



Vol. 5, July 1989
1989 NEWSLETTER

Greetings

Thanks to all of you who supported our Department this past year. We sincerely appreciate that many of you care enough to stay in touch and we look forward to hearing from even more of you this year. For those who were able to contribute financially to our program, I can assure you that your generosity played a **substantial** role in many of our achievements and we offer our heartfelt thanks for your support. Don't stop now!

A lot of exciting things have happened in the Department this past year: we have hired superb new faculty, produced our own Nova-type departmental video, said farewell to Bill Martin as he retired after 30 years of dedicated service, hosted and conducted our own graduation ceremony, started a unique "sister-campus" program with the University of Wisconsin, became one of only 17 Long Term Ecological Research (LTER) sites funded by the National Science Foundation, helped the University celebrate its centennial anniversary, and took enjoyment and pride in the success and accomplishments of our faculty, staff and students. We hope you will share our excitement in learning about some of these developments as you read our 5th Annual Newsletter. Enjoy.

Donald W. Duszynski
Professor & Chairman

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Faculty Highlights

Cliff Dahm spent August 28 to September 14 at sea off the coast of Washington on the Woods Hole Oceanographic ship the Atlantis II. The Atlantis II is the mother ship to the submersible ALVIN, probably best known for its discovery of the Titanic. Dr. Dahm was involved in a cruise to study the geology, chemistry, and biology of marine hydrothermal vents on the Endeavor Ridge, a site approximately 200 miles west of Seattle. The research program involved 15 dives on ALVIN to a site at 2200 meters where unique oases of marine life are found supported by chemical energy rather than light energy. Waters that are the hottest ever discovered on earth, 352 C, enter the deep ocean from volcanic hot springs at this site. Cliff was the chief scientist on two dives with ALVIN that sampled the chemistry and microbiology of these extraordinary marine ecosystems.

Randy Thornhill is the recipient of a "Senior Distinguished Scientist Award" (Humboldt-Preis) of the Alexander Von Humboldt Foundation of the Federal Republic of Germany. This is the highest award that the Humboldt Foundation can bestow on a scientist. Dr. Thornhill will use funds from the award to cover expenses associated with his upcoming sabbatical research in England and West Germany. Expenses involved in moving his family to Europe for his sabbatical year of 1990 are also covered.

Diane Marshall was awarded a prestigious Presidential Young Investigator Award by the National Science Foundation in March. 197 awards were made nationwide, with only

4 awarded in Dr. Marshall's area of study, ecological sciences. Diane is the only recipient of this award in New Mexico this year.

This PYI award provides support for Diane's research in plant reproductive ecology. She studies mating patterns in plants and their implications for selection. This research addresses basic questions about plant reproduction and is relevant to studies of breeding crop plants. The award can provide up to \$100,000 per year for five years for research support in a combination of NSF and matching funds.

Jim Brown and Astrid Kodric-Brown will be visiting the Soviet Union this summer at the invitation of the USSR Academy of Sciences. Professors Rogovin and Shenbrot have invited the Browns to spend a few days at the Academy in Moscow and then travel to one of their field sites in the deserts of eastern Asia. The Browns will spend two weeks in late July and early August in the USSR. They will also attend the International Ethnological Congress in Utrecht, the Netherlands, drive through France, and attend the International Theriological Congress in Rome, Italy before returning to Albuquerque.

Manuel Molles and Cliff Crawford, along with the city of Albuquerque, would like to know what's next for the Bosque? The city and state are charged with managing the Rio Grande State Park which runs right through Albuquerque. Students in Cliff and Manuel's unique field course, Bosque Biology (Biol. 407/507) are examining this 25 mile stretch of river and woodland. Born out of the need to "explore our own backyard", this ecology class is taught somewhat differently each semester. Enrollment is limited to 15 students; prerequisites include previous exposure to biology and a strong desire to learn about the Bosque. A critical, written evaluation of class research results is expected from each student.

To date, students have approached the course with enthusiasm despite exposure to heat, cold, precipitation, and Russian Olive thorns. Tree demography and tree-soil relationships in permanent plots are current foci. Class data are being summarized for distribution to member agencies of the Albuquerque Open Space Technical Planning Team, to which Manuel and Cliff belong. In all, students get "hands-on" field experience that translates into environmental

management. Migrating birds will someday be grateful.

Jim Brown and Jonathan Roughgarden of Stanford organized a workshop on "Ecology for a Changing Earth". Held in Santa Fe November 30 to December 2, 1988, it was sponsored jointly by the National Science Foundation and the Department of Energy. About 25 diverse ecologists (including **Bruce Milne** of UNM) and 15 observers from government agencies participated. Discussions included the need for ecological research to address the enormous changes in climate, land use, and biological diversity that the earth is presently experiencing as a result of the expanding human population and its global impacts on land, water, air and living things. These problems are critical. The continued habitation of the planet by our own species and by millions of other species of living things is in jeopardy. The scientists noted that most recent ecological research has been experimental studies of short duration on small, homogeneous sites where there has been minimal human disturbance. The workshop called for increased research on the roles of humans and on the effects of scale, heterogeneity, and the openness in ecological systems, and it recommended the creation of a new federal agency to give highest priority to research on critical environmental problems.

Howard Snell organized a symposium/workshop on the herpetology of the Galapagos Islands. This international symposium, funded in part by a grant from the Tinker Foundation, Inc. was co-sponsored by the Herpetology Division of the Museum of Southwestern Biology and the Department of Biology. Between the 29th of May and the 11th of June, 1988, 72 scientists, students, and resource managers met at the Galapagos National Park Service offices in Puerto Ayora, Galapagos, Ecuador, to review research and management priorities for a number of threatened and endangered reptiles. Participants came from Latin American countries, Europe, Australia, New Zealand, and North America. Our department was well represented by several undergraduate and graduate students, faculty, and other associates including **Phil Heise, Pimmy Nieuwolt, Derrick Sugg, Bruce Milne, Bill Rice, Tom Fritts, and Howard and Heidi Snell.**

The results of the event will help the Galapagos National Park Service and the Charles Darwin Research Station manage the 21 species of tortoises, turtles, iguanas, lizards, and snakes that comprise the reptile fauna of the islands. Approximately 97% of those species are endemic to the archipelago, and at least 30 populations of those are threatened with extinction. The basic message of the symposium/workshop was that we know woefully little about the ecologies, genetics, and distributions of these organisms. Unfortunately, in many cases there is not enough time to conduct the necessary research before trying to manage the populations. Consequently, the plan for the next 20 years involves balancing research and management in a manner that hopefully will insure the greatest possible diversity of reptiles for the future.

William C. Martin

Professor Martin retired in May after 30 years of teaching, research, writing and community service in the Department of Biology. Dr. Martin joined the faculty at UNM in 1958, just after completing his PhD in plant taxonomy at Indiana University. During his years at UNM Dr. Martin has served as the Curator of the Herbarium of the Museum of Southwestern Biology and supervised the growth of the collection to its present status as a major research facility. Under Bill's guidance the Castetter Laboratory for Ethnobotanical Studies was established in association with the Herbarium in 1980.

When Bill began his career at UNM his teaching assignment included plant taxonomy, genetics, evolution, and microtechniques. As the faculty grew Bill continued to teach a wide variety of courses in the botany area emphasizing plant taxonomy, but also including plant anatomy, mycology and plant pathology, as well as special topics in ethnobotany, evolution of floras, and plant genetics. In his course, the Flora of New Mexico, he has stimulated the interest of 2 generations of students, many of whom have gone on to do graduate work in plant taxonomy and other areas of biology both at UNM and at other Universities. It is appropriate that he is known as the Plant Chief or P.C. to the many students who have studied and worked in the Herbarium.

Dr. Martin and Dr. Charles R. Hutchins published the monumental 2 volume series,

The Flora of New Mexico in 1980-1981. Martin and Hutchins, with illustrator Robert DeWitt Ivey, have recently published a series of 3 volumes which are used by both professional botanists and amateur naturalists in the field identification of plants: Spring, Summer, and Fall Wildflowers of New Mexico.

In addition to his teaching responsibilities, which include direction of graduate student research and advisement of undergraduates, Bill has had a very active role in the community, providing a wealth of botanical information to the public. His assistance to the Poison Control Center in providing plant identifications and information on plant toxins has been invaluable in many cases of suspected poisoning. He has also provided extensive training in plant identification for employees of state and federal agencies.

After his retirement to Emeritus status, Bill will maintain an office in our Department to continue his research and writing and he will continue to be involved in the planning and development of Albuquerque's new Botanical Garden. Bill's long term plans include building a home and planting an orchard on land that he and Evelyn own adjacent to the national forest near Silver City, New Mexico.

A reception and dinner party were recently given in honor of Dr. Martin's retirement. These events were attended by many former students and collaborators as well as current members of the Biology Department. A plaque that will be placed in the Herbarium in his honor states, "he has given generously of his time and self for the benefit of others during his 30 years of service in the Department of Biology".

Department News

Video Review

The Department has a professionally produced video! During 1988 we combined funding from 2 outside sources, the Centennial Committee and the Office of the Vice President for Research, with departmental funds to contract the production of a "Nova" style video to be used in promoting our Department and recruiting students. The first step was to find a quality producer we could afford. After hours reviewing sample videos, we decided on Shawn Wallwork Productions. Shawn worked with us for 8 months accumulating footage from Department personnel, the BBC, and

many other sources. He interviewed faculty, filmed research and teaching activities, and produced a script.

Once the script was approved, only a couple of days of filming remained before Shawn began the final production work of editing, sound dubbing, and welding it all into a complete story. The final product is impressive and highlights the Department's breadth in biology by covering a few research projects in depth, and providing an exciting visual summary of many others. We'll use the video to promote our Department by sending copies to many of the high schools in New Mexico, the Regents of the University, and several state legislators. Segments of the video will be broadcast by Channel 5 during the rest of the university's Centennial Year. We also have a limited number of copies available for purchase. If you would like one, copies cost \$10 and can be purchased by completing the form on the last page of this newsletter.

LTER Project Started

In October, the Biology Department received a grant of \$2,400,000 for 6 years from the National Science Foundation for the Long-Term Ecological Research (LTER) project. Research will be conducted on the Sevilleta National Wildlife Refuge. This area encompasses nearly 250,000 acres, from the Los Piños Mountains in the east across the Rio Grande to the Ladronne Mountains in the west. It contains at least 5 major habitat types: juniper woodland, grassland, Chihuahuan Desert shrubland, Great Basin Desert shrubland, and riparian woodland.

The Sevilleta is one of 17 LTER sites across the North American continent from the arctic to the tropics. It is by far the largest and most diverse of the sites. UNM research will take advantage of this size and heterogeneity to focus on temporal and spatial variation in ecological processes. UNM biologists intend to use the environmental gradients and sharp boundaries on the Sevilleta to study the ways that climatic fluctuations over time are reflected in spatial changes in plant and animal distributions and in biogeochemical processes. There is particular interest in the year-to-year variation in precipitation in the Southwest and its relation to the El Niño climatic and oceanographic fluctuations in the Pacific Ocean. Long-term monitoring programs and experimental manipulations will follow the responses of everything from

plant, animal and microbe populations to the hydrology of entire watersheds.

The project coordinator, Bob Parmenter (PhD Utah State) and data manager, James Brunt (MS New Mexico State) will work with 18 UNM faculty and many graduate students. In addition, the project employs 3 full-time technicians, 8 graduate student research assistants, and 4 part-time graduate technicians. The Biology Department will involve undergraduates in the research activities and field experiences the LTER offers. This summer Bob Parmenter has 11 undergraduates working on the project.

Commencement

The Biology Department held its first Commencement Ceremony ever on May 13. Fifty students, 30 faculty and over 350 guests attended. The festivities began with an open house including videos, poster displays, a buffet lunch, and a cajun band.

To date, the Biological Society of New Mexico (BSNM) has focused on aiding graduate student and faculty research and related activities. The BSNM widened its scope starting with this Commencement. It featured the presentation of an Award to an Outstanding Graduating Senior in Biology, Rosanne Humphrey. Criteria for the award included performance in formal courses and contributions to the research activities of the Department. Rosanne, while maintaining an excellent grade point average, also completed research on chromosomal variation in a mammal species and is preparing manuscripts for publication. Honorable mention was given to Paulette Ford for her outstanding contribution to parasitology. Paulette has 2 publications. Previously little had been done to recognize undergraduates who contribute to the excellence of our Department.

Outstanding teaching assistants were recognized, and outstanding alumni were introduced. The Department plans to continue these new traditions allowing recognition and congratulates of all of its fine students, past and present.

Sister Campus

This spring, through the initiative of Dr. Margaret Werner-Washburne, we initiated a sister-campus program with the University of Wisconsin-Madison. As part of this program, Wisconsin will send faculty members to UNM to give talks and to interact with students. Wisconsin is funding this program because of the large numbers and high quality of the undergraduate

minority students at UNM and, specifically, in the Biology Department.

The first guest lecturer was Dr. James Crow of the University of Wisconsin Genetics Department. Dr. Crow is a member of the National Academy of Sciences, Editor of the journal Genetics, and a world renowned population geneticist.

This type of program is mutually beneficial in that Wisconsin has access to faculty advisors and students and the UNM Biology Department is able to strengthen its academic program by inviting additional, excellent seminar speakers without additional expense. Dr. Crow's visit was received with overwhelming enthusiasm by the Department.

Just The FAX, Ma'am!

This seems to be the year of the Fax and yes, it has come to the UNM Biology Department also. It enables us to have rapid communication with researchers in remote locations of Europe and South America. If you'd like to contact us our number is 1-505-277-0304.

Undergraduate Biology Degrees

Two degrees are now offered by the Department, a Bachelor of Science degree (B.S.) and a Bachelor of Arts degree (B.A.). The B.S. remains essentially unchanged and is more specialized providing a directed program of studies with an intensive focus on biology and related disciplines. The B.A. degree is more innovative and will hopefully help serve an increasing diversity of students.

The B.A. degree allows greater flexibility in the design of a program of studies. Supporting scientific subjects will encourage exposure to a broad base of scientific information and analytic tools. "Restricted" electives, outside the field of biology, have been added to improve the student's understanding of the philosophical or historical foundations of science, to enhance the ability to communicate professionally in various media, and to provide exposure to a diversity of approaches to problem solving or policy formation. To balance the greater number of course requirements outside of biology, fewer biology credit hours are required. Increasingly, biologists are working in multidisciplinary teams or are addressing complex problems that include facets outside the field of biology. Hopefully, our new B.A. degree, with its broad focus, will help cultivate graduates better prepared to be effective professionals in these demanding situations.

100 Years at UNM

UNM is 100 years old this year, but it wasn't until 1913 that Biology was first listed in a UNM catalogue as an "official" department. Before then, biology courses were taught as part of the science and engineering curriculum. Dr. Edward Castetter, for whom the Biology Building on Yale Avenue is named, came to UNM as Professor and Chairman in 1928 and for the next 5 years the Department consisted...of Dr. Castetter and 1 other faculty member! From 1933-1944 Biology had only 3 faculty members. Dr. Castetter remained Chairman for 28 years and since then there have been 7 others thrown into the breach: William Koster was Chairman for 1 year; Howard Dittmer was Acting Chairman for 1 year; Loren Potter, for whom the "new" wing (completed in 1965) is named, was Chairman for 14 years, from 1958-1972; Paul Silverman was Chairman for 1 year; Clifford Crawford was Acting Chairman for 1 year and Chairman for 4 years; James Findley was Chairman for 4 years; and Donald Duszynski has been Chairman since July, 1982.

We can find no record of when the 1st undergraduate degree was awarded in Biology, but it must have been before the 1st Master's degree, which was given in 1928, the same year that Dr. Castetter arrived. The 1st PhD wasn't awarded until 1952 and, in the 71 years since 1928, including the May 1989 graduating class, 589 graduate degrees (450 MS, 139 PhD) and well over 2000 Bachelor's degrees have been earned by students from this Department.

Today, Biology stands as one of the pillars of the University of New Mexico: 34 full-time faculty and over 50 adjunct faculty, 95 graduate students, about 250 undergraduate majors, and 19 superb technical and professional support staff. In a typical year we can expect to produce 19,000 student credit hours, teach over 450 courses, sections of courses and labs, generate \$1-3 million in federal and state research money, employ about 250 people, and spend over \$3 million dollars, only some of which ends up in the red.

This is a program in which alumni, friends and supporters, can take a great deal of pride. It is a program with national and international acclaim in some areas and a growing development of respect in others. One of the reasons that Biology's reputation is quickly gaining strength regionally, nationally, and internationally--besides having an incredibly good, young faculty and

an excellent support staff--is because of YOU, our graduates and friends. You are the foundation upon which we stand and your past, present and continued support--in many different ways--is both appreciated and an essential part of our future growth and potential for achievement.

Alum News

Carolyn Bell-Prince (BS 1982) is currently a Life Sciences Technician in the National Flow Cytometry Resource Department at Los Alamos National Laboratory. She is raising her one year old daughter and enjoys traveling, skiing and hiking.

Ann J. (Krummes) Bonnell (BS 1959) is now involved in a great deal of volunteer work at Roxborough State Park in Littleton, CO. She volunteers in the visitor's center, is a volunteer naturalist, and is involved with research in a number of bird species, plant species and population studies. Ann and her husband Jack have 2 children, John and Mary.

Martin J. Boyd (BS 1974, MD 1978) currently holds the title of Chief in the Department of Emergency Medicine at the Gallup Indian Medical Center. He enjoys skiing, scuba diving and photography.

Bradford L. Cambron (BS 1986) is a medical student at UNM expecting to graduate in 1992. Bradford toured the Soviet Union for 21 days on a goodwill tour in 1987. He is married to Sandra Jeanne Cambron who graduated from UNM in 1984. She is currently a medical technician.

Howard Campbell (BS 1937) is now retired from his position as a biologist for the New Mexico Department of Game and Fish. He was with the department for about 30 years. Since his retirement he occupies his time with reading, writing, traveling and basically just enjoys life.

Frank Ciaccio (BS 1987) is a Deputy Medical Investigator for the UNM School of Medicine.

Victoria Radoslovich Cibicki (BS 1984) is an electronics technician at Sandia National Laboratory. She also is an avid folk dancer and a mother of 2 boys.

Susan Rose Comfort (BS 1986) is a second year medical student at UNM and enjoys gardening, hiking and collecting wild flowers.

Lee Couch (BS 1987) is a graduate student in Parasitology at UNM.

Carl F. Cramer (BS 1944, MS 1947) received a Ph.D. in Physiology from the University of California at Berkeley in 1953. He is an Emeritus Professor retired from the Department of Physiology at the University of British Columbia.

James W. Cutler (BS 1967) is now the District Ranger at Theodore Roosevelt National Park, Medora, ND. He is a trustee of St. Mary's Catholic Church and twice Post Commander of the American Legion Post 144.

Burt Ensley (BS 1976, MS 1978) earned his PhD from the University of Georgia and is now a Research Director of Specialty Chemicals in Georgia. His interests are vintage cars and music, and he has 2 little girls.

Richard Forbes (MS 1961) earned his PhD from the University of Minnesota in 1964 and is now a Professor of Biology in Portland, OR. He is involved in wildlife photography and distance running.

Elizabeth Tatum Frederick (BS 1937) received her MS in 1943 and is now a retired teacher of high school biology. She taught for 20 years mostly in Truth or Consequences, NM. She paints in watercolors and has been featured in many shows. Elizabeth and her husband George celebrated their 50th wedding anniversary in June of 1987.

Thomas Gagliano (BS 1981) received a MA in Secondary Education in 1988. Thomas is currently a middle school science teacher at Cleveland Middle School in Albuquerque. He is also a frequent illustrator for "New Mexico Wildlife Magazine."

Larry J. Gordon (BS 1949, MS 1951) received an M.P.H. from the University of Michigan School of Public Health. He is retired as New Mexico Cabinet Secretary for Health and Environment and is now Health Consultant to UNM. Larry is married to Nedra Callender who received her BS in Biology here in 1949.

Michael J. Harrison (BS 1987) is a U.S. Navy Ensign and a 2nd year medical student at the Uniformed Services University of the Health Sciences School of Medicine. He enjoys skiing and fishing.

Dennis Heinemann (Ph.D. 1984) is a seabird ecologist at the Manomet Bird Observatory in Manomet, MA.

Jean Cordes Hoffman (BS 1974) currently keeps very busy as a homemaker and a full time mother to 2 girls in Abbotsford, British Columbia.

Grafton Houston (MS 1984) received a DVM from Colorado State University in 1989. He is now a fisheries Biologist for the U.S. Fish and Wildlife Service in Ft. Collins, CO.

Sean P. Houtman (BS 1986) is now a botanist for Plants of the Southwest in Santa Fe, NM.

Cheryl Imes (BS 1978) received a M.A. in experimental psychology at Bradley University in 1982. She is currently working on her dissertation to complete her PhD from Indiana University.

Stacy Kaser (BS 1985) is the analytical electron microscopy lab technician in UNM's Geology Department.

Fenton C. Kelley (BS 1951, MS 1954) earned a Ph.D. in Physiology from the University of California at Berkeley in 1967. Fenton is now retired from Boise State University after 19 years as a Professor of Zoology and currently works as an independent consultant in aquatic biology.

Dolores Kepner (BS 1966) is currently a medical technologist. She is involved with Parents Anonymous and Parents Without Partners Unity in Anniston, AL.

Grethchen Quelle Kinzie (BS 1957) is a Cytogenetic Technician at the Children's Hospital of the Kings Daughters, Norfolk, VA. She is a square dancer par excellence!

John E. Leder (BS 1965) received an MS from the University of Washington in 1973. He is now an Environmental Scientist - Planner and is a Captain in the U.S. Naval Reserve. He also coaches youth soccer.

Ralph Leisy (BS 1962) received an MS from Texas A&M University in plant pathology.

He is a pesticide applicator technician for Texas A&M.

Carol M. Márquez (BS 1983, MD 1988) is now an intern at the University of Arizona in the Department of Family and Community Medicine.

Thomas McConnell II (BS 1979) is the Chief Estimator for J.R. Hale Contracting Co., Inc. He enjoys hunting, fishing and is a hot air balloon pilot and airplane pilot.

Marilynne McKay (BS 1964) received her M.D at UNM and is now an Associate Professor of Dermatology and Gynecology at Emory University School of Medicine. She practices dermatology at the Emory Clinic and is Chief of Dermatology at Grady Memorial Hospital in Atlanta.

Leona (Rusty) Miller (BS 1970) is a biology teacher at Highland High School in Albuquerque. She and her husband raise and show Arabian horses.

W. Pat Morrison (BS 1967, MS 1969) received his PhD in 1972 at the University of Kentucky and is now an extension entomologist at Texas A&M University, Lubbock, TX. Pat and Don Wilson were 2 Biology graduates honored by UNM and the Department as Distinguished Alumni during our 1989 Commencement.

Cynthia (Stephenson) Muncey (BA 1975) is currently a medical technologist at Children's Hospital in Boston. She and her husband, Mark, enjoy cruising the New England Coast aboard their 29 ft. sailboat "Splash".

Letitia Creveling Peirce (1954) is the Executive Secretary for the New Mexico Zoological Society at the Rio Grande Zoo in Albuquerque. She is involved in the New Mexico Herpetological Society and sits on the Rio Grande Nature Center Advisory Board.

Susan Yeich Pickering (BS 1985) is the Quality Assurance Chief for Sandia National Laboratory at the WIPP site in NM and has her own zoo at home: horses, dogs, cats, peacocks, turkeys, and pheasants!

Benjamin L. Pilcher (PhD 1969) is currently a Professor of Biology at McMurry College in Abilene, TX and is also the Director of the McMurray Honors Program.

Clay Pryor (BS 1981) received an MBA in 1985 at UNM, and is currently a programmer analyst at Sandia Laboratory. He is involved in motorcycle trials competition and studies the bible.

Ray Quintana (BS 1982) received an NTS from the New Mexico School of Natural Therapeutics and is now a student at UNM studying Medical Laboratory Technology. He and his wife Anna-Lena have a 2 yr. old son, Toby.

Charles Reith (Ph.D. 1983) is an environmental scientist for Jacobs Engineering. He is leading a DOE research project on the ecological manipulation of water balance and contaminant migration of near-surface waste repositories.

John B. Roberts (BS 1949, MS 1952) is the leading ear, nose and throat specialist (ENT) in Albuquerque, according to Chairman Don Duszynski. John has operated on Don's broken nose at least twice and has cured ear problems for both of Don's sons.

Gerald Rodriguez (BS 1962) earned his MD from the University of California and has a private practice as a gynecologist in Santa Fe, NM. He is Chairman-elect of the NM section of the American College of Obstetricians and Gynecologists (ACOG).

Lyman B. Spaulding (MS 1969, PhD 1972, MD 1975) currently has a private practice of obstetrics, gynecology and infertility in California. He is the Assistant Clinical Professor of Obstetrics and Gynecology at the University of California, San Francisco. He is a member of the District IX Bureau Medical Quality Assurance and the Chief of Staff at Sacred Hospital in Hanford, CA.

Craig Steiner (BS 1977) received an MS in Geophysics at the University of Houston and is currently working as a geophysicist at AMOCO Production Co. in Texas.

N. Thomas Stephens (BS 1955) earned a Ph.D. in Environmental Engineering from the University of Florida. He is currently Professor and Head of the Chemical and Environmental Engineering Department at Florida Institute of Technology in Melbourne, FL.

Cydney Stewart (BS 1977, MS 1981, MD 1985) is the Chief Medical Resident at West Los Angeles Veterans Hospital.

Richard Storey (BS 1968) earned his Ph.D. from Oklahoma University in 1977 and is currently an Associate Professor at Colorado College in Colorado Springs, CO.

Agnes (Naranjo) Stroud-Lee (BS 1945) earned her Ph.D. in Biological Sciences at the University of Chicago, IL. She is now retired from the Life Sciences Division at Los Alamos National Laboratory. In her retirement, she spends a great deal of time golfing in Rio Communities in Belen, NM.

Michael E. Toliver (BS 1973) received a Ph.D. from the University of Illinois. In 1987 he won the Helen Cleaver Distinguished Teaching Award. On sabbatical last fall, he worked to complete a manuscript on the butterflies of New Mexico. He and his wife, Peg, also had a baby in July of 1988.

Sue Tornquist (BS 1980, MS 1987) earned her D.V.M at Colorado State University in 1985 and is now a veterinarian in Albuquerque.

Juan R. Velasquez (BS 1972) is Vice President and Manager of Environmental Affairs for the United Nuclear Corp in Albuquerque. He is also on the Board of Directors for the New Mexico Council on Crime and Delinquency.

David J. Velasquez (MS 1977) received a PhD from the University of Rochester in 1981 and is now a research specialist in the Biosciences Laboratory for the 3M Company, St. Paul, MN. He is married and is involved in 3M's Science Encouragement Program designed to foster interest in science in grade school students.

Richard D. Volk (BS 1977) received an MPA in Development Management at the Monterey Institute of International Studies. He is an environmental planner for the American Samoa Coastal Management Program, Pago Pago, American Samoa. His interests include South Pacific folklore and natural history.

Warren L. Wagner (MS 1977) received his PhD from Washington University in 1981. He is now an Associate Curator (Pacific Botanist) for the Smithsonian Institute in Washington DC. He and 2 coauthors have

written a book Manual of the Flowering Plants of Hawaii. He enjoys record collecting, traveling, camping and photography.

Charles D. Wise (PhD 1962) is Professor of Biology at Ball State University. Among some of his activities, he is involved in research, public service and environmental activism. He enjoys travel, genealogy and grand-parenting.

Ted Yaeger (BS 1973) received his MD in 1981 and is a staff physician at Halifax Medical Center in Daytona Beach, FL. He enjoys sailing, surfing and sunning.

Gary Zahm (BS 1966) is now the Refuge Manager at the San Luis National Wildlife Refuge of the U.S. Fish & Wildlife Service. He is also an internationally known wildlife /nature photo journalist.

Robert Zimmerman (BS 1941) received a D.D.S. at St. Louis University and is now a retired dentist. He was a Captain in the U.S. Air Corps (Aerial Photography) in World War II and a Captain in the Dental Corps of the Air Force in the Korean Conflict.

Other Friends and Supporters of the Society and the Department:

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Dr. John O. Corliss
Dow Chemical USA
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Mollie Hayes
Jan Holland Hickey
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Drs. Albert & Kathryn Vogel
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The Biological Society of New Mexico is a tax-exempt organization under the New Mexico Nonprofit Corporation Act and the United States Internal Revenue Code. The object of the Society is to establish and maintain endowments, trusts, foundations, and other funds, all for the purposes of

encouraging, fostering, and pursuing excellence in education in the Department of Biology at the University of New Mexico.

The Society is authorized to receive grants, stipends, honoraria, property, or any other interests for educational purposes. Tax-exempt gifts may be given with designation to be used for specific purposes, e.g., student fellowships, research support, or whatever, as long as the purpose fits the objectives of pursuing excellence in biological education and research at UNM.

Your gift can be earmarked for specific purposes! Donations and annual membership fees, unless otherwise specified, are placed in our Unrestricted Gift Account. These funds are used primarily to support both undergraduate and graduate student recruitment, research, travel to meetings to present papers, and awards for teaching excellence. In addition, we have 3 other accounts that may have special interest to you.

L.D. Potter Endowed Chair in Plant Ecology.

For the last 4 years we have been building an endowment from private donations and other sources to create the 1st Endowed Chair in Biology. When Loren Potter retired in June, 1985, it seemed appropriate to honor his teaching and research efforts in field plant ecology not only because of his personal contributions to the discipline and to our Department over the years, but because we recognize the importance of plant ecological studies as they pertain to our natural resources. Thus, the idea of an Endowed Chair in his honor was conceived and a goal of generating funds to support that chair was set. To date we have about \$110,000 in our endowment and we hope, at least, to double that amount by the time the 1st Potter Chair is awarded on July 1st, 1991.

Melinda Bealmear Scholarship.

Melinda Bealmear was a dedicated and beloved staff member in our main office, who died in a tragic car accident in October 1986. Our graduate students, faculty and staff, along with help from her parents Dorothy and Dale, established a scholarship fund in her memory. The fund now has about \$2000. We would like to accrue enough principal, say \$50,000, so that the annual interest could be used to support the program of a needy graduate student in Biology.

Museum of Southwestern Biology-Mammals.

The purpose of this Museum account is to support any and all aspects of mammalogical and field research conducted by faculty and graduate students in Biology at UNM.

Membership

Any person contributing \$15 or more annually becomes a member of the Society and will receive the Annual Newsletter.

All memberships and contributions are tax exempt.

Please mail memberships and contributions by check payable to "The Biological Society of New Mexico" to:

Secretary-Treasurer,
Biological Society of New Mexico
Biology Department
The University of New Mexico,
Albuquerque, New Mexico 87131

DETACH AND MAIL -- If you haven't responded before, we'd really like to hear from you and learn about what you're doing. Thanks for your continued support and interest!

Name _____ UNM Degree(s) _____ Year(s) _____

Other Degrees _____

Complete Current Mailing Address _____

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Current Occupation _____

Activities and interests:

Enclosed check \$ _____