plan the County will implement and which dust abatement products it will use. There are also no answers for county residents who continue to be ill from the lignosulfonates still on the roads.

For further information on this issue, please call Elaine Sisler at (602)636-1377. □



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Saving the McDowells

If Ranch Property is developed, magic of McDowells will be lost

by Pete Chasar

Recent articles and editorials describing the new development plan for the massive DC Ranch property in the McDowell Mountains have glossed over some critical information — namely, that the plan includes a road over the top of the mountains that will cut the McDowells in two. Also, much of the development that follows will be in areas designated sensitive by Scottsdale's McDowell Mountains Task Force and its McDowell Sonoran Preserve Commission.

The west-to-east route of this six-mile road generally aligns with Beardsley Road. Starting at about 104th Street, the proposed swath of asphalt will cut through one of the best saguaro forests in the entire Valley. Then, moving east, it will pass over an area strewn with pottery shards and other remnants of an 800-year-old Hohokam village.

As it climbs higher, it will reach an area rich in Native American rock art. It will also pass near a spring that first served wildlife, then Native Americans and, more recently, miners, ranchers and homesteaders.

Worst of all, the road will climb to the top of a picturesque mountain pass, creating a dividing line in the mountains that will become a barrier to wildlife and a visible scar to residents and tourists.

The planned road will not even stop there. After crossing the mountain pass, it is designed to cut a path south along the un-

spoiled eastern slopes of McDowell peak, a place where now only deer, javelina, ringtails and other wildlife make tracks. Finally, after crossing another mile of lush desert foothills, it will terminate near Fountain Hills.

Of course, where roads go, development is destined to follow, and this road is no exception. The new pavement will sow the seeds of development along its route. A golf course, resort and homes will grow up on land where the saguaro forest now thrives. Near the Hohokam village site, the rock art, the spring and on unspoiled eastern slopes,

erness trek through the Sonoran desert — the wild, saguaro-studded beauty of Beardsley Wash, the exhilaration of seeing water flow from a desert spring, the refreshing views of the Verde River Valley after the stimulating ascent of Wingate pass, the stunning silhouette of a mule deer buck against the pure-blue desert sky.

Once this road and the clusters of palatial homes take over the landscape — no matter how sensitively they are designed and built — the magic will be gone. The road will cleave the McDowells in two, mar the now-unscarred beauty of their desert slopes, chase away wildlife and reduce one of the best outdoor experiences in Arizona to a drive through several upscale subdivisions.

In short, there are simply some places in America where no development should take place. For example, would the Grand Canyon be the same if there were roads that took you into it and posh homes and resorts at the bottom?

The McDowell Mountains also have a uniqueness that makes them more valuable to the community as open space than as urban space. That is why the McDowell Mountains Task Force recommended that a preserve be created in the McDowells and that "roadway" construction be excluded from that preserve.

Today, the McDowell Sonoran Preserve consists of three unconnected pieces of land totaling just 4½ Square miles (less than 20 percent of the McDowells). The plan for the DC Ranch property could add another six square miles of open space, but it is unclear whether this land would be accessible to the public. Plus, that plan creates a six-mile road that will cut the McDowells in two and pave the way for development of several sensitive areas.

Faced with a similar problem more than 20 years ago, residents of Phoenix voted to tax themselves to save privately owned mountain lands from development. Hopeful

ly, residents of Scottsdale will realize that preservation will cost them less in the long run than a road through their magnificent McDowells. □

Pete Chasar, owner of a Phoenix advertising and design firm, is an advocate for protecting the phoenix Mountain Preserves and other areas.

"Do you think you can take on the Earth and improve it? I do not believe it can be done. If you try to change it, you will ruin it. If you try to hold it, you will lose it."

- Lao Tsu, Tao Te Ching

Free lunch for developers must end

by John Nichols

Whenever private citizens express concern about uncontrolled, runaway development, the development community becomes indignant. They reply that as property owners they have the right to do what they want with their property and that no one has the right to interfere with their right to earn money developing their property. These are fundamental rights, consistent with sound principles of capitalism. However, the taxpayer public should have equal rights. They should not have to spend their hard earned dollars helping developers earn this profit, as many developers have come to expect. Private capital — investment dollars — should be used to pay the up-front costs of development.

What are these costs? Raw land must be prepared before development can occur. Roads, sidewalks, sewers, and utilities must be installed. Drainage must be given careful consideration. These are often referred to as infrastructure costs. Today, most municipalities insist that developers pay these costs before residential or commercial building can begin. Rightly so! But this is only part of infrastructure cost.

Infrastructure costs also include other high ticket items that are primarily the responsibility of the taxpayer. These include schools, police, fire, garbage removal and a host of other municipal services including the cost of paying interest on the bonding required to pay for, and maintain, these services. For example, building schools is enormously expensive. A single school may require up-front investment of tens of millions of dollars. Subsequently, each school requires an operating budget in the millions of dollars. Fire and police services also require a large up-front investment. Facilities and fire-engines, emergency rescue equipment, and police cars also are big ticket items, to name a few. Each municipal service requires similar up-front costs, and has ongoing operating and maintenance expenses.

In the future, every city in the Valley of the Sun should prepare a detailed analysis on total infrastructure costs for each development as well as evaluating downstream operating and maintenance costs for each municipal service. Developers should be required to pay their fair share of these costs, in advance, before their developments are approved. I commend the City of Phoenix for seriously considering a moratorium on development on the north side of the City. I urge Scottsdale and our other cities to do the same. We should take a hard look at infrastructure costs and enact municipal legislation addressing this serious issue. The free lunch for developers must end! □



clusters of luxury homes will sprout. On top of the highly visible mountain pass, where now only cholla, sage and palo verde grow, an "Alpine village" will take root. And on top of a rugged northern peak, several palatial homes will spring up among the boulders.

For decades, the same route proposed for this road was used by equestrians and hikers to experience all of the wonders of a wild-

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FEB. 27 — MARCH 4

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- ◆ A public forum to be held at the downtown Scottsdale Library in conjunction with their grand remodeling festivities.
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- ◆ Hike-a-thon for the public Sat., March 4, beginning at WestWorld.
- ◆ Much, much more!

Please plan to join us. Even plan your own events to celebrate the importance of our McDowell Mountains and Sonoran Desert.

Dastardly Deeds, Politics, and Profits

by Geoffrey Platts

It's bad, very bad. It's opposite Desert Mountain's seas of green on the other side of Cave Creek road, 2 1/2 miles from the Bartlett/Horseshoe turnoff. Look for the red Realtor's sign.

A dirt road of monstrous width (80 feet in places) has been cut into the desert from the highway. Eighty feet... that's four times the width of the highway pavement nearby.

There are signs that say, "No Trespassing" (the ultimate trespass has already been perpetuated on the Sonoran) and, "Danger, Keep Out." (Danger from what? Ripping, rampant bulldozers, more likely. Certainly danger to native habitat.)

Even Desert Mountain, persisting in its plowing under of the native for their non-native greens, must be wincing at the carnage across the way.

Who did the dastardly deed? Some fly-by-night operator perhaps. Looks like the work of one since there's no construction company name in sight. The Realtor's name is surely

visible, bold and brash. We're shocked to find it's a familiar one... Russ Lyon Realty, no less. Not the local branch — but Phoenix, probably.

A pair of brothers (?), Troy and Todd Willenwater, have proudly put their names to this desert road-hacking.

Be sure to see for yourself and then call Russ Lyon himself... good God, if Russ Lyon Realty can put their name to this kind of '50's butchery in our supposedly desert-aware Foothills, then what hope is there for the rest of that trade?

For all the Democrat losses in the election, it is both curious and heartening to see virtually all the GOP-supported initiatives take a drubbing.

Every "keen green" rejoiced at the passage of Prop. 201, which banned the medieval leghold traps on public lands. The steadfast campaigners, led by Lisa and Gil Shaw and Janet Evans, fought the good fight

with all their might — and won the day. Marvelous.

And another tremendous battle against the black knights of the special interests was waged against Prop. 300 by the grassroots brigade led so ably by the Sierra Club — and also won.

We trust that Speaker of the House Killian (of "Mark is Killian our desert" fame) will have gotten the message loud and clear from the Arizona voters that they want no part of his damaging "wise use" agenda.

To give you an example of the thinking of the "wise-users" (what an oxymoron), here's a comment by County Supervisor Tom Rawles (re: the proposed New River mall) — "People have the right to do what they want unless they totally destroy other people." (Phoenix Gazette, Oct. 21, 1994.)

Heaven help civilized society from the Rawles's of this world.

Note that Sonoran North was there at that hearing, faithfully working at stemming the tide. Rush to S.N.'s side; they are nothing

less than hope for the future.

It was reported in The Arizona Republic (Oct. 25, 1994) that Del Webb Corp. (of Terravita notoriety and Lake Powell trash-dumping infamy) had nearly tripled its profits in its first fiscal quarter. Phelps-Dodge and Magma, mega-miners, also spoke of huge profits recently.

You'll note that there is no moral ceiling to corporate profit... double, triple, quadruple, quintuple! "MORE!" is the company cry, never "moderation!", never "less!"

But what does unbridled "More!" do to the land (never mind our spirits)? Look at Terravita, Tatum Ranch; look at the Lavendar Pit copper mine in Bisbee.

We need more of less and less of more — if we are to come through as a sane and stable society.

Ed. note: This article was reprinted from the Foothills Sentinel (Nov. 23, 1994).

McDowell Mountain Forum a Success

by Cynthia Lukas

On November 16 the McDowell Sonoran Land Trust held a free Public Forum entitled "Recreational Opportunities in the McDowells" at Brett's Barn, Westworld. Emcee was Chairman Christine Kovach. Representatives from recreational interests, the Mountaineers, the Sierra Club, High Sonoran Adventures, Ranch Cyclery, Arizona Mountaineering Club, and Liberty Wildlife, the latter of whom wowed the crowd with its two birds, were on hand to meet with attendees prior to the program.

Richard Stevens, member of the Western Task Force and Chamber Visitor Committee, set the stage by speaking about the "Potential Loss of Recreational Opportunities and

Parallels Between Arizona and California." Stevens said, "If you save these mountains, you might save Scottsdale."

Then Bill Ensign, Preservation Commission, discussed "the Delicate Balance Between Access and Preservation." He said, "I am excited about the Preserve but also cautious about the impact on the environment." He spoke of the need for the Commission to establish guidelines for the Preserve. "We will need to say no to certain uses that may not be for the best."

Mary Irish of the Desert Botanical Garden spoke about "The Uniqueness of the Sonoran Desert: Birds and Flora." She discussed the diversity and interweaving of parts of the ecosystem and showed us slides

of plants and birds, such as the Gambel's Quail and Harris Hawk, that are found only in the Sonoran Desert.

Margaret Bohannon of State Parks referred to studies, such as the President's Commission, that conclude there is a connection between recreation and both family values and less crime. "Scottsdale could be on the cutting edge of saving this pristine place for the Preserve," she said. Jeanne Trupiano, also of State Parks spoke about "Planning for Passive Recreation in Preserve Areas," such as Sonoita Creek near Tucson.

The program ended with Robert Toubman, General Manager of Regal McCormick Ranch and Member of the Visitor Industry Advisory Committee, who discussed the

"Importance of Open Space and the Mountains to Tourism," Scottsdale's number one industry. He alluded to the Campbell Report, which discovered that the reason people who can afford to go anywhere return to Scottsdale is the environment. He spoke of the "emotional connection" of tourists to their environment.

Indeed, he and each speaker exhibited an "emotional connection" to the McDowells and the Sonoran Desert. We can only hope that the 100 plus who attended the Forum and the hundreds more who will view it on City Cable 7, (thanks to Ralph Mueller who was there to film it), will be stirred to action.

Cynthia Lukas is the editor of "Mountain Lines" a newsletter of the McDowell Sonoran Land Trust. □

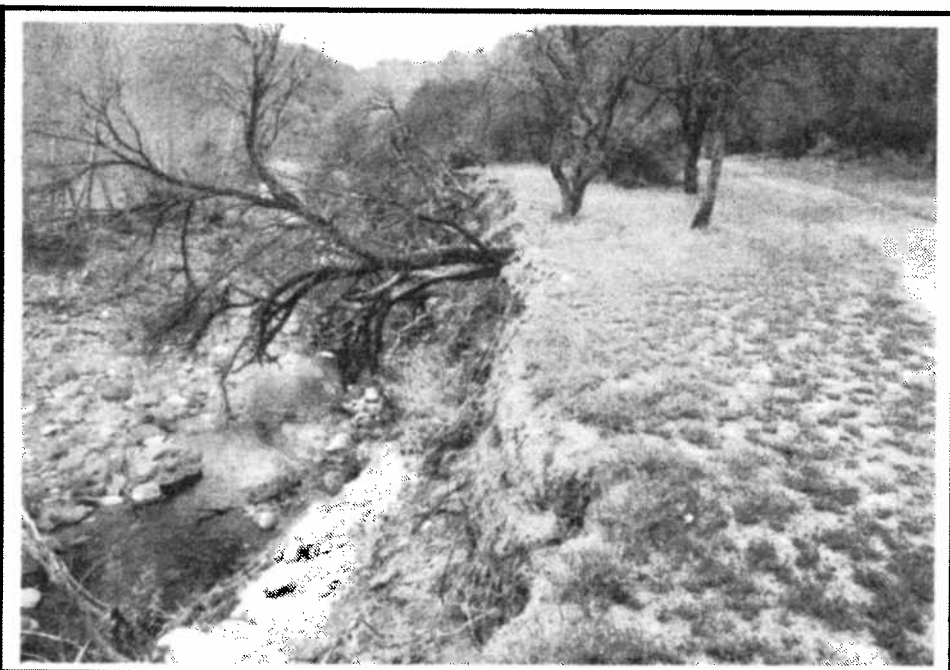
Grazing Action Alert

Tonto National forest gathering input on Cartwright allotment

by Jeff Burgess

The Tonto National Forest is gathering public input in order to formulate a new livestock management plan for the 55,000 acre Cartwright grazing allotment. The allotment is located in the hills just north of the towns of Cave Creek and Carefree and encompasses the Seven Springs recreational complex and two perennial desert streams, Cave Creek and Lime Creek. A herd of 390 cattle currently graze the allotment's Cave Creek basin and there's another herd of 100 head in the Lime Creek basin. The riparian habitats along both streams are in poor condition, primarily due to livestock grazing, as are much of the allotment's uplands. Existing fences divide the allotment in to nine main pastures. But there are few fences in place along the two creeks and it would be too

difficult and expensive to fence the streams off entirely. Livestock management options for the allotment are further limited by the Tonto's refusal to consider reducing the number of cattle. Instead, they have proposed adding an adjacent ungrazed area southeast of the allotment on to it so the cattle can be spread over a larger area. Considering the poor ecological condition of the allotment, it's high recreational value and the difficulty of adequately managing livestock on it, the Forest Service should be encouraged to seriously consider reducing or ending grazing. Anyone interested in the Forest Service's decision for this allotment should contact Patti Fenner at the Tonto's Cave Creek Ranger District, P.O. Box 5068, Carefree, AZ, 85377, or call her at 488-3441. □



Erosion accelerated by overgrazing. Cave Creek, Tonto NF April 1994.

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Grass Roots Giving

An End-of-Year Message from the Treasurer

by Roy Emrick, Chapter Treasurer

Do you screen your phone calls because eight out of ten are from people asking for money? I do. A significant fraction of them are from environmental groups, all doing important work, but enough is enough. As treasurer, I get many notes from members saying they can't give any more money, please don't make any more requests. Since it is the national organization which makes the calls, I don't have any control over them, but I am going to give some suggestions.

- Choose the organization(s) you are going to support (and I hope Sierra Club is one of them), decide what you can give and after that just say no, without regret.

- Donate your time: in a grassroots organization, workers are necessary to accomplish the group's goals.

- **RECRUIT NEW MEMBERS.** I'll get to the importance of this later.

- Give memberships as Christmas presents, renew your own membership.

- Make a **TAX DEDUCTIBLE** contribution to the Grand Canyon Chapter Foundation.

Today's (19 November 1994) newspaper carried an article stating that the National Sierra Club, the nation's oldest environmental organization, is reducing its staff 10% because of a \$2.9 million debt. This debt is due mainly to a decrease in membership. "The group attributed the losses to hard economic times and a decline in compassion for the poor, the environment and other public-interest concerns." Decreasing membership means decreased income to National, but also to the Chapter and local groups. We (the GC Chapter) receive a percentage of the national membership dues and the Chapter passes on a percentage of that to the Group. Thus, with decreased income from national dues, the Chapter must

raise more locally to continue its work. And there is much work to be done:

With a Republican-controlled Congress, the attacks on the environment will be more frequent and more severe. Arizona Senator-elect Kyl has already announced his plans to weaken environmental protections. "Getting the government off our backs" means even fewer meat inspectors (remember the children who died from eating contaminated burgers?), air/water/pesticide regulations, etc. It means more public lands will be effectively given away to private organizations as under Watt and his Republican successors. The 1872 Mining Law will stand, allowing our resources to continue to be taken for a song, public lands will continue to be over-grazed for pennies an acre. . . .

Through our lobbyist, the Grand Canyon Chapter has made a difference in Arizona. This difference costs money. As treasurer for the past three years, I have watched our reserves dwindle and our income shrink. To continue our effectiveness, we will need either a great number of volunteers to do the lobbying, organizing, testifying, etc. or a greatly increased income due to an increased membership.

Thus, in lieu of financial contributions, encourage friends and acquaintances to become members. If you don't want to make a non-deductible contribution to the General Fund, you can make one that IS tax deductible to the Foundation account. These funds help our educational efforts, support almost half of the Echo expenses and aid our hired gun's educational program. Please consider a tax deductible donation to the Grand Canyon Chapter Foundation. (Foundation is the keyword to put on the check to make it tax deductible.) Contact the Chapter Office in Phoenix or the Treasurer in Tucson for further information. □

Letters *continued from page 4*

chosen for the telescopes.

3. The University of Arizona and its scientific partners have complied with biological surveys done by Federal scientists; no evidence is given in the article that those Federal scientists are either incompetent or corrupt.

4. Likewise, no evidence is given in the article for the absurd claim that the University intends to "browbeat the agencies into allowing the project to extend anywhere and everywhere across the mountain, and to violate every law in the book. . . ." Why would a team of scientists, who need to share facilities and data, want to end up all over the mountain, particularly when there is only one access road? This suggests, secondarily, that Mr. Witzeman is ignorant of the modus operandi of astronomers.

Sensational, lurid journalism aside, I cannot support an organization that so clearly fails to maintain a balance between the need to protect natural resources, on the one hand, and the need to advance scientific, educational and social goals on the other, not to mention integrity in reporting. The surrealistic legal battles over Mt. Graham are becoming an inexcusable inconvenience and unnecessary nuisance to the international scientific community. They are also a hardship for many poor families in eastern Arizona for whom the Mt. Graham project means jobs. Furthermore, this does not even address the ongoing drain on public funds required to process the endless legal subterfuges you support in this issue. You are losing your credibility as responsible public citizens.

- Benjamin F. Brown, Flagstaff

Bob Witzeman

"Setting The Record Straight"

The Earth belongs as much to those who follow us as much as it does to us.

(John Ruskin 1819-1900)

Benjamin Brown's letter provides an opportunity to update Arizona newcomers or those like Brown who have not read past Echo coverage about Mt. Graham.

Brown states that the observatory would use only "some 13-14 acres in an area of tens of thousands of acres." He confuses quantity with quality. UA insisted on deforesting the heart of a tiny, vulnerable 600-acre remnant, virgin, spruce-fir forest on the summit of Mt. Graham. This very small summit forest is of immeasurable biological and evolutionary significance. No other Arizona "sky islands" possess a spruce-fir subalpine forest ecosystem or red squirrels.

Though there are many other superior observatory sites in U.S., UA demanded to build in the heart of an irreplaceable ecological treasure because they considered it close, cheap and handy. Government studies declared that the UA's 24-acre (not 13-14 as Brown states) deforestation which Congress authorized would permanently destroy 129 acres or 25% of the squirrel's "best" 472 acres of habitat. This is the result of "edge effect" desiccation of the adjacent forest. A moist, cool subalpine ecosystem is critical to the squirrel's ecological needs.

The National Environmental Policy Act requires that non-destructive project alternatives be considered. To avoid this law UA had Congress exempt the project from it and all other applicable environmental laws. UA's 1988 rider became the first peacetime exemption from all environmental law. The 1982-87 studies for the National Optical Astronomy Observatories (NOAO), representing some 20 leading U.S. university astronomy departments, found 38 better sites in the continental U.S. than Graham. They found Mauna Kea clearly superior to Graham. Particularly decisive was Graham's poorer visibility and fewer viewing nights due to its monsoon and snowstorm-plagued weather. Even worse, NOAO studies warned of problems with Graham's dense forests and flat topography. They subsequently abandoned Graham and went to Mauna Kea and Chile. UA ignored NOAO's warnings and chose one of the flattest, most densely forested areas on Mt. Graham. Four years after

UA lobbied their exemptions from Congress. UA finally got around to their science homework. They discovered they had selected the worst site on Mt. Graham and that another Arizona observatory (Mt. Hopkins) had far superior visibility to any site on Graham. Hence UA's sneak clear-cut attack upon an illegal peak outside the project.

Brown claims that since squirrel numbers have been stable for the last few years its O.K. to build. In reality, population instability is not uncommon in small mammals. In the 1960's it was thought possibly extinct on Mt. Graham. The government first estimated 300 to 500 squirrels in the mid 80's. The first formal census in 1986 estimated 350. It dropped to 100 in 1989 with a cone-crop failure. It could have dropped lower. It is today about where it was when first tallied. Biologists say the squirrel's extinction probability is 30-70% if we do nothing. Further destruction of the animal's best habitat is unthinkable.

Brown declares there is no evidence that UA intends to "browbeat" federal agencies or of "incompetence or corruption." He is apparently unaware the GAO and a congressional investigation, in 1990, showed that Senator McCain, with Sen. DeConcini and Rep. Kolbe present, unleashed a 90 minute verbal tirade against the supervisor of the Coronado National Forest for attempting to comply with U.S. environmental law. McCain told him that he would be sacked if he did not start construction. McCain stated that he had a secret agreement with the Chief of the U.S. Forest Service to fast-track the project. Likewise, 1990 testimony of U.S. Fish and Wildlife Service officials and the GAO before Congress, and in the SCLDF litigation, uncovered a chain of fraudulent, "fudged" decisions and studies in violation of the provisions of the Endangered Species Act (ESA) — to accommodate the demands of the university.

Government reports reveal more squirrels living in the area of the illegal clear-cut in six of the seven years preceding the clear-cut. The agencies clearly worked in collusion with UA to sprawl the project "anywhere and everywhere" despite both biology and congressional law. In November 1993, just days before the secret clear-cut, a hush-hush Forest Service study, lacking qualified peer review, or public or agency distribution, alleged the squirrels had now abandoned the illegal site UA demanded, intimating they would never want to return there — pure science fiction!

Unfortunately Mr. Brown has received misinformation. The UA has circumvented established law, used defective science and relied on scare tactics by saying they would lose their partners. Ironically, UA's U.S. partners have vanished, not wishing to be part of this environmental, human rights and scientific blunder.

It is regrettable that Mr. Brown has seen fit to take such a precipitous, irreversible position based on misinformation. Equally regrettable is Mr. Brown's desire to defend UA's lack of good science, and arrogant circumvention of law.

-Bob Witzeman

The "Sierra Club Board of Directors, in their September 25, 1994 meeting, reaffirmed its authorization to challenge the siting of a University of Arizona telescope on Mt. Graham, a "sky-island" ecosystem which provides habitat for the Mt. Graham red squirrel and Mexican spotted owl, as well as black bears, mountain lions, peregrine falcons, and goshawks." The above is stated in Appendix A, "Proposed Litigation Resolutions for the Sierra Club Executive Committee, Mt. Graham telescope project, Arizona, SC 36-94."

Further, as reported in the Planet, The Sierra Club Activist Monthly, U.S. Judge Alfredo Marquez's injunction on construction of the Mt. Graham telescope was viewed as a victory for the Sierra Club and other members of the Mt. Graham coalition. According to Rob Smith, Southwest field director, "We believed in the merits of this case, but we were not sure which way it would go. I guess what the university was trying to do was so outrageous that even Marquez couldn't ignore it."

"The turning point, according to Eric Glitzenstien, the attorney representing the Sierra Club's Grand Canyon Chapter and other members of the Coalition, came when Marquez was shown how far the university had gone in its efforts to skirt the law."

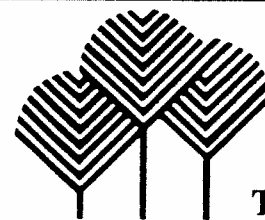
Richard Isetts, Editor

The Commission on the Arizona Environment
presents a conference on
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Attention Sierra Club Students
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The Commission on the Arizona Environment (CAE) will sponsor a seminar, *Perspectives on Environmental Risk Assessment*, Tuesday March 7, 1995, from 8:00 to 5:00 pm. Michael Gregory of the Sierra Club, one of the invited seminar speakers, will discuss comparative risk analysis. For more information please call the Commission on the Arizona Environment at 602-542-2102



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Sedona Verde/Valley Group News

Petroglyphs and Pictographs of the Verde Valley

by Marge Herkenham and Nancy Bihler

Coconino National Forest Archaeologist, Peter Pilles, is the first person to earn the title of National Forest Archaeologist in Arizona and New Mexico. His primary research interests include the archaeology of central Arizona, rock art, ceramics, cultural resource management, settlement archaeology, and public archaeology. Pilles has worked at both the Pueblo Grande Museum in Phoenix and the Museum of Northern Arizona and has an archaeology degree from Arizona State University. He began working for the Forest Service in 1975.

Red Rock Art

Pilles presented "Red Rock Art", a slide show depicting Indian petroglyphs and pictographs, specifically of the Verde Valley. "The Verde Valley is one of the world's greatest art galleries," said Pilles. "An outdoor art gallery where rock art paintings of bygone times may be seen. The curators of these extensive galleries of stone are the Forest Service archeologists and their studies have identified a sequence of styles that span the entire human history of the Verde Valley." The most common question raised by his

audiences is: "What do these images mean?" Pilles explained that there is no definitive answer to this question. The cultures that inscribed or painted these various images have disappeared and the meanings have gone with them.

However, it is thought that much rock art may be connected to religious ceremonials and was largely inscribed by the shamans of the tribe. Rock art was not created specifically as "art" but rather as a record in which artistic qualities were integrated. Designs, scratched or pounded into stone are called petroglyphs. Designs painted on rock are called pictographs.

The Archaic Period

The first people in the Red Rock Canyons belong to the Archaic Period, dating as far back as 8,000 years ago. The earliest style of their rock art consists of petroglyphs of numerous scratched diagonal or straight lines, often forming checkerboard patterns. Archaic pictographs commonly include squiggle lines, rakes, circles, dotted areas, red blobs, and net-like designs, usually in muted hues of white, purple, black, and red.

The Sinagua Period

Rock art blossomed in the Sinagua Period that began about A.D. 650. In the red Rock Canyons, their sites were most numerous between A.D. 1150 and 1300, and are best known from the impressive cliff dwellings of Honanki and Palatki. Representations of animals, altars (spears), human figures, hand prints, and animals appeared as did more abstract symbols such as crosses, circles, giant shields, and basketry-type patterns.

Snakes are the most abundant suggesting they may have been important in the religious concepts of the Sinagua. Some choice pictograph representations were of snakes, done in variations of zigzag line patterns, sometimes multi-colored, sometimes with rattles.

Unique to the Red Rock canyons are large circular shield or sun designs, possibly representing a clan, society, or ceremony. Particularly enchanting characters are the flute players many of which depict Kokopelli, the hump-backed flute player. He is a fertility figure associated with rain and crops. One spectacular slide was of beautifully done petroglyph representation of a deer with very large and exaggerated antlers.

The pigments used in pictographs were ground mineral substances with a binder, and

are commonly red, black, and white. Handprint pictographs may be made by covering the palm surface of the hand with the pigment and pressing it to a rock wall, or may be done as "negative" handprints in which the hand is held to the wall and pigment is blown from the mouth to cover the area where the hand is not placed.

The Historic Period

This period begins in the Verde Valley in A.D. 1583 when Antonio de Espejo's expedition appeared. Horses appear in the rock art from this time on. The Sinagua were replaced by the early Yavapai and Apache who produced rock art into the early 1900's. Yavapai rock art is marked by cruder charcoal and red pigment painted figures, often superimposed over older figures. Some viewers mistake these figures for graffiti and think they were done recently, in imitation of rock art, but they are not. Animals are most common and humans with feathered head dresses may depict warriors or supernatural beings.

In addition to the Yavapai and Apache, Hopi artists also created their art on the sandstone canvases of the canyons. Hopi designs include Kokopellis, katsina masks, and supernaturals such as the God of Fire.

In the Historic Period, the question arises as to when early settlers' signatures are historic; when graffiti? In general, if the settlers' names are recognized and in the historical record they are not considered graffiti.

The petroglyphs and pictographs of the Red Rock Galleries have weathered the ages fairly well, being sheltered from the elements by the recesses and overhanging ledges of the canyons. Some, however, are being damaged by direct exposure to sunlight, water erosion, cattle rubbing, and spalling of the rock due to heat and salt formation.

Pilles added some remarks about leaving all rock art strictly alone. Do not touch! People have done "rubbings" of petroglyphs, thinking it is an acceptable practice. It is not! Damage is done in two ways: One, by mechanical flaking of tiny rock fragments, and secondly, by introducing chemical contamination. Archaeologists are using newer, more accurate methods of dating but once chemical contamination is introduced into a rock art panel, dating becomes impossible.

The old adage still applies: "Take only pictures." □

Sedona Group Member Travels to China

by Nancy Bihler, Group Contributing Editor

Marge Herkenham presented a slide presentation: "China Impressions" at the Sedona Group meeting in December.

Besides a three-week trip in 1993 and a trip to the Orient several years before that, Marge has read a great deal about China. She applied her background of geographical, geological, and ecological experiences while visiting eight major Chinese cities; during a four-day cruise down the Yangtze River, a tour on the Li River, and a visit to the Chinese Wall.

Marge talked about China's severe pollution problems. China runs on coal because it is cheap and plentiful. Coal is used for heating high-rise buildings and apartments, to run steam engine trains, boats, and factories. Brick and charcoal producing kilns are seemingly everywhere. Everybody cooks on charcoal braziers. Cars and trucks are often gridlocked, producing even more pollution. The Yangtze River Dam, although environmentally damaging itself, will help to alleviate coal pollution. Marge had considerable difficulty finding enough available light for photographic exposure because of low air quality in the cities, especially Chongqing (Chungking) where a valley-style air inversion increases pollution.

Marge described the unfortunate destruction of temple interiors, art and written records during the Cultural Revolution (1966-1976). During the difficult years of the "Great Leap Forward" and the Cultural Revolution almost all the trees near heavily populated areas were destroyed for firewood and for the iron producing blast furnaces, or because the trees

were thought to compete with crops. Now, dust storms and erosion problems are commonplace. Spindly windbreaks are being planted everywhere.

Most of the animals were eradicated during this same period. A few dogs are seen in the countryside; none in the cities. There are no cats. Birds were destroyed for food or because they ate crops. The Chinese have great difficulty preserving endangered wildlife because many species are greatly prized for traditional medicinal cures. For example, hawks are illegally sold for high profits.

Marge Herkenham has been a Sierra Club member for 41 years and currently serves as Treasurer and Newsletter Editor for the Sedona-Verde Valley Group. She was born and raised in California and became acquainted with the High Sierras at an early age. Her parents started her out on camping/backpacking trips at age two, and later, at age nine, on horse/mule supported back country trips.

She obtained her MS. Degree from the University of California at Berkeley. In 1942 she was stationed in Yosemite National Park for seven years with husband Norm Herkenham, a National Park Ranger. Her explorations in Yosemite, Yellowstone, and Rocky Mountain National Parks furthered her love of nature and the outdoors.

Marge also taught on the Navajo Indian reservation for eight years, is the only woman past President of the Sedona Westerners Hiking Club, and is a member of the Sedona Photography Club, the Macintosh Computer Club, and an Archaeology club as well. □



Marge Herkenham with statue of a Mongol Warrior.

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ON THE TRAIL

Trip Report

Hassayampa River Canyon Wilderness Area Clean-up Trip: "The Small Miners Mess"

by Jim Vaaler

Trip Leader: Jim Vaaler

Participants: Dan Rupert, John Pamperin, Chris Trask, Stephanie Chambers, Ana Yellen, Mike Brady (not single), Fareed Abou Haider, Chrissy Stam, Lisa Bienstock, Jerome Boucher, Jerry Nelson, Dianne Smith, Lisa Vaaler, Lynn Vaaler, Pete Weinel. (See photo.)

A diverse group of people showed up to make this outing a complete success. Two buildings were cleaned out, partially dismantled, and then knocked over and reduced to piles of lumber. The local rancher, Roy Williams (along with members of his family), helped the BLM haul out the bags of trash and old lumber. The mine

was active from 1984 until wilderness designation in 1990. The miner, Steve Bell (along with the mine's caretaker), was present to help recycle the old lumber. Bill Gibson of the Bureau of Land Management deserves special thanks for coordinating this project and writing the Environmental Assessment.

The work site was located in a Mesquite Bosque adjacent to a historic hard rock mine dating from the early part of this century. A big "Thank You" is in order for all the good people who turned out and helped make the Hassayampa River Canyon Wilderness Area a better place to visit and to enjoy Arizona's great outdoors! THANK YOU! □



Sierra Club (Palo Verde Group - Grand Canyon Chapter) Hassayampa River Canyon Wilderness cleanup.



Santa Catalina Mountains Backpack

Join leader Dean Wallraff and co-leader Joel Golberg on a six day backpack in the scenic, rugged Santa Catalina Mountains near Tucson, March 5-10. Dean is an outings leader from the Los Angeles Chapter of the Sierra Club and is hoping some Arizona hikers will join him on this trek from Romero Canyon, over Mt. Lemon summit (9,100), and down through Bear Canyon. The hike is moderately strenuous — 36 miles, 8,700 ft. Elevation gain in 6 days; the hardest day is 6 miles, 2,800 ft. elevation gain.

Please send an SASE with home and work phone numbers including recent backpack experience and conditioning level to Dean Wallraff, 10211 Sunland Blvd., Shadow Hills CA, 91040-1739. Call (818) 353-8652 for more information. □



From canyons to peaks, complete supplies for the hiker. 24 years of knowledgeable service.



Desert Mountain Sports
2824 E Indian School Rd,
Phoenix, 602-955-2875

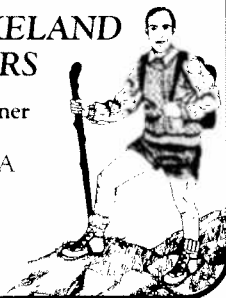
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APRIL 22-23
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MAY 12-14
MOGOLLON RIM COUNTRY, HORTON CREEK

Trips begin Saturday morning, end Sunday evening. Couples will backpack to nearby campsites and relax or dayhike. \$100 per couple.

Begin to enhance your personal relationship in a nearby wilderness

Judith W. Harper, M.C., is a certified Marriage and Family Therapist, a Clinical Member of the American Association of Marriage and Family Therapy and an experienced national hike leader. Her llama couple will be joining us also. Call Judith for information and to get acquainted. 602.956.4211

"The Earth gives life and seeks the man who walks gently upon it."

-Hopi Legend

"Rediscovering Nature is in a way a partial return to the awe and innocence of childhood."

- Geoffrey Platts

"Not to have known, as most men have not, either the mountains or the desert is not to have known oneself."

-Joseph Wood Krutch

"May we all never be judged by anything so harshly or held to as strict a life or unremitting of borders as the ones we try to place on and around wolves."

- Rick Bass, *The Ninemile Wolves*

"May your trails be crooked, winding, lonesome, dangerous, leading to the most amazing view."

- Edward Abbey

Sierra Club 1995

Basic Backpacking Class

"Walking softly in the Wilderness"

Where?

Universalist Church of Phoenix
4027 E. Lincoln Drive
Paradise Valley, Arizona

When?

Mondays: Jan. 30, Feb. 6, 13, 20, and 27.
6:30—9:00 PM

What?

Classes cover compass and map reading, wilderness ethics; equipment, clothing and shelter; menu planning, stoves, and water purification; wilderness medicine and outdoor survival. Field experience includes two day hikes (Feb. 11 and 25) and a graduation overnight backpack (March 11 and 12). There will be a final social potluck

Cost?

\$40.00 includes all classes and outings.
Limit 40 persons.

Make your check out to Sierra Club and mail it with your reservation (name, address, phone) c/o Judith Harper, 3002 N. 27th St., Phoenix, AZ 85016. For further information call Judith: 956-4211 (0) or 956-0364 (H).

Beginners Families Experienced Hikers

MEETINGS and EVENTS

GRAND CANYON CHAPTER You are invited!

The Sierra Club Grand Canyon Chapter is composed of seven groups (see page two for listing) all of which offer opportunities for participation through activities, meetings, and outings. Activity groups can be formed around interests such as photography, bird watching, canoeing, and more. Conservation, political activism, and Sierra Club administrative work are examples of opportunities that start with meeting attendance, which is the first step in getting active. We offer an extensive outings program too. All are open to members and non-members interested in learning more about the Sierra Club. We are working to make this world a better, more livable place. We need your help.

JAN. 28 (SAT) Grand Canyon Chapter Executive Committee Meeting. YWCA, 738 N. 5th Ave., Tucson, first floor conference room. 9:00 a.m. For details and agenda contact Sharon Galbreath, Chapter Chair, 602-774-1571.

FEB 2 (THUR) Canyon Echo Publications Committee Meeting. 7:00 p.m. The "Clubhouse", 516 East Portland, Phoenix. If you are interested in helping produce our newsletter, here's your chance. Contact Rick Isetts, 945-5586.

FEB 27 (MON) Canyon Echo Labels and Mailing. 6:30 p.m. The "Clubhouse", 516 E. Portland St., Phoenix. Many hands make light work. Contact Jerry Nelson, 279-4668.

MAR 6 (MON) Canyon Echo Publications Committee Meeting. 7:00 p.m. The "Clubhouse", 516 East Portland, Phoenix. Contact Rick Isetts, 945-5586.

MAR 27 (MON) Canyon Echo Labels and Mailing. 6:30 p.m. The "Clubhouse", 516 E. Portland St., Phoenix. Contact Jerry Nelson, 279-4668.

Palo Verde Group — Phoenix

FEB Political Committee Meeting. 516 E. Portland St., Phoenix. This month, call Sandy with ideas for alternative meeting plans. Contact Sandy Bahr, Group Political Chair 969-8949, Raena Honan, Legislative Director 253-8633.

FEB 6 (MON) Inner City Outings planning meeting. 516 E. Portland St., Phoenix. 7:00 p.m. Inner City Outings is a community outreach program of the Sierra Club. Our volunteer leaders provide wilderness adventures for people who wouldn't otherwise have them — especially those of low socioeconomic status and diverse cultural and ethnic backgrounds. ICO trips provide an opportunity to discover the beauty of the wild land treasures, and to enjoy these areas without harming them. Fostering teamwork and cooperation are also major aspects of the ICO experience. Participants learn outdoor skills that enable them to face challenges, whether in the wilderness or in the urban environment. Contact Susan Crocker, 893-3887 for more information.

FEB 1 (WED) Outings Planning Meeting. At the "Clubhouse", 516 E. Portland, Phoenix, starting at 7:30 p.m. We'll be planning outings for middle March through April. Both general and singles outings and events will be planned at this meeting. Call Jerry Nelson at 279-4668 for directions or more information. Come lead a hike or just get a jump on upcoming events. All are welcome.

FEB 9 (THUR) Conservation Committee Meeting. 516 E. Portland St., Phoenix. 7:00 p.m. Here's your chance to get active working on local environmental issues. Contact Don Steuter, Group Conservation Chair, 956-5057.

FEB 16 (THUR) Palo Verde Group General Meeting. Los Olivos Senior Center, 2802 East Devonshire, Phoenix. 7:30 p.m. This is one block north of Indian School off 38th Street. Call Chris Gehlker, Group Membership Chair for more information. 866-9024.

FEB 23 (THUR) Palo Verde Group Executive

Committee Meeting. 516 E. Portland St., Phoenix 7:00 p.m. Contact Group Chair, Lynn DeMuth for more information, 966-2154.

MAR 1 (WED) Outings Planning Meeting. At the "Clubhouse", 516 E. Portland, Phoenix, starting at 7:30 p.m. We'll be planning outings for middle March through April. Both general and singles outings and events will be planned at this meeting. Call Jerry Nelson at 279-4668 for directions or more information. Come lead a hike or just get a jump on upcoming events. All are welcome.

MAR 6 (MON) Inner City Outings planning meeting/hike. Squaw Peak Hike. Robert Lievens, hike leader, 484-4068. 6:30 p.m. Contact Susan Crocker, 893-3887 for more information.

Palo Verde Group — Sierra Singles Activities

JAN. 27 (Fri) Singles Potluck Picnic at Squaw Peak Hopi Ramada. Bring dish to share, beverages (no glass containers) and your favorite musical instrument or Karaoke cassette tape. We will munch and mingle creating our own entertainment. Lawn chairs & firewood suggested, liquor permit obtained. Prizes for the most unique hat! Join the fun (5:30 p.m.). For more information call Jim Moir, 944-2777, Phoenix.

FEB 1 (WED) Outings Planning Meeting. At the "Clubhouse", 516 E. Portland, Phoenix, starting at 7:30 p.m. We'll be planning outings for middle March through April. Both general and singles outings and events will be planned at this meeting. Call Jerry Nelson at 279-4668 for directions or more information. Come lead a hike or just get a jump on upcoming events. All are welcome.

FEB 1 (Wed) Sierra Singles Planning Meeting. Planning meeting for Sierra Singles activities. Starts at 7:30 p.m., at the Sierra Club office, 516 E. Portland (one block south of the Papago Freeway, I-10, between 5th and 7th street) in Phoenix. Anyone interested in leading or planning new activities is welcome. For more information, call Sherry Celine, 840-4611.

FEB 1 & 27 Singles Downhill Skiing Day Trip: SnoBowl. We will go up and back to the SnoBowl in Flagstaff for a great day of unlimited ski runs. For more information call Jim Moir, 274-2662, Phoenix February 3 (Fri) Singles Happy Hour at Bobby McGees. 5pm, 1320 W. Southern in Mesa (NE corner Longmore & Southern). Questions call Paul Kezmoh, 831-0987, Phoenix.

FEB 4, 18 & 25 (Sat) Singles Roadrunner Hockey Nights. Saturday, FEB 4 (Minnesota), 18 (Indianapolis) and 26 (Detroit). We will meet at McKennas, 100 W. Clarendon afterwards for dancing. For more information call Jim Moir, 274-2662, Phoenix.

FEB 10 (Fri) Singles Discussion Group Dinner. Discuss relationships and dating. 35th St and Thomas. For reservations call Sherry Celine, 840-4611, Phoenix.

FEB 10 (Fri) Singles Happy Hour: Black Angus Town & Country. 18th St. and Camelback. Meet at 5:30 pm. For more information call Jim Moir, 274-2662.

FEB 12 (Sun) Singles Volleyball. Come out for a few casual games of volleyball. Players of all levels are welcome. We go out for drinks and food after the games. For time and location, call Frank Jesus, 589-0687, or Sharon Schoonover, 964-5665.

FEB 14 (Tue) Sierra Club/Singles 1995 Memorial Day Campout Planning Meeting. Come and join the committee that will plan, coordinate and participate in the 1995 Memorial Day campout. We need volunteers that are willing to help with a wide range of activities. These include day and evening activities for adults and children, registration, phone contact for information, camp greeters, assisting with meal preparation and serving, etc. We are in the initial planning phase, so you can help determine what this year's campout will be like. The meeting will be from 6:00 pm to 8:00 pm at Diane Webster's home. She is located at 8530 E. Northland Drive,

this is in the vicinity of Chaparral and 86th Street. We will provide pizza soft drinks. Please phone Diane Webster, 945-1629 or Chuck Wood, 946-9687 or 809-2408 to let us know if you are coming or to ask questions.

FEB 16 (Thu) Sierra Club General Meeting. Meeting starts at 7:30 p.m., at the Los Olivos Senior Center, 2802 East Devonshire, Phoenix. This is one block north of Indian School off 38th St. This is not just singles, it is the Sierra Club general meeting. Come early to meet and mix.

FEB 17 (Fri) Singles Happy Hour at La Posada Terrace Lounge. Tatum and Lincoln. Meet at 5:30 pm. For more information call Jim Moir, 274-2662.

FEB 24 (Fri) Singles Movie Night. Join us for the award winning movie "Serengeti" and watch Africa and its great wildlife shown in all its splendor on the IMAX six story screen. Meet at 7:00 pm at the IMAX theater in Scottsdale. Dancing afterwards if interested. Call Bala Raman, 844-9850, Phoenix.

FEB 25 (Sat) Party-Party-Party. 7:00 pm at 11th Ave. and Missouri. Bring a snack for 8-10 to share and your own drink. For more information call Sherry Celine, 840-4611, Phoenix.

FEB 25 (Sat) Singles Sponsored Downhill Ski Trip to Sunrise. This is a bus trip with the Alpine Ski Club. The cost is \$66 plus the \$5 annual membership fee (includes the \$30 ski pass). Skis can be rented from Alpine for \$12 a day. Affordable ski packages including lessons and equipment are available through Sunrise Ski Resort. For more information call Richard Balland, 423-8167, Phoenix.

FEB 26 (Sun) Singles Volleyball. Come out for a few casual games of volleyball. Players of all levels are welcome. We go out for drinks and food after the games. For time and location, call Frank Jesus, 589-0687, or Sharon Schoonover, 964-5665.

FEB 28 (Tue) Singles Dinner: Paradise Grill. Meet 6:30 pm at 401 South Mill, Tempe (downtown Mill Ave.). Dancing after? Call Don Hoglund, 968-8910 for reservations.

MAR 1 (WED) Outings Planning Meeting. At the "Clubhouse", 516 E. Portland, Phoenix, starting at 7:30 p.m. We'll be planning outings for middle March through April. Both general and singles outings and events will be planned at this meeting. Call Jerry Nelson at 279-4668 for directions or more information. Come lead a hike or just get a jump on upcoming events. All are welcome.

MAR 4 (Sat) Singles-Sponsored Hayride, Cookout and Dancing. 6:00 pm at Rawhide 23023 N. Scottsdale Rd. \$24.95 (plus tax) includes hayride to the dancing and eating location. 16 oz. T-Bone or 1/2 Chicken, beans, coleslaw, Texas toast, punch, coffee, dessert with a cash bar. Live band from 7:00 pm to 10:00 pm. Pre-Pay by FEB 17 (no refunds). For more information call Richard Balland, 423-8167, Phoenix.

Rincon Group — Tucson

FEB 2 (THUR) Rincon Group Executive Committee Meeting. YWCA, 738 N. 5th Ave., first floor conference room. 7:00 p.m.

FEB 8 (WED) Tucson Inner City Outings "Pizza and Planning" meeting. Bring a couple of dollars for pizza. Call Laura Kerr at 881-8687 for directions to meeting (it's near the U of A). For more information on ICO, see the Feb. 11 Pontatoc Ridge dayhike.

FEB 16 (THUR) Rincon Public Evening and Slide Show. "Black Bears of Southeastern Utah." Scott Richardson, Arizona Game and Fish Department, studied bears in the La Sal mountains east of Moab, Utah for his masters thesis in wildlife ecology. He'll share with us his pictures and stories of ursine adventures. 7:45 p.m., Room 201 of the PAS (Physics) Bldg., on the U of A campus, 4th street east of Park Avenue. Parking is easiest just north or just south of 6th Street, one block east of Park Ave. Contact John Leonard, 621-6874.

FEB 22 (WED) Conservation Committee Meeting. Historic YWCA, 738 N. 5th Ave., first floor conference room. 7:00 p.m.

Rincon Group - Sierra Singles

FEB 4 (SAT) 6:00 p.m. Maya Quetzal, 429 N. 4th Ave. Followed by Contra dancing or Sat. Nite Downtown. Call David Martin, 795-9159.

FEB 12 (SUN) 11:00 a.m. Bike ride. Enjoy a leisurely ride along the Rillito Bike Trail. Bring a lunch and water. Approx. 6 mi. Call Bobbe for information, 886-0052.

FEB 18 (SAT) 6:30 p.m. Dinner at Sakura Teppan Steak & Sushi, 6534 E. Tanque Verde. A great Japanese dinner! Call Meg for information, 290-1723.

FEB 25 (SAT) 6:30 p.m. Potluck at Wendy Herman's. Bring a dish to share, utensils and a drink. Call Wendy for directions, 579-3732.

MAR 4 (SAT) 6:30 p.m. Dinner at The Good Earth. Great food! 6366 E. Broadway. Call Bobbe, 886-0052.

MAR 15 (WED) Do you want to get over the hump of the week? Come for a night of fun and laughter at Laffs Comedy Club. Call Donna for reservations and time, 881-0474.

MAR 18 (SAT) 7:00 p.m. Olympic Flame - Greek food. 7970 E. Broadway. Optional bowling afterward. Call David, 795-9159.

Sedona/Verde Valley Group - Sedona

FEB 1 (WED) Sedona Group General Meeting. Marietta Davenport, U.S. Forest Service "Zone Archaeologist" for the Mormon Lake and Sedona Districts, will speak on "The Wetherill Family." Marietta, who is the great granddaughter to Richard Wetherill, will explain how these early ranchers and self-taught archaeologists made important contributions to Southwest archaeology including such famous sites as Mesa Verde, Chaco Canyon, Grand Gulch, and many others. 7:15 pm., in the Adult Community Center of Sedona located at Harmony Drive and Melody Lane in West Sedona. Guests are welcome at all meetings. For more information contact Betsy Easton, 282-6710 or Nancy Bihler, 282-6190.

Please send meetings and events information typed, double-spaced 30-days before the month of publication. Mail to Mary Hansel, Calendar Editor, Canyon Echo, 516 E. Portland, Phoenix AZ 85004. (Phone 602 947-9325. Feel free to add several lines of copy explaining details of your meeting or event. Special events can be typeset in display format by request. (Advance notice required.) Meetings that occur on regular dates can be submitted once for a full year's run. Please note accordingly. Please remember our two bi-monthly issues and plan ahead. It is important that the collective Arizona membership recognize the activities of all groups. Your announcements are important!

ASU Marshall Lecture Series features Worldwatch Institute President Lester R. Brown

Arizona State University is proud to announce Lester R. Brown, resident and founder of Worldwatch Institute as distinguished lecturer for the upcoming Marshall Lecture Series.

Mr. Brown has an M.S. in agricultural economics from the University of Maryland and an M.P.A. from Harvard. In 1964, he became an adviser to Secretary of Agriculture Orville Freeman on foreign agricultural policy. In 1966, the Secretary appointed him Administrator of the department's International Agricultural Development Service. At the beginning of 1969, he left government to help James Grant, now head of UNICEF, establish the Overseas Development Council.

In 1974, with support of the Rockefeller Brothers Fund, Lester Brown founded the Worldwatch Institute, a private non-profit research institute devoted to the analysis of global environmental issues.

The 1995 Marshall Lecture Series will be held Wednesday, March 8, 1995, at 7:30 p.m.

in the Music Theatre of the Music building on ASU's main campus.

The event is free and open to the public. Tickets are required for admission and are available beginning February 22 at: Borders Books and Music, 2402 E. Camelback Rd., Phoenix; Changing Hands Bookstore, 414 S. Mill Avenue, Tempe; Shakespear Beethoven & Company, 7001 N. Scottsdale Rd., Scottsdale; and in the College of Liberal Arts (Social Sciences Building, room 107) on ASU's campus. All unoccupied seats will be released at 7:15 p.m. the evening of the event. For more information, please call 965-1441.

The Marshall Lecture Series is made possible by grants from Jonathan and Maxine Marshall and the Marshall Fund of Arizona to ASU's College of Liberal Arts and Sciences. The series annually brings to ASU nationally known figures and scholars concerned with promoting culture through the humanities and in gaining a better understanding of the problems of democracy. □

CANYON ECHO CLASSIFIED

"TREK! Man Alone in the Arizona Wild." First edition of Geoffrey Platts's desert journals is running out. Order signed TREK!s soon \$11.50 postpaid. Box 5268, Carefree AZ 85377 (488-1462)

WATER PURIFIERS "First Need" Delux. \$37.00, \$4.00 Ship Replacement Cannister \$22.00, \$1.00 ship. Add 5% tax M/Card/Visa with exp. date—Viking, Box 32014, Tucson, AZ 85751. FAX 602-299-6678

Stickers, 4 x 11, white on green. "HIKE 'TIL YOU PEAK" & "NATURE HAPPENS" \$2 each from Georgia, PO Box 2152, Sunnyvale, CA 94087-0152 (SC mbr).

COMMUNITY forming based on cooperative, agricultural and cottage industry priorities. Community-assisted construction on energy efficient housing. 130 acres in the San Pedro Valley/Benson area, SE of Tucson, adjacent to the Coronado National Forest (40 min. from Tucson). Seeking co-creators to establish a holistic ecological environment. Call 894-0225.

TRAVEL

Kayak Bajal Baja Seakayaking from \$125. Baja Whalewatching/sea turtles by kayak, Seafood Survival! Hot Spring by Kayak. San Diego/LA classes. Free Brochure. Aqua Adventures (619)695-1500.

Nepal, Tibet & Pakistan. Treks from \$825 with Peter Owens (former Director of Sierra Club Himalayan trips). Annapurna, Everest, Mustang, Makalu & Pakistan treks Tibet overland. **HIMALAYAN TREASURES & TRAVEL.** Phone: 800-223-1813

ALASKA SEA KAYAKING and rafting. Guided wilderness trips benefit river conservation. **Help protect the Grand Canyon from uranium mining!** Friends of the Colorado River, Box 1115, Flagstaff, AZ 86002

VOLUNTEER OPPORTUNITIES

CANYON ECHO: Labels and mailing. Canyon Echo mailing sessions need label stickers. Good eye-hand coordination and the ability to converse while working. Many hands make light work! Contact Jerry Nelson for meeting dates 279-4668

CANYON ECHO: Assistant Editor, Editorial Assistants needed. Attend the Publications Committee meeting Feb. 2 for a chance to get involved. We'll be planning this year's publication regime. 516 E. Portland St., Phoenix. 7:00 pm. Call Richard Isetts, 945-5586

For just \$5.00 (30 words or less, each additional word is .20 cents) you can reach over 7,000 readers throughout Arizona. To place an ad, mail your copy along with your name, address, phone number and payment to: Canyon Echo, c/o Advertising Mgr., 516 E. Portland, Phoenix AZ 85004. We are not accepting personals and automobile entries. Deadline is the first of the month preceding the month of issue. (Sierra Club entries for volunteer assistance are placed without cost.)

OUTINGS

JAN. 29 (SUN) "B+" Hidden Secrets of the Goldfields Dayhike. Explore two rarely visited canyons in the Goldfield Mountains north of Apache Junction. This 10 mile on- and off-trail route will take us over ridges, across slickrock and through rugged, narrow and spectacular steep-walled canyons. Expect plenty of rock hopping, boulder scrambling, steep slopes and thick and thorny vegetation. Drive 35 miles one way from Tempe. Call Ken McGinty at 265-2854. **Phoenix.**

FEB. 4 (SAT) "B+" White Tank Mountains Dayhike. This hike will take us to the highest point in the White Tanks. Expect scenic views, a variety of vegetation, possible waterfalls and wild life. This will be a rugged, all day hike both on and off trail. Strong hikers only. Approximately 13 miles RT with 3,000' EC. Call Dave Sanders, 955-9781 or Dan Ruppert, 967-1859. **Phoenix.**

FEB. 4 (SAT) "B" Apache Peak Dayhike. We will hike up the Oracle Ridge Trail ascending Apache Peak, the "highest point in Pinal County" and will return via a new portion of the Arizona Trail. Final 1/2 mile ascent involves steep off trail hiking. 10 miles with 2000 ft. EC. Call Mike Breslow at 446-3239. **Tucson.**

FEB. 4 (SAT) "C+" Sedona's Secret Canyon Dayhike. One of Red Rock Country's most varied canyon hikes. After 4 miles and about 300 ft. elevation change, we'll scramble up to a high natural arch formed in a fin of red rock. Here, with interesting views to enhance our lunch, we'll eat and rest, then return the way we came. Call Sandy Unger at 204-1169. **Sedona.**

FEB. 4 (SAT) "B+" Teapot Mountain Dayhike. On this 8 mile offtrail peak bag we will climb a prominent 4,485-foot peak south of Superior near the Ray Mine. Expect 1,800 feet of elevation gain, extremely steep and rocky slopes, thick and thorny vegetation and open-pit panorama. Drive 65 miles one way from Phoenix. Call Ken McGinty at 265-2854. **Phoenix.**

FEB. 4 (SAT) "B" Eastern Superstitions Dayhike. Haunted Canyon dayhike, approximately 11 miles RT. with 250' Elevation gain. This is a scenic eastern Superstitions hike along Pinto Creek to Tony's Place (an abandoned cabin). Bring 2 quarts of water, warm clothing, rain gear, hiking boots and a lunch for mid-hike. Also bring a flashlight to explore a "spooky bat cave". Call Richard Balland, 423-8167 or Patricia Turpin, 841-5243. **Phoenix.**

FEB. 5 (SUN) "A" Dayhike: Hidden Secrets of the Western Superstitions (Exploratory). Rugged mountain scenery and arduous canyon bushwhacking await those who dare undertake this McGinty-esque exploratory trip from Carney Springs to First Water trailheads via West Boulder Canyon. Be prepared for: steep, strenuous slopes; a long, slow stretch of boulder-hopping through a brush-choked canyon; chance of wet feet or wading through pools of cold water. Approximately 12 miles distance, 1,700-ft. elevation change. Bring 3-4 quarts of water, long pants, work gloves. Drive 35 miles one-way from Mesa meeting place. Drivers will be needed to participate in 25-mile car shuttle between First Water and Carney Springs trailheads. Limit of 15. Note: Due to potential conflict (unresolved at press time), this outing may have a date change or be canceled; check with leader as trip date approaches. Call Tom Cadden, 971-1528. **Phoenix.**

FEB. 11 (SAT) "C" Blair Pass Dayhike. Since the Granite Basin Campground expansion has closed access to trailheads, we will hike into the Granite Mountain Wilderness from Iron Springs Road to Blair Pass and then return. Hike 7.2 miles RT. Call Bobbie Root at 776-0827. **Prescott.**

FEB. 11 (SAT) "C" Lower Sycamore Creek Dayhike. We will follow a jeep trail along a creek and up a side canyon into a beautiful riparian area. 4-5 miles, less than 500EC. The trailhead is less than 50 miles from Phoenix. Call Frank Welsh, 277-5080 or Trish Pritchard, 841-5243. **Phoenix.**

FEB. 11 (SAT) "B" Willow Canyon (White Tanks) Dayhike. On this 8 mile, mostly offtrail hike, we'll explore two interesting granite canyons and follow a ridge in the White Tank Mountains west of Phoenix. Expect rock hopping, boulder scrambling and an exciting descent of Willow Canyon. Drive 30 miles one way from Phoenix. Call Ken McGinty at 265-2854. **Phoenix.**

FEB. 11 (SAT) "B" Table Top Wilderness Dayhike. Hike on trail to the summit of Table Top Mountain. Enjoy pristine desert scenery as you ascend to Prickly Pear heaven. This wilderness area was designated in 1990 and receives very little use. Drive about 45 miles south of Phoenix. Call Jim Vaaler at 840-3547. **Phoenix.**

FEB. 11 (SAT) "A" Sabino Canyon to Bear Canyon Dayhike. A challenging dayhike through the central canyons of the Catalina Mountains in the Coronado National Forest near Tucson. From the visitors center, we'll hike to a perennial stream which we'll follow up through Sabino Canyon, one of the premier recreational attractions in this part of Arizona. Upon reaching Sabino Basin, we'll loop up to Thimble Saddle and then descend to Seven Falls, a picturesque array of cataracts recessed in a steep gorge which should provide a spectacular display at this time of year. After cooling our heels suitably in those refreshing

Outings are rated for degree of difficulty and risk by the leader. As a guideline, outings are classified as follows:

"A" More than 16 miles or more than 3,000-foot elevation change.

"B" 8 to 16 miles and between 1,500- to 3,000-foot elevation change.

"C" 3 to 8 miles, 500 to 1500 feet.

"D" Less than 3 miles and 500 feet.

RT means round trip; OW means one way; EC means total elevation change; Name of city after the date means city of origin of the group hiking.

1. Trip leader has absolute authority to question trip participants as to their equipment, conditioning and experience before and during the trip.

2. SIERRA CLUB RESTRICTIONS: NO FIREARMS, RADIOS OR PETS.

3. Sierra Club liability covers leaders only.

4. Each person is responsible for his or her own first aid equipment. If you are injured, notify the leader immediately.

5. If you leave the trip, with or without the leader's permission, you are consid-

ered to be on your own until you rejoin the group.

6. Hikers are encouraged to car pool and share the driver's fuel expense. Suggested compensation is 5 cents per mile.

7. Outings are by reservation; call the leader early. Group limit 20.

8. Donations are accepted from all participants at \$1.00 a day per member, and \$2.00 a day per nonmember. Money is collected by the leader and deposited with the sponsoring group treasurer.

9. For more information, call Jerry Nelson, (602) 279-4668. □

Grand Canyon Chapter Hike of the Month! Goldfield Peaks Dayhike Sunday, February 19



All this
12-mile
mostly off-trail
peakbagging
ridge-trek
extravaganza
steep slopes
thorny vegetation
cholla fields
tribulations
and more!

"A" rated hike
Peaks to bag?
Dome Mt. 3,395 ft.
Mt. Woodruff 3,097 ft.
Vaaler Peak 3,076 ft.

For fast and strong hikers only
Leader: Ken McGinty, 265-2854
drive 35 miles one-way from Scottsdale
see entry on this page for details

waters, we'll return via Bear Canyon trail. 17 miles RT, 2,100' EC, ranging from a low of 2,700' at the visitors center to a high of 4,800' at Thimble Saddle. Strong hikers only, please. Call David Thompson, 585-7714 or Ted Gartner 650-4772. **Phoenix.**

FEB. 11 (SAT) "B-" Pontatoc Ridge Dayhike. This outing is for anyone interested in becoming involved in the Tucson Sierra Club's outreach program, Inner City Outings. ICO provides outdoor experiences for adults and children who otherwise would not have them. ICO volunteers organize, assist on and lead outings. For more information come hike with us. 5.2 miles RT with 1300 ft. EC. Call Laura Kerr at 881-8687. **Tucson.**

FEB. 11-12 (SAT-SUN) Buenos Aires Wildlife Refuge Mountain Bike Ride and Optional Campout. Birds, endangered quail, mule deer and Pronghorn Antelope can all be seen. On Saturday we'll ride our mountain bikes approx. 25 miles with minimal E.C. on dirt roads in this fantastic refuge followed by an optional campout Saturday night. Call Donna Eels at 881-0474. **Tucson.**

FEB. 12 (SUN) "C+" Cienega Creek Nature Preserve Dayhike. Join us for a scenic hike in a beautiful Pima County riparian area with lots of vegetation, birds and interesting geology. There should even be some water to splash in. 8 miles RT with less than 500 ft. E.C. Call Paul Pierce at 749-4454. **Tucson.**

FEB. 12 (SUN) "A" Gems of the Western Superstitions Dayhike. The ol' Dutchman himself would envy the scenic treasures we'll see on this long, tough all-day hike. Starting from Peralta Trailhead, we'll soon leave the crowds behind as we make our way around the "back" side of Weaver's Needle, through LaBarge Canyon and the lower box (depending on water level), and coming out near First Water Trailhead via the highly scenic Hackberry Spring route. The rewards are sweeping mountain vistas, spectacular steep-walled canyons and a sampling of almost every type of scenery the western Supes have to offer. Mostly trail hiking, with some off-trail for variety. Approximately 16 miles distance, 2,000-ft. elevation change. Bring 3-4 quarts of water, long pants, flashlight. Drive 35 miles one-way from Mesa meeting place. Drivers will be needed to participate in 25-mile car shuttle between First Water and Peralta trailheads. Limit of 15. Call Tom Cadden, 971-1528. **Phoenix.**

FEB. 18-20 (SAT-MON) Cross Country Ski Trip: Forest Lakes. Come to Forest Lakes on the Mogollon Rim for cross-country skiing. Come for just one day or stay overnight in a cabin and share our hot, mulled wine. There is room for 12 people in the three cabins and the cost is \$20 per person per night. Ski rental and trail passes are extra. Bring wine for mulling. A non-refundable deposit is required for the cabins. Call Martin Barker, 788-9214 or Don Hoglund, 968-8910. **Phoenix.**

FEB. 18 (SAT) "D" Family Outing. We will visit the Hassayampa River Preserve located about 3 miles southeast of Wickenburg. Activities include two miles of gentle trails with great views of a large number of birds. A great opportunity for anyone interested in learning about bird identification. Will have a picnic lunch at the preserve. Call Jim Morgan at 778-1041. **Prescott.**

FEB. 18 (SAT) "B+" Ballantine Trail Dayhike. This hike is on a moderately sloped trail that leads into the Four Peaks Wilderness area. The trail is exposed most of the way, which is good for the warm sun on a cold morning. The latter position of the trail leads into some pines, which will be cool when we stop for lunch. The portion of the trail we will hike is 10-12 miles RT with 2,300' EC (the total distance depends on the group). The trail is rocky and steep with significant amounts of cactus in some areas. Bring lunch, water, jacket/poncho and sturdy hiking boots. Please, only moderately strong hikers. Call Chuck Wood, 946-9687 or 809-2408 or Marge Blum, 948-1831. **Phoenix.**

FEB. 19 (SUN) Outings Meeting at Saguaro National Park East, Pot Luck and Hike. Are you interested in leading a hike, outing or just curious about what hikes will be coming up? Then bring a dish to share and join us for this meeting around noon followed by a hike at Saguaro National Park. Call Donna at 881-0474 or Jo Anne at 770-1252. **Tucson.**

FEB. 19 (SUN) "C+" Fremont Saddle Dayhike. Hike along the Peralta Trail to Fremont Saddle for one of the best views of Weaver's Needle. 4.6 miles RT. Bring plenty of water, lunch will be at Fremont Saddle. Call Jim Moir, 274-2662. **Phoenix.**

FEB. 19 (SUN) "A" Goldfield Peaks Dayhike. On this 12 mile mostly offtrail peakbagging ridgetrek extravaganza in the Goldfield Mountains north of Mesa (for fast and strong hikers only) we'll climb not only Dome Mountain, the Goldfield's highest point (3,395 feet) the hard way, but we'll also bag other summits: Mt. Woodruff (3,097), Vaaler Peak (3,076) and Bob Moore Mountain. Expect extensive up- and downhill hiking, steep and rocky slopes, thick and thorny vegetation, cholla fields and resulting tribulations. Views should be fine. Drive 35 miles one way from Scottsdale. Call Ken McGinty at 265-2854. **Phoenix.**

FEB. 25 (SAT) "A" Black Mountains Dayhike. This 10 mile mostly off trail exploratory hike will ascend 1,900 feet along ridges to the 4,091-foot-high unnamed summit of one of the highest peaks in the Black Mountains northwest of Wickenburg. Steep and rocky slopes, thick and thorny vegetation and other adversities will be more than compensated for by the experience of this rugged, beautiful country and its everchanging spectacular views. Drive 95 miles one way from Phoenix. Call Ken McGinty at 265-2854. **Phoenix.**

FEB. 26 (SUN) "D" Family/Childrens Hike. Kids and adults of all ages are welcome as we hike about 2 miles in the Prescott area. We'll talk about what we see along the way and have a picnic lunch. Fun and learning included. Call Barbara Jacobsen at 717-0647. **Prescott.**

FEB. 26 (SUN) "C" Tucson Mountains/Starr Pass Dayhike. We'll hike from the end of 36th St. up the large desert basin to Starr Pass and check out the old dam on our way up. This hike is in conjunction with the Rincon Group hosting the Southwest Regional Conservation Council that weekend. We'll probably get some of those folks

out in the desert. 6-8 miles R.T. with less than 500 ft. E.C. Call Paul Pierce at 749-4454.

FEB. 26 (SUN) "A" Taylor Cabin Dayhike. Hike along impressive sandstone cliffs in a riparian environment along Sycamore Creek. The trail leads to Taylor Cabin which has been declared a National Historic Site. Approximately 17 miles RT. Call Judy Williams, 873-4845 or Kathy Tottis, 482-9579. **Phoenix.**

MAR. 4-5 (SAT-SUN) "B" Four Peaks Wilderness Backpack. We will start from Lone Pine Saddle and follow the Four Peaks Trail to the summit of Buckhorn Mountain. We will then descend to the "Big Tree" near Upper Chillicut Spring and complete the trip by walking the Chillicut trail through the scenic riparian corridor in Baldy canyon and ending at Rock Creek. Call Jim Vaaler at 840-3547. **Phoenix.**

MAR. 5 (SUN) "B-" Bridalwreath Falls, Saguaro National Park East Dayhike. We will hike on the Douglas Springs Trail from the end of Speedway to Bridalwreath Falls through a gorgeous stand of Saguaros. 6 miles R.T. with 1000 Ft. E.C. Call Tom Vincent at 743-7887. **Tucson.**

MAR. 11 (SAT) "B" Pina Blanca Dayhike. Join us to hike at Pina Blanca which follows a creek and is located 15 miles west of Nogales. 12 miles R.T. with 500 Ft. E.C. Call David Martin at 795-9159. **Tucson.**

MAR. 12 (SUN) "A+" Window Rock Ridge in Santa Catalinas Dayhike. I have planned a lot of dumb hikes in my days but this one may top them all. After taking the trail to Window Rock only a fool would try to come back to the ridge so let's do it. For experienced bushwhackers only. 16 miles R.T. with 5000 ft. E.C. Call Sid Hirsh at 326-0583(hm) or 325-3110(wk). **Tucson.**

MAR. 18 (SAT) "B-" Tucson Mountains Dayhike. Join us for a hike in the Tucson Mountains. Bring a lunch and come check out this desert canyon. 6-8 miles R.T. Call Jo Ann La Croix at 770-1252. **Tucson.**

MAR. 19 (SUN) "B-" Singles Douglas Springs Dayhike. Time for another of our most popular hikes in the Rincon Mountains of Saguaro National park. 6-8 miles. Call Bobbie Zimmerman at 886-0052. **Tucson.**

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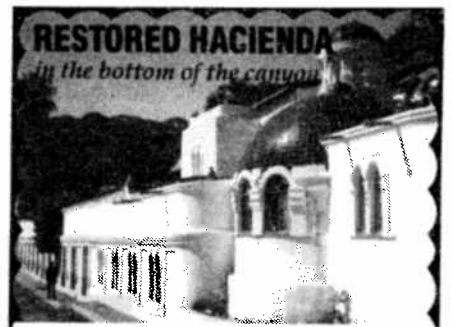
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