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A Peregrine portrait.

MAN HAS EMERGED FROM THE SHADOWS of antiquity with a Peregrine on his wrist. Its dispassionate brown eyes, more than those of any other bird, have been witness to the struggle for civilization, from the squalid tents on the steppes of Asia thousands of years ago to the marble halls of European kings in the seventeenth century.

-Roger Tory Peterson

And the peregrine falcon still remains on the wrist of humans — their lives twined with ours — their fate on this planet very much dependent upon us.

The Peregrine Falcon [Falco peregrinus anatum], one of the swiftestflying predatory birds in the world, is an endangered species. Its

presence has been recorded along coasts, in mountains, and in wooded areas of much of the United States. Approximately 100 pairs were successfully reproducing in California as recently as 1946. In the early 1950's, a decline began which intensified in later years. By 1970, fewer than five breeding pairs could be found in California.

The decline of the Peregrine population is linked with the use of the pesticide DDT. While this pesticide does not harm the adult Peregrine, it has devastating effects on the successful hatching of the young. Although DDT has not been used legally within the United States since 1973, effects of the persistent pesticide are still present.

Peregrine, which means "wandering", describes not only the behavior of these falcons, but that of their prey. Peregrines feed on smaller migratory birds, catching them in flight, while diving as fast as 180 miles per hour. These prey species, such as swifts and swallows, migrate annually for the winter months to Mexico and South America, where they consume large quantities of insects bearing traces of DDT.

Insects feed on vegetation which has been treated with DDT (still legalized for use throughout South America); Swifts and Swallows feed on the insects — the Peregrines feed on the Swifts and Swallows. In each step of the food chain, DDT becomes more highly concentrated; these concentrations of DDT, and its metabolite DDE, interfere with the



A member of the team from the Santa Cruz Predatory Bird Research Center makes his precarious climb to the Peregrine nest high on a Valley wall.

Peregrines' hormonal system which controls the deposit of calcium in eggshells. Resultant eggshell-thinning produces premature cracking and dehydration of the egg. Consequently, Peregrine reproduction rates are so low that both the federal and state governments have placed the Peregrine on their list of endangered species. It is cause for celebration among conservationists that there are two active nesting sites of the endangered bird in the Sierra Nevada. Both are in Yosemite.

One nest was observed in 1978. To protect these magnificent birds, the area immediately surrounding the nest site is closed annually from January 1 to August 1 during the critical nest selection, mating, hatching and fledgling periods. To further ensure protection from human interference, the National Park Service, with the help of the Santa Cruz Predatory Bird Research Group, carefully monitors the nest. In 1978, one young Peregrine was hatched. In the autumn, when the adults and fledgling left the nest, biologists removed the remaining egg shell fragments. Measurements revealed that the Peregrine's egg shell was 18% thinned. Reproductive success was surprising, as a DDT-burden reflected by 15% thinning consistently has proven to result in nest failure.

National Park Service staff and researchers were not surprised, however, when in 1979 only one adult Peregrine was

observed during mating season. But in 1980, the nest was active again, and two young were produced. Eggshell fragments revealed 13% thinning. It seemed that a DDT-free environment and protection from human interference perhaps would provide a reprieve for the Peregrines. When three young were produced in 1981, the success story seemed certain, but autumn measurements revealed an ominous 17.4% thinning in the eggshell fragments.

After wintering, perhaps in the Central Valley, the Peregrines arrived this year in February to select a nest site. Courtship displays were observed in March, and four eggs were laid in April. To ensure successful hatching of the young, biologists carefully removed the eggs from the nest, and incubated them at the Santa Cruz Predatory Bird Research Laboratory. The eggs were replaced with two newborn Peregrines, hatched in captivity. The adults readily accepted the newborns, and by August the young were mature enough to leave the nest and live independently.

The eggs, incubated in the laboratory, hatched in June and were fed food free of DDT. They have since been released in the wild. This tactic of nest augmentation, funded in part by a \$2,000 donation from the Yosemite Natural History Association, is extreme, but so is the jeopardy of this species.

Those so fortunate to have watched a Peregrine, tucked in a 180 mph dive in pursuit of prey on the wing, is likely to recall the feeling of excitement and exhilaration the scene created. This predator-prey act is repeated millions of times, by as many species of life, in the scheme of survival. No one knows how many creatures are being reduced to extinction each day by man's thoughtless, if not wanton, acts. It is known, though, that the Peregrine cannot survive in an environment constantly becoming more hostile.

To conclude that our future is linked to the future of the Peregrine is perhaps an environmentalist's cliche. But, it would seem to follow that man's future and fate is analogous to the falcon's, and that his attitude of indifference or ignorance can certainly imperil his existence.

-by Vicki Jo Lawson

Vicki Jo Lawson has worked on the Park's interpretive staff for seven years. Her abiding concerns are for the environment, son Ben, Peregrine falcons, and her husband, though not necessarily in that order.



Grab your partner! The square dance was a rousing success.

OUR SEVENTH ANNUAL MEMBERS' MEETING at Wawona came off well, despite somber skies and a more-or-less continuous drizzle. We recorded 240 members in attendance, a turnout which was some fifty greater than at previous meetings.

A first-rate buffet lunch was served in the hotel dining room, on the porch and wherever else there was cover; the Wawona Hotel staff did a remarkable job of shifting the lunch site from out-of-doors to inside.

We'd intended to hold the meeting on the green within the Pioneer Yosemite History Center. Mike Adams, supervisor of the Center, made a quick switch and got us in the Grey Barn; hay bales provided seating. YNHA Board Chairman Tom Shephard and Len McKenzie, Chief Park Interpreter and YNHA Coordinator, conducted the business affairs.

We had expected Park Service Director Russ Dickenson to

deliver the day's address. His affairs demanded his presence elsewhere, but Howard Chapman, NPS Regional Director, filled in. He was an excellent substitute, and we welcomed his lastminute help. Park Superintendent Bob Binnewies followed Mr. Chapman in addressing the members.

The day's first social event — the wine and cheese hour — was held on the old covered bridge, another of Mike Adams' serendipitous moves. Rain drummed on the bridge roof, the river roared underfoot, it was dark and dank, but the very primitiveness of the scene seemed to bring people together. The day's



A lucky winner! Len McKenzie (left), and Tom Shephard (center), presided over the raffle.

second social event was the Big Barn Dance, with music by the Wawona Square Dance Band. This was presided over by Mike Adams, who turned out to be a square dance caller of no mean ability. He kept the hundred or so dancers allamaning, bowing and do-si-doing to a fare-thee-well.

The weather moderated on Sunday, and our program of runs, hikes, bird-watching and living history demonstrations took place as planned. It appeared that the members enjoyed themselves. The YNHA staff enjoyed its involvement, and came away with a warm — albeit damp — feeling that at next year's meeting we hope for 400 members.





National Park Service Regional Director Howard Chapman (top), and Yosemite Superintendent, Robert Binneweis, addressed our member gathering.

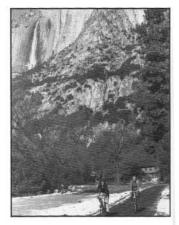


In the old days bicycles like these were called "ordinaries."

BICYCLES have been around the Valley for a good while. Not so many were hauled in by cyclists as now, but there has been a bike rental stand at Curry since the mid-thirties and, so far as we can determine, Goldie Goldstein ran the first bike stand. He was followed by Mike Berger.

Since the mid-sixties, the use of bikes has proliferated at a quantum clip, and the Curry people now have 350 at their rental stands who knows how many visitors bring theirs in.

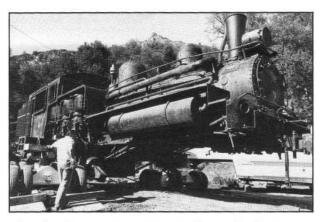
Bicycle pathways emerged as the obvious solution to the distress



The new bike path. OSBORNE, N.P.S.

caused by cars and bikes sharing the roads. And, according to an NPS press release dated November 10, the first leg of what will be a 2½-mile, 8' wide bike path has been completed between the Curry bike stand to Yosemite Village. Next year, the remaining stretch, to the Yosemite Lodge bike stand, will be complete.

The bikeway will allow cyclists to pedal through the most-used part of the Valley without interfering with, or being threatened by, auto traffic.



The Shay locomotive, minus its front wheels; it was used on the Hetch Hetchy Valley RR in log-hauling service. GYER. N.P.S.

THOSE OF US who commute to work in the Park on Highway 140 noticed last month that at El Portal, the old rusting Shay locomotive was being dismantled. The scabrous yellow Bagby Station and the spindly water tower were gone, as were a caboose and a baggage car, once a part of the Yosemite Valley Railroad's rolling stock. These relics comprised an obscure NPS transportation museum, much of which was behind a gas station and a line of immobilized autos.

They're gone, but not far, as their refurbishment and relocation to a nearby area represents completion of



Drive mechanism and water tender from the Shay. GYER. N.P.S.

phase I of a two-part program to rehabilitate the El Portal Railroad Exhibit.

The second phase provides for a visitor service area to include exhibit and orientation facilities and construction of a train shed, and the reconstruction of an early-day turntable. Funding for the complete project will run in the neighborhood of \$175,000, and has been made available through a congressional appropriation entitled the Park Rehabilitation and Improvement Program and is a part of the Park's general management plan.



Rolling down Highway 140 — the water tender on its way to the new Transportation Museum site. OSBORNE. N.P.S.



OSBORNE. N.P.S.



YVRR caboose number 15. OSBORNE. N.P.S.

SOME OF THE MORE mature members of the Association may remember the YVRR. For the youngsters who don't, here are a few facts: It operated between Merced and El Portal between 1907 and 1945; from El Portal to the Valley in the earlier years, tourists rode horse-drawn stages. On a busy June day in 1909, sixty-eight stages, drawn by 272 horses, hauled 600 dusty tourists to the Valley. Somewhat later, autobusses came along. Frequently, the more elegant car-owning tourists put their automobiles on a flat car in Merced for transport to El Portal. From here, they drove the 14 bumpy miles to the Valley, where they toured at their leisure.

There was a rather elegant hotel at El Portal — The Del Portal. It had 100 rooms and a dining room that seated 150. Though it was quite possible for a Yosemite-bound tourist to leave San Francisco in the morning and reach the Valley by evening, train schedules were so fixed that passengers were obliged to stay over in El Portal. David Curry, Camp Curry's founder, felt the schedules were unfair to Valley innkeepers, including himself, and was successful in his demand that railroad service be instituted to provide through service between San Francisco and the Valley during daylight hours.

Between 1926 and 1945, the financial fortunes of the YVRR moved up and down, though mostly down. The completion of the All Year Highway (140) into the Valley in 1929, the stock market's collapse, a devastating flood in 1937, and the end of logging and mining operations in the canyon in '42 and '44, put the line so far in the red that recovery loomed impossible, and on August 24, 1945, the last run between El Portal and Merced was made.

RESEARCH LIBRARIANS Mary Vocelka and Linda Eade have scanned several of conservationtype publications to which the library subscribes, and have found the following articles to be of more than usual interest. We'd be happy to photocopy these for you, if you wish.

Can We Save the Law That Saves Endangered Species? by Rosemary Carey, Sierra Magazine, May/June 1982; pages 35-42.

"The Endangered Species Act of 1973 has been one of the most controversial statutes in the history of environmental protection and has been widely publicized — and misunderstood." The act is being challenged in Congress; this article reviews the proposed changes.

Clarence King, adventurous geologist by J.I. Merritt, American West Magazine, July/August 1982; pages 50-58.

"As a field geologist, Clarence King saw the chance to fulfill both his esthetic and scientific goals." This article presents a biographical sketch of a man distinguished as a scientist, adventurer and man of letters, a blend of scientist and romantic. King was a member of the 1864 party which surveyed the boundaries of the newly-designated Yosemite National Park.

Rigging the Wilderness by Kevin C. Gottlieb, PhD, The Living Wilderness; Part 1, Spring 1982; Part 11, Summer 1982.

In Part I of this article, Kevin Gottleib laid bare the absurdities behind industry's assertions that the nation's present energy needs are so extraordinary that it is imperative to allow drilling in the "locked up" lands of the wilderness system. In Part II, the author examined public opinion on the question and takes a look at what it would cost — to the industry and to the wilderness. He concludes, it isn't worth it.

FROM TIME TO TIME, we've reported on our UC Davis intern/trainee programs, which ended in late September. Newer Association members may not know about the intern program. We select a half dozen or more superior students from UC Davis who train as interpreters on spring weekends. Then, come mid-June, they report for duty in one of the three districts in the Park — Wawona, the Valley, and Mather District, which includes Tuolumne Meadows. During the summer, the interns provide excellent interpretive assistance and gain exceptional field training in their chosen careers. YNHA invested about \$7,000 in the program, and we feel it was money very well spent, though without member support, the program would not have been possible.

Of last year's crew, we learned that five of the six pursued an activity this year that was related to their career goals, and in a measure was made possible as the result of their work here and the training program laid out by the Yosemite interpretive staff. Two members, Michael Nachman and Paul Gallez, worked here this year as seasonal interpreters; Monica Hart was with the Yosemite Institute; Valerie Connor worked for the Nature Conservancy, Mark Hooten with the US Forest Service in Washington. Only David Erley strayed: he's in a UCD agricultural program.

Before this year's class left, we asked some of the members for a few words on their summer's experience. They follow:

It seemed so idealistic to be working in Tuolumne Meadows and spending free time backpacking and hiking. That had been a hopeful dream as I spent most leisure preparing programs for above-average audiences. I have gained valuable and memorable experience working with a tremendously knowledgeable and helpful staff. It's been a great summer! —Susan Kemper

Visitors on their first visit to Yosemite often ask, "What are the best things to see?" The answer is "Simply everything!" But time is short, and sites unlimited. Yosemite deserves respect and appreciation. I'll spend my free time next summer learning to do just that. —Marguerite Paras

Working here in Yosemite National Park is a dream come true, and hopefully a dream just starting to be fulfilled! I really enjoy the mountains, especially the Sierra Nevada, and I was ecstatic to be part of the Interpretive Program for YNHA. The people here have been (and are) very nice, and very supportive. —Dave Dahler

While the cooperation shown by the UC Davis people has been outstanding, and the quality of the trainees exemplary, our Board of Trustees recommended that we "recruit" at other colleges as well. So, we are working with Stanford and California State University, Sacramento, as well as UC Davis, for the 1983 intern program.

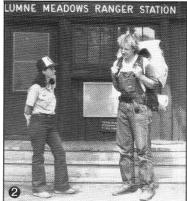
THERE MAY BE POSSIBILITIES for volunteer employment with YNHA in Yosemite come next summer. These positions could only appeal to those who love Yosemite, as the rewards consist of \$6.50 per day subsistence and housing in a humble tent cabin.

YNHA may need help at the Tuolumne Meadows Visitor Center and at Parsons Lodge – lots of public contact and help with book sales. At the Pioneer Yosemite History Center at Wawona, the position involves book sales, some living history interpretation plus related responsibilities. At the Mariposa Grove of Big Trees we need a friendly person willing to sell books, dispense information and provide help to visitors.

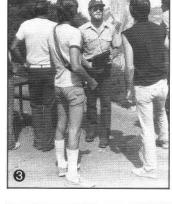
If you would enjoy a summer in the Sierra mainly helping Park visitors, give us a call at the History Association. Our phone number is (209) 372-4532.

Please understand that the above is speculative, and we cannot at this moment make any commitment — we must learn, first, if anyone is interested and who they might be.

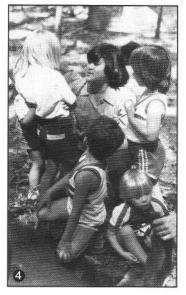




- 1. Katie Maguire at work in the Valley.
- Susan Kemper counsels a weary-looking backpacker at Tuolumne.
- 3. Dave Dahler at Glacier Point.
- 4. Kathryn Yee, with a group of youngster at Wawona.
- 5. Eli Harris about to set forth on a "bike hike".
- 6. Carla Britton, with her charges, on a Valley program.
- Marguerite Paras discoursing on lodgepole pine needles at Tuolumne Meadows.
 OSBORNE PHOTOS. N.P.S.





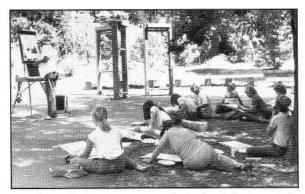












Southern California watercolorist Jay Mosby, with a class on the Village Mall. OSBORNE PHOTOS. N.P.S.

ABOUT A YEAR AGO, we reported on the first year's experience at the Art Activity Center. The first year was good, the second year was great! On the average, about twenty-two visitors participated in the classes each day, a number we consider quite rewarding.

The Yosemite Park and Curry Co. people continued to feed and house the visiting artists and to staff the Center; Manager Marcia Reeves, assisted by Brian Wolf, did splendidly at organizing the classes. Dozens of people have written to express the pleasure the classes had brought them.

Claire Haley, our office manager/ bookkeeper, added to her duties by scheduling in the artists for their teaching tours; she kept the place lively through closing last month. The Center will be open for holiday periods and May weekends, then open full-time starting June 4.

With the help of YPCC, the National Park Service, and YNHA Board member Gene Rose, we installed a

compact, completely equipped darkroom; this adds a great deal to the value of the photography classes.

It has been interesting to note that, as the Center's existence became known among professional artists, Claire has had many inquiries about joining the staff. The fact that the teachers get to spend a week in Yosemite probably is fairly persuasive.

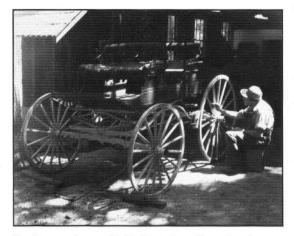
IN 1973, A HANDSOME LITTLE TWO-SEAT SURREY was donated to the Association by a former Yosemite Ranger, Clyde Quick. Quick had served as a backcountry Ranger for 29 years.

It was stipulated by Mr. Quick, and agreed to by YNHA, that the buggy would be restored and placed among the other exhibits at the Pioneer Yosemite History Center. Now, nearly ten years later, the buggy is bright and shiny, and has joined the other historic horse-drawn vehicles on display at the Center.

When the restoration was nearing completion, we asked Mr. Quick about the early life of the buggy. He responded with the following:

The antique two-seat "Miller Rig", donated in 1973 to YNHA, was originally purchased by my great-grandfather and grandmother, Morgan Warren Quick and Deborah Stuart Quick, in the early 1860s for family transportation in the Ben Hur and Mariposa areas. It was pulled by two of Morgan's fine Morgan horses.

Morgan mined gold and took out approximately \$80,000 (at \$16 per ounce) with his handcrafted mining "rocker" and "long tom" from his claims on Oak Spring Creek, just two miles northwest of the town of Mariposa between 1849 and 1859. On August 19, 1859, he bought his first 160 acres from the Harris brothers for \$250; the land was surrounded by a common brush fence, and had on it a two-room plank house. This was the start of the Quick Ben Hur Ranch...now 123 years old! Morgan and Deborah had two sons — Mark, born August 13, 1855, and Morgan Junior, born February 9, 1858; their families used this rig until the early 1900s to attend Mariposa



Craftsman Loren Guthrie stripes the wheels on the restored surrey donated to the Pioneer Yosemite History Center by former Park Ranger Clyde Quick. NPS РНОТО

gatherings and for shopping, as well as for community affairs near the ranch.

The rig was really a four-seater — two sitting in front, and two in the back — with a top supported by four wooden braces or posts, with two-inch fringe hanging from the top all around, and with upholstered seats.

The rig was inherited first by Guy Elmer Quick from Morgan Junior in 1922; then I inherited the rig in 1964.

It gathered dust in our barn until 1973. I wanted to get it restored, so took the wheels for repair to Wawona, where I understood a wagon carpenter worked. There I learned from the district naturalist, Bill Dengler, that the man had moved to Hollywood. But, Dengler and I worked an arrangement whereby he could have the wagon if he'd restore it. In November of

that year Dengler came to the ranch to get it. It's taken a long time, but the family and I are pleased that it's back in good condition.

OUR SYSTEM for keeping membership records has been cumbersome, and even though the Curry Co. computer people have allowed us to store names, addresses, etc. on their machines, occasionally we've fallen behind in mailing renewal notices each month as they came due. In addition, we've had a succession of people handling membership records, which didn't help matters.

We're setting up a new system, which we think will eliminate the major bugs. The improvements will include changing from a monthly to a quarterly renewal basis — October, January, April and July. For example, if one becomes a member in June, the renewal date will be July of the following year.

We've gone over the massive print-out records, and believe everyone's accounted for. Everything should be ''shipshape'' by now. But, please let us know if there's any mix-up on your membership.

VISITORS TO THE PARK'S INDIAN VILLAGE during the past summer were greeted by cultural demonstrators wearing the long, flowing calico gowns common to the 1870s. Earlier, the women had worn costumes typical to the period prior to contact with whites, which took place in the mid-sixties.

The seventies was a period of intensive change for the Indian people of Yosemite, a time when the best of their traditional culture was blended with the best of the culture of the white men who were living in the Valley.

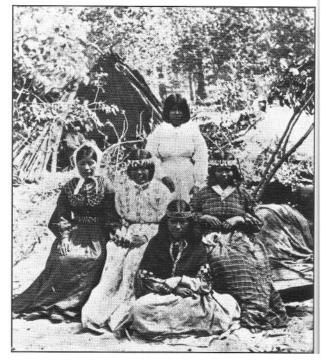
Park researchers carried on an intensive study of the period and the resulting programs presented what might be the country's most authentic recreations of Native Americans' life. Each item of clothing, cooking gear, food, the dwellings, the children's games, was meticulously researched, the whole portraying a highly accurate picture of the life of the Yosemite Indians during the seventies. The cloth used in creating the women's clothing was located only after a long hunt, and some was printed to order from the same plates used in the seventies; that which couldn't be found was hand-woven to replicate the material of the period.



1982 - 1872. In the left-hand photo, present-day Indian cultural demonstrators are wearing costumes typical of those worn by Yosemite Idian women in the 1870s, as shown in the other photo which was made in 1872 by the noted Yosemite pictorialist, Eadweard Muybridge.

During the demonstrations, the village women worked at such tasks as basket weaving, acorn grinding, fashioning beaded yokes, a newly acquired item of dress; they provided visitors with cups of manzanita cider, or bites of local mushrooms.

The researchers, the fabricators, the demonstrators and the present Yosemite Indian community did a remarkable job, and their effort was rewarded by the enjoyment provided thousands of Park visitors.



NEW MEMBERS. We welcome to membership in YNHA the following good people.

Richard Aquirre Bill Albright Jonathan Alderfer Michael Allderdice and Linda Auerbach Theresa Ann Alves Mark P. Amberg Peter Anderson Louise C. Anderson Mark and Diane Arkinson

Geoffrey R. Austin Raymond F. Bacchetti Roger S. Baer Adah Bakalinsky Laurie Barkel Dale and Lucinda Barnett Stephen Barnhart Mary L. Barr Kit Basom Sue Beatty Frank Beck Sally Beck Allan Finney Bedwell Marilyn E. Beffort Kristen Bender Wendy Bents Robert D. Berka JoAnn Bigham Robert O. and Esther M. Binnewies (L) Jackie L. Bone (L) leannette I. Borovicka Freeman C. Bovard Harry F. Bower, Jr. Tep Boxer Anita Jane Bradford Carla L. Britton Gerald I. Brown Marvin and Adele Brown Nellie S. Budd Alice Burberv Glenn E. Burch lack Burke David B. Callais lanet Carle David Carlson Sherry Carlson Teri Carroll Lvnn E. Chapman Bobbe and Robert Christopherson Mr. and Mrs. Barret Clack Damon Cline Dorothy L. Cline William C. Cole Kathleen Collier (L) Vicki Cook **Richard** Cooke John F. Cooper Kenneth and Mary Cooperrider Catherine E. Cole Rod Collier Christopher Collopy John and Mariann Crane Paula Crauthers Michael S. Crowell lack P. Crowther, Jr. Steven Dahl lanet M. Deerv Margaret Dickey Dennis Dieterich Laurie "Sunny" Doan Eve Donlon Michael L. Doyle Albert Droll Dave DuBose Thomas E. Eilers Rob Eusebio Bernie Fairfield Ruthe A. Ferguson Joy Ferrell Al Fleischman **Beverly Fleming** Jack K. Force Diana Foss Georgienne R. Foster Elizabeth Franko Glenn Frederick Gerald D. Friedman Kate Froman Robert L. Fry (L) linny Fruin Penny and Greg Gallo (L) Nancy Gasich Craig Gibson Susan F. Gilliam Susan Greenfield Jason R. Griffin Mary M. Griffin Robert Griffin Edward R. Grumbine

Steve and Helen Hancock Phyliss Hargrave James B. Harnagel Elizabeth Harris Shirley Harris Mary Ellen Hart Monica J. Hart The Hatherley Family William J. Hayes, Jr. John and Connie Healy lames and Doris Heckert Elly Hess Mariorie E. Hesse Steve and Janice Hickman Paul B. Hinshaw Jan M. Hirabayashi Cheryl and Kathie Hirata John and Dolores Hiskes William Larry Hodge Linda Hogan Mary-Stewart Hoopes Katherine Horikoshi Susan Hedge Hossfeld David Hough Linda E. Hubbs Robin A. Hubert Vincent G. Huening Carston Hughes Margaret D. Hughes Judith E. Hunsaker Samuel I. Huntington Sally and Kevin A. Hutchings Stan Hutchinson The lorid Family Ioan M. Irwin Zane Johnson Denis and Marjorie Johnstone Vera R. Johnston (L) Kenneth P. Iones Mary Craft Iones leffrey G. lorgensen Brenda Jung Travis D. Jackson Cynthia James David Jarl Robert and Eileen Jewell John A. Johnson Linda G. Katzman Lauren and Ken Kaushansky George and Johanna Keirns Susan Kemper Melody Kercheval Harry Koons John M. Kovac Dan Krag Douglas Alan Kunz Dorothy C. Lamb The James Landreth Family The L.W. Lane Family (L) Patrice Larkins The John Lawson Family Donald H. Lee Robert E. Lee losephine Lee William W. Lester III Sandy Liebman M. & G. Little, Jr. Helen R. Londe Joseph P. Lonero

Edwin D. Love Walter C. Lusk II Steve and Teresa Lynch Lawrence L. Lynn lov MacCarthy lanet S. MacDonald Katherine Lynn Macheroux Alice Mallory George Marsh Gary E. Martin (L) Lorraine and Don Martin Richard Martyr Elizabeth F. Massie Emily H. Matthews Carol Maver Iana Chia Meek (L) The Mersman Family Larry E. Millard Hazel Shorey Millen Martha Miller Charles B. Mitchell Helen 5. Moffatt Dr. and Mrs. Gerald Mon Pere Christopher Montgomery lim Moore W. McNeal and Claudia Moore Hal and Barbara Morris Thomas J. Moses Kem E. Muilenburg (PL) William F. McDonald (L) Kenneth McElvany Geraldine McFadden Peter McGee Bridget E. McGuire Nancy McInnis LouAnne S. McKeefery Andrew H. Naegeli John Nastro (L) Paul Neal (L) Michelle Nelson A. Nemec Diane Newell Roddy J. Nolten Elizabeth Novy Anton Nunnikhoven Cindy O'Donnell Carey T. Olson Carla Olsson Edward C. O'Rourke Julie A. Osborn Siegfried and Suan Othmer Laurence R. Pearson Josie Pepito Joel T. Perlstein Elen Pesavento Alan T. Peterson Virginia Peterson Diane Petromilli Mr. and Mrs. Donald Pimental Hugh C. Pitman Marsh Pitman Susan Kay Poage Alan M. and Beverly Portis Donna J. Prichard Clyde and Arthayda Ouick Gloria Raffo (L) John and Dawn Ramm Vonnie E. Read James and Nancy Ream

Karen Lea Reed (L) Karmen M. Reed Robert A. Reeds Marcia D. Reeves Charles Richter Kenneth C. Riegle (L) Mr. and Mrs. Michael Rivers (L) Ann and Daniel Roberts Madeline Rock Raul E. Rodriguez Raymond Rodriguez Rev. Lvnn Rollier A.I. Rubensteen Stuart Rucker Ed Russell William T. Russell William J. Ryan Mark Safran Robert W. Sandelin A. Sandie Phyllis Schaetzke John Schelhas Mary and Dick Schmalz Laurie Schneider Ann Schwalbenberg **Robin Shaver** Margaret Shaw Jean P. Shimer Iris Short Robert R. Sloan Mrs. J. Smart Craig R. Smith In Memory of David Smith (deceased) c/o Dr. and Mrs. George F. Smith (L)

Dr. and Mrs. George F. Smith (L) Maryann Smith Susan Smith Cathe Sobke Dorothy A. Sobke Ann Spears Anne C. Spencer Raymond and Lana Spencer David and Donna Spilman Harry Spilman Alana Spross Dorothy A. Stanley Penny C. Starr Fredericka M. Steele Burney and Roger Stephens C.M. Stephens Ruth and Roger Strange (L) Students for Environmental Awareness Stewart Surks (L) Michael D. Sutton Steve Sweek Charisse Sydoriak Walter Taguchi Mark Tanaka-Sanders Phyllis Tate Denise Lynn Tathwell lovce Thacker Mr. and Mrs. John Tickson Paul Tidwell Clark Trowell Mary Tryon Heidi Tschirren Gary Turner Mabel S. Turner Marvin A. Van Dilla

Michael S. Van Etten Candace Van Meter Lila Van Zanten Cindy Varenick Mr. and Mrs. Donald H. Victery Cynthia Waldron Doug and Susie Waltner Ellen and Harry Weaver Sherri D. Webb Victoria Welsh Mr. and Mrs. Melvin Weyand ludith A. Whann Mr. and Mrs. James Wheeler **Bill White** Maggie White Douglas Whiteside (L) Evan and Lori Williams Richard L. Williams Renee Wineland Martha Winnacker Gale and Louise Wright Steve and Helen Yates Kathryn Yee Stan and Ellen Zemon James Zidell, DDS

(PL) Participating Life Member (L) Life Member

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