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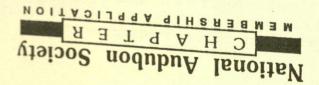
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# THE STIL

AUDUBON SOCIETY BRIDGERLAND

Vol. 17, No. 3

November 1988

### Ataisog undir ETING CALENDAR

rsday, November 10: Regular BAS monthly meeting, p.m. in the Logan City meeting room, 255 North Street. Featured speaker will be Mark Stackhouse of H∃dVd Q∃TOAO∃HNO Tracy Aviary. See the related article in this issue of Stilt for details.

invites submissions of any kind, due on 'euizeвеш uoqnpny eqt se ||eм se ||eм se ||em se ||e B sepnjoui Ajejoos uoqnpny publishin he Logan Library conference room, 255 North Main

LD TRIP CALENDAR

urday, November 5: Attracting Birds To Your Home. et at 9:00 a.m. at the home of Allen Stokes, 1722 Idle Hill Drive (Saddle Hill Drive is about 950 North, theast of the golf course, and is only two blocks long). s will be a visit to three homes to see various types of leeders, their locations and the types of foods to act a variety of winter birds. Bring binoculars to identify Is using the feeders.

urday, November 12: Fall Migrants and Gulls of Cache ley. Leave at 8:00 a.m. from the southwest corner of Fred Meyer parking lot and return around noon. The will go to the sanitary landfill and the sewage lagoons observe gulls at a time in the year when unusual gulls in appear. Afterwards we will go to the Benson area to k for hawks, owls and other birds. .bnatte of amole

Prints Views steem estimon brings miday. November 19: Geology of Cache Valley. May, in the Council Room of the Council Room of the Program of the this trip and make you feel as if you are walking through the distant past, searching for fossils along the shores of ancient seas. Meet at 8:00 a.m. in room 202 of the Nutrition and Food Science Building on the USU campus (12th East).

### HERE COME THE POLYBAGS!

A small number of the November issue of Audubon magazine will, as an experiment, be wrapped in a new polybag containing some form of cornstarch to make it more readily biodegradable. NAS will be testing it to see whether it works and if it is economically feasible. You can recognize the different wrapper by its diminished transparency and slightly rougher texture than the polywrap NAS has been using. NAS promises to keep us posted on further developments.

### BAS MEETING: FOR THE BIRDS

The November 10 BAS monthly meeting will be for-and with-the birds. Featured speaker for the evening will be Mark Stackhouse of the Tracy Aviary in Salt Lake City. Mark will have several live birds with him for the meeting, and will present a slide show on the role of the aviary in conservation and education, explaining both the aviary's current programs and plans for future programs.

Occupying 12 acres in the southwest corner of Salt Lake City's Liberty Park, Tracy Aviary was established in 1938 with the private donation of 200 birds and animals from Russell Tracy. The oldest public aviary in the country,

Tracy Aviary includes more than 900 birds from 240 species-the fifth largest collection of birds in North America.

Mark Stackhouse received his B.S. in range science and biology from USU. He has had a lifelong interest in birds and has worked as Tracy Aviary's community educator for three years. In keeping with that role, Mark will spend the day, before the meeting, presenting BAS-sponsored programs at local area grade schools. This will be Tracy Aviary's first visit to Logan, and we extend hearty thanks to Mark Stackhouse for his time and his birds.

The meeting starts at 7:30—don't forget to bring the kids to this one.

- Diane Browning

### TETON AUDUBON TRIP

[Ed. note: Shelly Ferlin and her family went with BAS on the September 30 - October 2 Audubon trip to the Tetons. Al Stokes asked her to write about what she enjoyed most on the trip.]

We left camp early in the morning on Saturday. On our way to the Science Lab [the Teton Science School museum], we stopped to watch a herd of antelope. One buck was trying to get into the herd until the leader, on the other side of the field, saw him coming and chased him away. The group we were in stopped to look at them just being there in their natural habitat and being free. My Mom took a picture of them.

After we left the Science Lab, we passed a buffalo grazing along the side of the road. We walked around where the Teton forest fire had burned in August.

We also went to see a beaver dam, but we couldn't see any beaver. We did see where the beaver had chewed down trees, and some were really good-sized. The larger trees were left, but all the branches were chewed off. We saw the trail where the beavers slide their logs down to the river. I had never seen a beaver dam. It was exciting for everyone, and the little kids were really enjoying the dam.

Saturday evening we went to see the elk and listen to them bugle. On our way to where we were to watch for the elk, we saw a bull moose beside the road. We stopped and watched him for a few minutes. When we got to the field where we were going, we saw a bunch of mule deer. Then we walked up the road and stopped to see a large bull moose that was walking down the hillside. We saw a large elk across the fields and heard him bugle. As it got darker we could only see big black blobs moving toward us. Terry, one of the leaders, told me that the elk don't like human scent.

Even though it was cold in the mornings, we all to make it through two nights there. We saw perle has announced that the Tucson Audubon different kinds of wildlife in the Teton Mountain be the official host for the 1989 National really exciting for my Market and Mountain the Teton Mountain the Tet any elk or buffalo in the wild. I hope that next year able to go to the Tetons and see the elk and the assembled an outstanding committee of great wild animals.

### SUNFLOWER SEED IS . . . GONE

that more will probably be available come January to be featured. you want to reserve a bag or two or three, contain

### LOGAN CANYON UPDATE

The Logan Canyon Highway has been designated "National Scenic Byway" by the U.S. Forest Service a few roads throughout the country have received designation. While the designation does not on seedal workshops, provocative speakers, member a special place.

advocated for several years.

### SHARKS IN CACHE VALLEY!

That's right: Cache Valley will have sharks in December Not the kind frequently seen around Hyrum Resent however. Peter Benchley, author of Jaws, will name! next Audubon Special, featuring (you guessed it) shall

Although many people behave somewhat irralion toward sharks, this Audubon Special shows that state are in fact a valuable resource and are no less desent our concern than are whales, dolphins, big cats and wildlife. The program's theme is that we don't will continue doing to sharks what we have done to what other endangered species. The gentle basking state severely threatened, and the great white shark-sup marine predator and antagonist in Jaws-is remored hunted by souvenir collectors.

Please tune in. The dates for this Audubon Spin which will air on SuperStation TBS, are:

Friday, December 16, 10:50 p.m. Eastern im Tuesday, December 27, 9:20 p.m. Pacific time Friday, December 30, 10:05 p.m. Eastern time

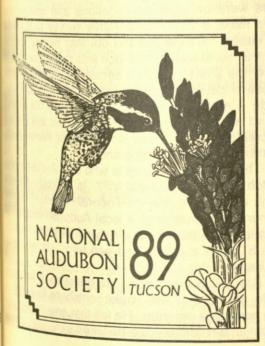
different kinds of wildlife in the Teton Mountains will be the official host for the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has announced that the 1989 National really exciting for my Mom because she has a nounced that the 1989 National really exciting for my Mom because she has a nounced that the 1989 National really exciting for my Mom because she has a nounced that the 1989 National really exciting for my Mom because she has a nounced that the 1989 National really excited that the 1989 National really excited the 1989 National really really exciting for my Mom because she had never that the Hotel at Randolph Park in Tucson. The any elk or buffalo in the wild. I hope that never that had an outstanding committee of

nonvention's theme is "Our Southwest: Challenged Shelly Growth. The program will focus on the complex issue uplosive growth locally, nationally and internationally, at the impact of this growth on energy consumption, source use and our environmental future. It will The year's first shipment of sunflower seed is some windless and soon to be distributed. At the same wildlife management, loss of critical wetlands and wildlife delivered, and soon to be distributed. Al Stokes management, loss of critical wetlands and wildlife that more will probably be available companies. Audubon's High Priority Campaigns will

752-2702. The cost will be close to what it was last in the development problems we're facing in ham Utah's canyon country, many of these issues are or made for our participation. How is the southern signia demand for power going to affect the air quality 18908 Canyon? Is drilling for carbon dioxide really the and management strategy for our wilderness study

specific guidelines limiting highway modification and member panel discussions, board member certainly supports the BAS position that Logan Cann peraction outstanding field trips, a theme art show, abbits and just plain camaraderie will be the ingredients amake this convention one of the best ever. National is The National Scenic Byway designation is not the same pring members from every chapter to attend . . . so mark the National Scenic Highway designation, which we are calendar for September 11-16, 1989, and be a paticipant in this important (and fun!) event. For more formation, contact any BAS officer or Gail Turner, Invention Coordinator, 4150 Darley, Suite 5A, Boulder,

-TJG



### A TEMPORARY VICTORY . . . AND A POSSIBLY PERMANENT DEFEAT

The good news comes from Washington, D.C. where conservationists have won a quiet victory. After months of wrangling over proposed oil exploration in the fragile Arctic National Wildlife Refuge (ANWR), House Speaker Jim Wright, an oil industry ally, conceded in a meeting with wilderness champion Morris Udall to no floor action on the Arctic development legislation for the rest of this year. Wright had learned earlier that no Senate votes were planned for the rest of the year because of the likelihood of a filibuster by those who support wilderness for ANWR.

Although the victory is not final-Wright vowed that he would be back next year, pressing for development legislation early in 1989-conservationists can enjoy the knowledge that they have successfully stood up against Interior Secretary Donald Hodel, the oil industry and some of the most powerful members of Congress.

On another front, closer to home, the Bureau of Land Management has released a proposed resource management plan for the San Rafael Swell south of Price. Not surprisingly, the plan promotes using off-road vehicles throughout the swell. Oh, well . . . it's only a desert. What's another desert? Seen one, seen 'em all, right? Besides, if the BLM's plan gets approved, we can all truck on out there with our ORVs and run us down some jackrabbits!

- Utah Sierran/TJG

#### HOTLINE NOTES

This summer turned out to be the season of the cattle egret. More of these elegant waders were seen this summer than in several previous summers combined. Otherwise, the hot season turned up few rarities. This fall, however, has seen some rare birds in the county. Kit Flannery reported seven species of warblers in her yard during September, including Nashville and Townsend's. An ovenbird, an eastern warbler who very rarely comes to Cache Valley, appeared at Tom Lyon's house and stayed a few days in September.

With the fall migration upon us, keep your binoculars out and the HOTLINE number in hand. If you have a bird to report or would like a call when a rare bird is reported, let me know at 753-1893.

- Scott Cheney

### UTAH AUDUBON COUNCIL MEETING

September 24-25, 1988

The Council was held at Kelly Grove, a mile east of Springville in Hobble Creek Canyon. The Timpanogos Chapter had reserved and paid for the use of a large covered pavilion with lights, running water, and spacious lawn on which to pitch tents. This made a quiet, pleasant location with Hobble Creek running alongside our meeting place.

The gathering started at noon Saturday for lunch, followed by an all-afternoon trip to see the areas proposed for the Utah Lake National Wildlife Refuge. Two years previously Jim Coyner had conducted a similar trip when the lake was at flood level. This time the lake was at an extreme low level. The contrast was striking, with 200 yards of sandy exposed shoreline and virtually no emergent marsh vegetation left. In the absence of Jim Coyner, Knute Rife did a good job of leading the trip.

We returned to Kelly Grove for a potluck supper followed by a session around a warm campfire. Discussion continued after breakfast on Sunday, winding up by noon. The following persons attended:

Lois Clark, Lillian Hayes, Donna Peterson from Timpanogos A.S.; Cindy Cromor, Margie Halpin, Jeanne LeBer, June Rayburn, Knute Rife, Lester Short, Ray Smith, Doug Stark and Andy White-Utah A.S.; Mike Elzey-Wasatch A.S.; Bruce Pendery and Al Stokes, Bridgerland A.S.

The Timpanogos chapter felt it could not host the actual meeting other than making campground arrangements, so the Utah A.S. served in this capacity. Andy White, President of U.A.S. presided over the discussion sessions. Al Stokes offered to prepare minutes for distribution to each chapter for inclusion in their respective newsletters.

Saturday Evening Discussion Session

The first item for discussion was the setting of time, place, and topic for the 1989 Council Meeting. Al Stokes suggested that a field trip to the wetlands at the north end of Salt Lake County east of the airport and adjacent to the Jordan River with a program on the potential for developing this area for wildlife as well as recreation might be interesting. Margie Halpin briefed us on the area and its potential for wildlife. It was agreed to hold the 1989 Council Meeting there in late February or the first week of March, a time when bald eagles should be roosting in the large cottonwoods, making for an interesting field trip. The Division of Parks and Recreation has a small information center there that we could presumably use for our meetings and possibly even spend the night. Margie agreed to check into this as well as head up arranging the program. The Utah A.S. would act as host for physical arrangements but the Coordinating Committee, made up of a representative from each Audubon chapter, would meet with Margie to arrange the program. Robert Turner will be asked to attend.

Margie then told us about the possibility ays of raising money were presented with no Great Salt Lake designated as a Western Honoclusion. Ray agreed to delve into what suggestions Shorebird Reserve by the Western Honoclusion. Ray agreed to delve into what suggestions Shorebird Reserve Network hose. Shorebird Reserve Network because of s numbers of migrating phalaropes and other hunday Morning Discussion using the lake. If Salt Lake were so designated the signated decision should be made within a few month provide names and addresses of key personnel in shorebird migration. Audubon chapters would formation and consultation. It was agreed that this consultation to become involved in a state of the party of the provide state of the party of th opportunity to become involved in annual should be handled by each chapter. census which would make a fine project for Andy spoke of the possible outbreak of gypsy

Audubon might play concerning future decerning information about gypsy moths. by the U.S. Fish and Wildlife Services. Andy Will responsible for doing this.

There was discussion as to how reliable figures were on crop depredations and wheth should make a more quantitative survey to the such losses. Margie pointed out that moneys doing this would mean that much less money and because of declining license sales. A crane hourpose. provide a modest enticement to replace the reduced hunting of waterfowl. Andy will ask Vice-president Bob Turner for whatever information has on crop depredation by cranes.

The question arose as to who sets Auduli Is it Bob Turner as regional VP? Is it Frosty FTERMATH OF THE KOKANEE through his statement in the Federal Register PAWNING statement by an officer of a local Audubon of Stokes told how this needs clarifying for there of N.A.S. policy to which one can turn. He will Peter Berle on this.

Audubon Council to cordinate. We received the joths in Utah and that APHIS is rumored to wish to begin with enthusiasm and agreed that each chap pray action. We were concerned about effects on other name one or two members to work with Margle is ects and wildlife depending on these. Al agreed to a plan of action for the U.A.C. Margie thoughtaon tact his brother in Massachusetts as to the could come in late summer during the fectiveness of spraying, as well as a friend in Colorado migration. This would not be a U.A.C. meeting here gypsy moths have only recently arrived. He will Andy White then raised the matter of port to Jeanne LeBer who will be responsible for

sandhill crane hunt. There are three issues. The final matter discussed was the organization of be the impact of a limited hunting season on or ie U.A.C. itself. It was agreed after lively discussion that: crane population in terms of its numbers? Is A.C. should have a coordinating committee made up of season necessary as a means of reducing con representative from each chapter and a chairman Third, is there a strong enough group that sponsible for getting this committee together. A hunting cranes for philosophical reasons uggestion for a secretary was tabled but Al Stokes keeping sandhill cranes a non-game bird in Uz greed to prepare a report on this meeting. There should Aldrich, of the Utah Division of Wildlife Resone a notebook where records of U.A.C. meetings and charge of the education of the public on the ctions can be kept. Specific issues should be assigned issues. He will be available to speak to our lan individual. This person will act as a chapter member chapters upon request. We agreed that pin nd report to his/her chapter rather than to the U.A.C. speaking engagements we should secure committee. The practice of having a North American Sandhill Crane Management Preserved meeting was endorsed. There will be a host pter responsible for the physical facilities. The ordinating Committee, or some person(s) designated it, will arrange the field trip and program. Current ordinating Committee members are John Bellmon, airman, Bruce Pendery, and Knute Rife. The panogos chapter should designate a member. Knute Bruce agreed to continue to serve.

The meeting adjourned with a strong feeling that work of the DWR. DWR is already financially the U.A.C. has made steady progress toward stability and

> Prepared by Al Stokes, Bridgerland A.S. September 28. 1988

Many of you have gone on the Audubon field trips observe the spawning of kokanee salmon above cupine Reservoir in early September. These brilliant Ray Smith then posed the question of head fish are a remarkable sight as they splash about in the who do not hunt or fish could contribute fine hallow waters of the Little Bear, trying to establish a Utah's non-game program. He felt that only the stritory in which to spawn. I knew that the salmon all die contribution would our voice be taken serious. hortly after spawning, but I had not witnessed this stage.

So September 18 I went back to see what was happening at the picnic site where we usually watch the spawning kokanee. Some of the fish I saw had white fins and tails as though they were on the verge of dying. I walked on upstream another mile, but saw few actively spawning fish. Others were just resting below small falls, perhaps not strong enough to make the effort to pass up above. So the peak of spawning had passed. I then walked downstream from the picnic area and almost at once saw hundreds of kokanee. Some looked spent but most were in fine color and condition.

When within a half mile of the reservoir I came upon about 40 gulls, mostly California and a few ring-billed gulls. Some were wading in the shallow water. I saw two gulls lunge at fish and actually lift them out of the water. But the violently shaking fish were able to break loose and return to the stream. One gull was working on a dead fish. Down at the head of the reservoir gulls were wading in the shallow water looking for dead and dying kokanee. There were two dead but still red kokanee washed up on the

I had anticipated seeing far more dead and dying kokanee in the higher stretches of the stream, close to where they had spawned. Several white-finned fish gave me a clue as to what was happening. These fish had been holding their position in the fast water, but suddenly as they made a slight turn sideway the current swept them downstream 50 or more feet before they once again stopped. In talking later to a veteran fisherman there I learned that this is typically what happens to these weakened fish. They get swept in stages right down into the reservoir. The sandy banks of the bottom end of the stream were filled with the tracks of gulls suggesting this is where the birds were most successful in catching these

Porcupine Reservoir this year is at record low levels, almost 50 feet below the high-water line. To my amazement the stream had cleaned itself of silt, leaving clean gravel in which the kokanee could spawn at this very low level. To be sure, should the water in the reservoir rise much, it would flood out the spawning sites with

complete loss of the eggs in the redds. I returned again on October 8, with Reinhard Jockel, three weeks after my previous visit. By then the spawning was completely over, and we did not see a single live, even weakened, fish in the stream. There were about ten dead and dried fish on the sandy banks 100 yards or less from the reservoir. Along the reservoir shore itself I saw another half dozen dead fish. Most of the gulls had left this site; of those that remained none were finding dead fish to scavenge. I wondered if kokanee decompose rapidly and sink below the surface.

We walked along the hard-baked mud shoreline and spotted a few raccoon tracks. Then we stopped at tracks with sharp claw marks and pads showing. We believe they were from mink, for the tracks went back and forth along the shore's edge as a mink might do in search of fish. We left, amazed that so many thousand fish could vanish and leave so few traces.

- Al Stokes



### FOOD:THE MOST IMPORTANT ACITVITY IN THE LIVES OF 'PUNK' JUNCOS

The hungry human teenager has his counterpart in the world of yellow-eyed juncos, but the juncos have to

feed themselves.

"The junco parents kick the juveniles out when they learn to forage," says bird biologist Kim Sullivan. "The juveniles form 'punk' junco flocks, and the parents

Sullivan, who recently took a position in the biology department at Utah State University, has studied the behavior of yellow-eyed juncos for the past five breeding seasons in the Chiricahua Mountains of southeastern Arizona. She found that the juvenile ground feeding juncos work hard and live on the edge, energetically.

Juncos nest on the ground in late April, and each nest contains three or four eggs. A pair may raise three broods in a season. Between hatching and learning to fly, 10 percent of the young juncos are lost to predators such as jays, hawks, skunks and rattlesnakes. After 3-4 weeks, they learn to forage on their own, and the parents throw them out.

"The juveniles lose weight when the parents kick them out," says Sullivan. "Forty-two percent of them die. but the ones that make it through survive as well as adults."

The juvenile 'punk' juncos, Sullivan found, feed on insects smaller than those eaten by their parents. They are less skilled than their parents in handling insects, and therefore spend much more time foraging and feeding.

"Juveniles forage more than 90 percent of the daylight hours and still lose weight," Sullivan notes. "In contrast, an adult can feed itself by foraging less than 30 percent of daylight hours. Adults who are feeding themselves and four offspring will forage 70 percent of the time."

As the juvenile birds become better bug-handlers, they choose larger insects, and begin to gain weight. Then they can think of something other than food.

"They can't begin molting until they're good at foraging," says Sullivan. "Then they start fighting among

themselves to establish territories."

Sullivan received her PhD degree from Rutgers University, and has done postdoctoral work at the University of Rochester and the State University of New York at Albany. She presented the results of her studies with yellow-eyed juncos last week at the Behavioral Ecology meetings in Vancouver, Canada. Her research is funded by the National Science Foundation, and she plans to expand her studies to the dark-eyed junco in Utah and the volcano junco in Costa Rica.

- Jillyn Smith

## PRETTY BALLOONS, PRETTY DEADLY

To celebrate the bicentennial of the U.S. Constitution, 230,000 red, white, and blue balloons were released in Philadelphia and thousands more were

launched from the Capitol in Washing few days, many of these balloons washe from New Jersey through Virginia. Even latex balloons are released to promi celebratae events. But these colonia innocent spectacles can have deadly on some marine animals.

In the ocean, balloons-like plasing floating plastic garbage-look like in creatures. Although latex is less durable has a tendency to break down slowly ultraviolet light, it does not degrade in the of animals.

In September 1987, the Marine Marine Marine Center in Brigantine, New Jersey, founds ingested latex balloon contributed to the pound leatherback turtle—an endanger immediate cause of death was probably on the turtle's carapace, but a necrossy of a balloon blocking the pyloric valve an blue nylon ribbon extending into the turtle was severely emaciated; its stomatic were empty. It is likely that the animal was n starvation that it was unable to dive and m from an approaching boat.

Inquiries around the country for findings. U.S. Fish and Wildlife Senior studying the effects of ingested plastic on a small percentage of balloons among then the stomachs of Laysan albatross chicks (The researchers noted that balloons turns bubblegum-like mess in the albatrosse Reports of balloon ingestion by sea creature from stranding centers in Texas and Florida

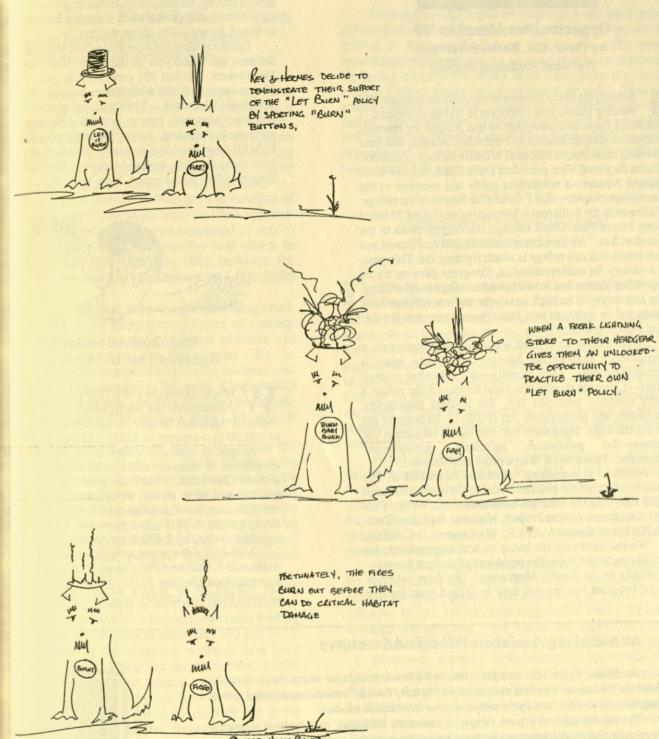
In response to these reports. Assemblywoman Dolores Cooper and Assemblywoman Dolores Cooper and Assembly Moran have introduced legislation that work ban mass releases of mylar, latex, degradable balloons for any promotional pri state.

According to Bob Schoelkopf, of Marine Mammal Stranding Center, the pro one of education. Most groups will hall when told of the dangers. As an aller organizations have been handing out balon to an event. Others have substituted balloons or tethered clusters of balloons pulled down again. Or flocks of tame released, recovered, and used again.

Many planned releases have been s polite phone call. When you learn that ago a balloon release, let them know, "What's goes up is pretty deadly when it comes to

May/June Audubon

Peter C. and Susan Hibbard are high teachers in Jackson Township and lo Jersey, respectively, and work as vol Marine Mammal Stranding Center in Jersey.



Nancy Banks must have done something really rotten in her childhood to become the tired owner of two relentlessly peripatetic Standard Schnauzers, upon whom Rex and Hermes are modeled. She squeezes in a job as the Fisheries and Wildlife Department Librarian at USU between chasing escaping dogs and filling the holes they dig under the fence.

### News from NAS

### Opportunities Ahead in '89 by Peter A.A. Berle, President National Audubon Society

he best part of my job is meeting Audubon people and visiting places that Audubon is trying to protect. I combined these two pleasures in late August by meeting with some chapter leaders in Fairbanks, Alaska, and then traveling to the Arctic National Wildlife Refuge. Audubon Alaska Regional Vice-president Dave Cline, my two sons, Macgill Adams-a wilderness guide and member of the Anchorage chapter—and I walked the length of the refuge. We began in the Sadlerochit Mountains and hiked 75 miles along Marsh Fork Creek through the coastal plain to the Beaufort Sea. We saw lots of wildlife and reaffirmed our conviction that this refuge is worth fighting for. This year, in a victory for conservationists, Congress gave up trying to pass legislation that would open the refuge to oil drilling. The industry will be back next year and we will have our hands full in trying to win permanent protection for this world-class resource.

After four years of hard work by conservationists, a strengthened Endangered Species Act finally made it through Congress. Most recently-and also after years of effort-Congress reauthorized and improved the nation's badly outdated pesticide law, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). In order to get the act through, legislators left out some important but controversial provisions, including groundwater protection. However, it is a positive step forward.

Audubon is recruiting volunteers interested in this country's foreign aid policies because Congress will soon begin rewriting the Foreign Assistance Act. Write: Foreign Assistance Action Project, National Audubon Society, 801 Pennsylvania Ave., S.E., Washington, D.C. 20003.

We also have a terrific hands-on action opportunity for people concerned about the rapid loss of ancient forestsespecially in the Pacific Northwest. Our new Adopt-a-Forest program teaches you how to defend your favorite places in national forests. Volunteen now mapping, investigating, consuling ice officials, and saving trees. Formon to Brock Evans at the above address

Thanks to chapters, board members finished the fiscal year in the black Department reached 101 percent of in 31st, more than 9,000 Auduboners were



of 250,000 youngsters in 8,000 classron

ronmental education efforts were recent in ies in some or most years.

### dangered Storks Make Tentative Gains By Tom Bancroft, Research Biologist **National Audubon Society**

Audubon Visa card. This piece of your ood storks were listed by the federal government excellent rates and returns a small government as endangered in 1984, and their current status is purchase to Audubon. So far, the Society concern to many biologists and conservationists. Re-\$30,000 from the Visa program. If you are a seam of Audubon biologists analyzed the data on your Audubon Visa, write to Marketing North adding populations of the wood stork in the southeastern Society, 950 Third Avenue, New York and States for the period 1959 through 1985. Their vsis provides some interesting new information.

The best news is that the southeastern population of d storks appears to have stabilized. In 1960, approxiely 10,000 pairs of wood storks attempted to nest in ida. In the late 1970s, that number was down to ween 2,500 and 5,000 pairs. By 1985, however, the plation had increased and stabilized at 5,000-6,000 fing pairs.

The analyses have also uncovered a disturbing trend: orthward shift in the geographical center of nesting. Audubon Adventureing 1958-1960, the breeding population of storks was Reaches Out to Minimered south of Florida's Lake Okeechobee. By the 0s, the center of nesting had shifted to the southern part ith the start of the 1988/1989 school k County, 130 kilometers to the north. Concurrently Adventures, the youth education this shift, the southern colonies declined by 84 per-National Audubon Society, is anticipant, from 8,800 pairs in 1960 to fewer than 1,500 pairs in

A special outreach effort is exper Two factors seem important in explaining the obenrollment of minority students to 3000 ed shift in the center of breeding. Storks nesting in the include Cleveland, Ohio; New York Or them part of the range appear to have been much more gia; Newark, New Jersey; Bridgeport in cessful than those in the south, with the result that necticut; and San Francisco, California unal production has exceeded annual mortality in the nority groups, 4,000 Native Americandish, while the reverse has been true in the south. The enrolled, including 2,400 from Alaska and factor is that adult storks and/or their offspring that Audubon Adventures and National e nested in the south are now nesting in northern

a prestigious Golden Eagle Award of these factors appear to be related to the Council of State Garden Clubs, Inc. | Ilability of adequate feeding habitat in the two regions. e south, the acreage of five important wetland feeding tats decreased by 35 percent between 1900 and 1973. thermore, many of the remaining wetlands have been lified dramatically, either by impoundment, partial hage, or manipulation of normal hydrologic cycles. se managed wetlands may not provide an adequate base for storks if they fail to concentrate fish at the per water depths and in the proper seasons. The them region, on the other hand, contains many indedently functioning small stream systems, lakes, marshes, farm ponds that provide many feeding options for the concerns. The availability of favorable feeding habitat may explain the greater success of the northern population.

Although south Florida no longer supports the number of breeding wood storks it once did, this region may still be critical to the preservation of the species. The south remains an important nesting area and may be an important wintering location for storks from throughout the southeastern United States breeding range as well. That the southeastern wood stork population has stabilized is reassuring. The northward shift of nesting sends us a message that the environments of south Florida on which the stork depends are in trouble, something we have heard from other species as well.

### Scientists Explore Risks of Superconductivity

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r. Jan Beyea from Audubon's Environmental Policy Department recently joined a host of physicists and industry leaders at Robert Redford's Institute for Resource Management to ponder the implications of superconductivity. The last few years have seen enormous advances in superconductors-specialized materials that, when cooled to abnormally low temperatures, conduct electricity with little or no resistance. The current frenzy of research is expected to lead to the eventual development of roomtemperature superconductors, making the technology more economical.

While scientists predict superconductivity will one day have a major impact in many areas of modern society, it will be some time before its applications reach a scale where they might be environmentally disruptive. Thus, Beyea feels that we still have an opportunity and an obligation to channel its growth into environmentally benign directions.

Despite the promise of enhanced electrical conductivity, the scientists concluded that the new technology will not significantly improve the efficiency of power transmission. In fact, calculations suggest that even if all longdistance transmission were based on superconductors, power losses would be decreased by only three percent.

Moreover, massive deployment of superconducting devices would greatly increase the intensity of magnetic fields in the environment. This poses potential human health threats, and could interfere with magnetic-based animal orientation, such as bird migrations. Clearly, Beyea asserts, further environmental research will need to proceed as the new technology evolves.

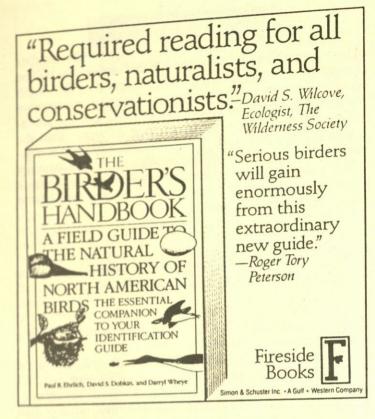
### Announcing Audubon Wildlife Adventures

Audubon Television has just released all-new computer software to complement the TV series. The first disk, entitled "Grizzly Bears," introduces players to that magnificent animal through a series of four interactive stories.

Taking the part of a park ranger, a research biologist, or a natural resource developer, the player searches for creative solutions to the conflicts between people and the bear. Additional software in the Audubon Wildlife Adventures series includes "Whales," "Sharks," and "Poacher Patrol." Each title comes with a curriculum guide with expanded activities. "Grizzly" is now available from your local software retailer; "Whales" will be out next year.

For more information, contact: Christopher Palmer, Vice-president and Executive Producer, Audubon Television Programs, 801 Pennsylvania Avenue, S.E., Washington, D.C. 20003; (202) 547-9009.





### **Keeping the Birding Faith**

hile most people are still making plans for Thanksgiving dinner, Auduboners have already begun counting the days to the 89th annual National Audubon Christmas Bird Count. The Christmas Bird Count, or CBC, is one of the most enduring and popular among Audubon activities—or for that matter among all outdoor volunteer activities in America. Last year, more than 40,000 people participated in the count. And the CBC is for everyone—whether you have vast birding experience or none.

What accounts for the CBC's success? Well, for starters, it's just plain fun-an event of unparalleled camaraderie, a time to see old friends and swap stories. For many, it's a first chance to learn the joys and skills of birdwatching. For others, it's high-power, competitive birding at its best.

Moreover, taking part in the Christmas Bird Count means contributing to a vital scientific endeavor. Each year, National Audubon Society collects the results from the more than 1,500 counts—from Alaska to South America, Bermuda to the Pacific-and publishes them in its esteemed ornithological journal, American Birds. The resulting data base is one that is tapped over and over again by scientists and researchers worldwide to uncover important avian population trends. There is simply no better source for this information.

To participate in this year's CBC, contact your chapter leader, or write American Birds, Christmas Bird Count, 950 Third Ave., New York, N.Y. 10022. Good birding!

### Birders Hail New Field

he Birder's Handbook: A Field Guid History of North American Birdsich Paul Ehrlich, David Dobkin, and Dami nally previewed in American Birds, No. Society's field-birding journal, the Hands new addition to every birder's bookship pages are a comucopia of information compact enough to earn the "field guide"

Species accounts appear on left-hand Handbook; they summarize with word a dubon. key information on each bird's biology, in Information Services handles a whopping 30,000

in bookstores.

### Record-breaking Birdah

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nolta and Polaroid cameras; Roger Toy im sauce. Congratulations to all!

saw 259 species by sending 11 teams out at assistance to you, please drop us a line! The Everglades, Florida, chapter raix amount of money—more than \$15,000-Clara Valley, California, chapter had the pledges: \$750 per species!

One of the most important reasons dented success of this year's Birdathon could allocate 50 percent of their proceed program or office of their choice while half for their own conservation activities can bring the money as close to home a office, for example, or an Audubon sanctu Attracting sponsors and raising money in can tell folks where the money is going

Next year's Birdathon is expected 100 chapters and to see great increases funds (and fun!) raised by all. Go for

### Information, Please By Barbara Linton and Ann Stevens **National Audubon Society**

K. You've always wanted to know the answer to the question, "Are there special contact lenses for nightebirding?" Who do you call for the answer? You could your friendly chapter bird expert. Or, you could call ormation Services at the New York office of National

eggs, habitat, conservation, etc. The mines a year, from queries about bird behavior to contain fascinating essays on related to pack fround materials on acid rain. During the migration to brood parasitism. The curious learn, about half of the calls and letters come from how owls hunt in the dark or about bits dents, mostly in the elementary grades. The topics of Extensive cross-referencing and bibliographerest include wildlife, endangered species, pollution, tion make this book an invaluable resource other environmental issues. We fulfill hundreds of The Birder's Handbook costs \$1455 wests from teachers who are looking for educational terials for classroom use. We provide reading recomndations, information on the Society and its programs, I back issues of Audubon magazine.

And then, of course, there are birds. The general mail sists of questions about bird feeding and bird speciesfavorites are bluebirds, purple martins, and humming-

he 1988 Birdathon is history—and this. Of the approximately 6,000 phone calls received made! One-hundred and sixty-one aually, problems with pigeons and woodpeckers are total of \$200,900—both record-breaking the tered throughout the year, while calls about injured and thousand people went birding; nearly May birds predominate in spring and summer. When it nated) were awarded to 90 chapters. Tornes to the feathered tribe, no question is too silly. One Zeiss, Leitz, Nikon, Minolta, and Swifther even wanted to know if birds will eat spaghetti with

Guides from Easton Press; Gates Glove Besides answering questions, Information Services Boots; Pacific Coast Feather Down Comircers some callers to other organizations that have a Ecology Camp Scholarships; Audubon bicialty in a specific area. We help newspaper and scriptions; and Audubon Sanctuary var gazine reporters check facts, and—as "communication tral" for Audubon, we distribute brochures to our More birdathon records: the Dallas ional offices, sanctuaries, and chapters. If we can be of

### **AUDUBON and Activism** Work for Each Other

eaders of Audubon usually enjoy the magazine's beauty and the elegance with which it presents environmental topics. But activists should not forget that the magazine is also one of the finest political tools available. During the past year alone, the magazine has run more than a dozen articles focusing on the National Audubon Society's High Priority Campaigns, including six on wetlands, two on acid rain, and three on old-growth forests. The entire May issue was devoted to the Arctic National Wildlife Refuge. The magazine also covered a broad array of other topics of NAS concern, including pesticides and international issues.

Audubon does more than provide nicely packaged information, however. It is also a vital tool for effecting change. For example, Washington lobbyists used the May issue on the Arctic Refuge to reach Capitol Hill, , and the magazine's thorough analysis of the financial loss that clearcutting of Alaska's Tongass National Forest means to the federal government was bound to recruit budgetconscious congresspeople into the environmental camp.

Look for the upcoming March issue focusing on the world's oceans, and a spring issue about the problems of the Platte and Rio Grande rivers. Expect, too, more vital information on acid rain, wetlands, and other crucial issues. When honing your weapons for the next battle, don't forget that one of the sharpest tools at your disposal is AUDUBON.

ctivists who want to do even more—to get behind the scenes and into the fray—can join Audubon's Activist Network. The network gets you a subscription to the bimonthly newsjournal of environmental issues, Audubon Activist, and puts you on the mailing list for Action Alerts on especially urgent issues! You also receive National Audubon's Hotline number for up-to-the-minute news. For membership in the Activist Network, send \$9 to Audubon Activist, 950 Third Ave., New York, N.Y. 10022.

