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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

San Diego Nat. History Museum
Selected Memoirs on Calce

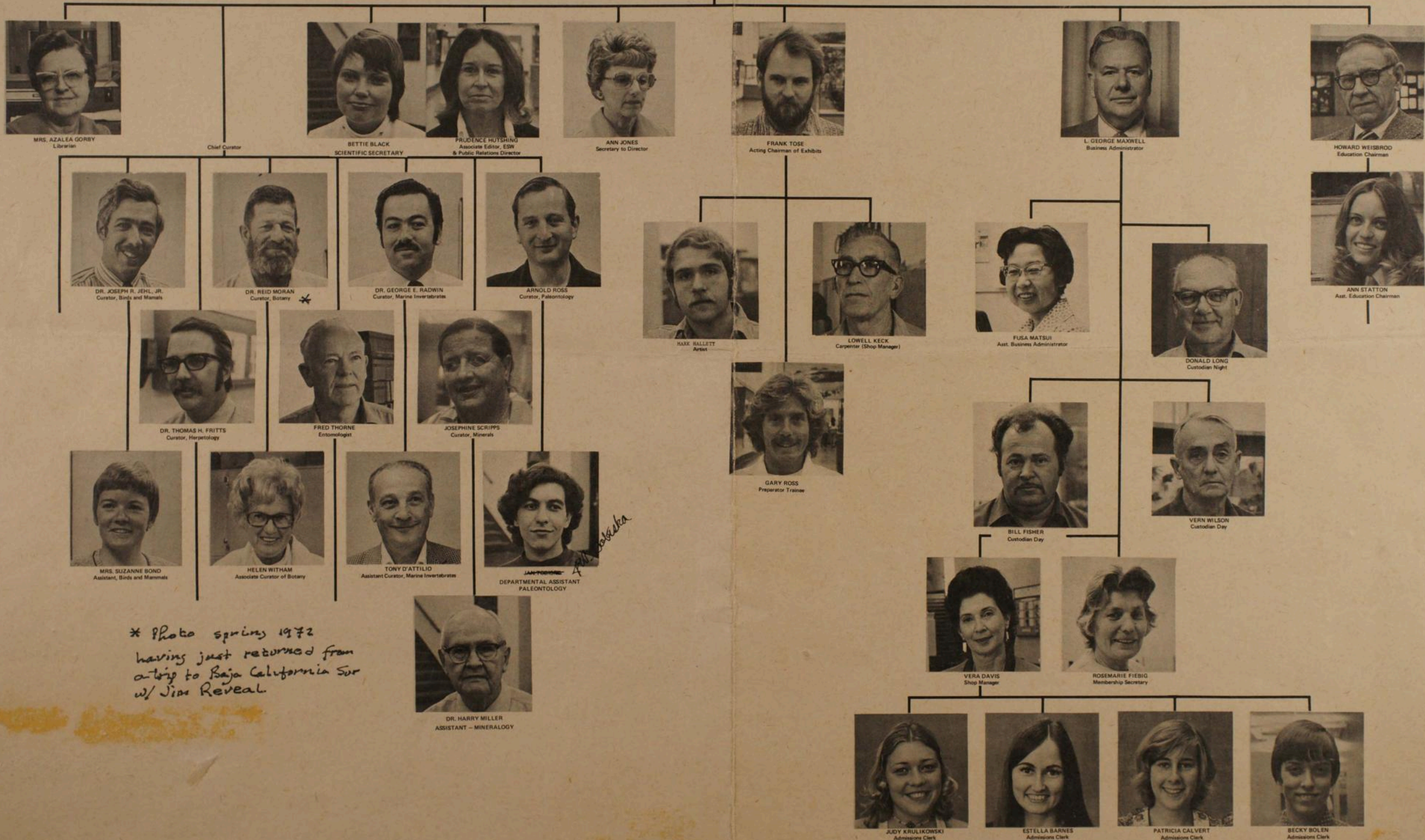
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San Diego
NATURAL HISTORY MUSEUM STAFF CHART

Curca 1975



RADM. JOHN B. DAVIL, JR.
Director



* Photo spring 1972
having just returned from
a trip to Baja California Sur
w/ Jim Reveal

AT THE MUSEUM

by Steven M. Hutchison

July 1977
 "Environment & Southwestern"
 DNHM

At every Museum there is much more going on than meets the casual visitor's eye, and our Museum is no exception. There are several scientific departments pursuing research in natural history, an extensive research library, departments devoted to community affairs, educational activities, and exhibits, and a competent administration overseeing all the various operations of the Museum.

However, most visitors and many members do not see what goes on behind the exhibits. So, in the next few pages I will take you on a brief tour "Behind the Scenes" to meet the people who make the Museum work.

BOTANY—Nearly all the scientific departments are on the third floor of the Museum. After ascending the eastern staircase, one of the first departments to come into view is the Botany Department headed by Dr. Reid Moran. Perhaps the most conspicuous part of the department is the extensive herbarium (plant collection)



Reid Moran

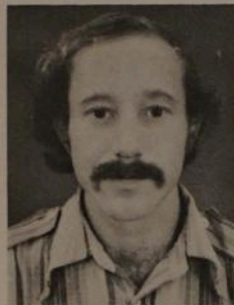
with about 97,000 specimens of plants either native or introduced to California, (particularly San Diego County) and Baja California. Housed in rows of metal cabinets and fumigated to guard against damage from insects, this collection dates back to the very beginnings of the San Diego Society of Natural History in the late 1880s. It is an important scientific tool used for the identification of plants, for study of plant classification, and as a general library of information about plants. The collection is dynamic, with new

specimens constantly added. Especially, Dr. Moran is adding specimens from northwestern Baja California in conjunction with his efforts to compile a flora (a listing and description of the plants) for that region.

Dr. Moran is also working on Mexican stonecrops (*Crassulaceae*). He receives competent aid from part-time assistants Margery L. Stinson and Fred Sproul who help to maintain



Jack Reveal



Fred Sproul

the collection. Museum Research Associate Jack L. Reveal works at a variety of tasks from collection and identification of plants to assembling specimens into teaching aids for the Exhibit Library. There is also a loyal group of volunteers that helps to maintain the catalogues, prepare specimens and care for the living plant collection on the roof. Among the volunteers are Mrs. Helen Norton, Mrs. Gay Macklin, Miss Gail Culver and Mrs. Isabel Oberste-Lehn.

PALEONTOLOGY—Adjacent to the herbarium in the easternmost part of the third floor are the low metal cases housing the Museum's paleontological collection. The collection contains about one half-million specimens representing all of the phyla of fossil animals and plants.

from simple microorganisms to large dinosaurs. In charge of the department is Mr. Arnold Ross. Like most other paleontologists, Arnold Ross is occupied much of the time with salvaging material from sites scheduled for development or from sites heavily worked by amateur collectors. Many of the best sites for collection in San Diego County have



Arnold Ross

already been destroyed or covered by bulldozers or house construction. Between salvage operations in San Diego County, Mr. Ross and his assistant, Jan Tobiska, managed several trips to other areas. Arizona, Texas,



Jan Tobiska

Mexico, as well as several localities within California were among the areas visited this past year. More of the same effort is planned for the coming year, with urban salvage in local areas receiving most attention.

Mr. Ross is also in charge of publishing the *Transactions*, the Museum's scientific journal. During fiscal 1977 nine numbers of the journal were published on topics ranging from fossils to recent mammals.

OFFICE OF MARINE MAMMAL INFORMATION—Next door to the fossil collections, along the eastern wall, is the Office of Marine Mammal

Information which is directed by Dr. Raymond M. Gilmore. This office was recently created to formalize the service the Museum has been providing to the general public through Dr. Gilmore since 1969. This service



Dr. Raymond Gilmore

has consisted of answering questions and providing information on the marine mammals found throughout the world (as well as the industries which are directly related to them). This service is of particular value during the annual southern migration of the California gray whale. Active in all aspects of marine mammal studies, including conservation, Dr. Gilmore has been a Research Associate of the museum for 23 years. He continues his research on the gray whale, begun in 1952, and also stays abreast of other marine mammals when possible.

If you have a question about a marine mammal, you may call this office at 232-9272, or BE-AWARE!

ECOLOGY OFFICE—Perched over the Marine Mammal Information Office is the office of Dr. Crawford Jackson, Managing Editor of *Ecology*



Dr. Crawford Jackson

and *Ecological Monographs*, and Editor-in-Chief of *Herpetologica*. Dr. Jackson along with Mrs. Duering, his Administrative Secretary, and Dr. Ben Banta, Technical Editor of *Herpetologica*, is the central figure involved in the publication of these



Sherri Duering

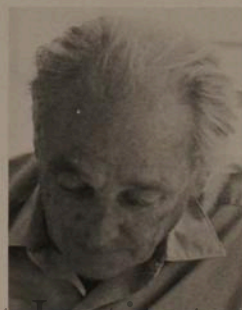
three respected technical journals. Dr. Jackson's presence here has done much toward enhancing the prestige and general awareness of the Museum, since providing him with office space enables the Museum's name to appear on the masthead of each of these internationally known and distributed journals. Dr. Jackson is a Museum Research Associate in the Paleontology Department.

MARINE INVERTEBRATES—Past the herbarium one enters a long corridor leading to the western end of the building. About halfway along the corridor is the Marine Invertebrates Department headed by Dr. George Radwin. Dr. Radwin is charged with caring for and adding to the



Dr. George Radwin

Museum's extensive collection of marine invertebrates, freshwater and terrestrial mollusks. The donation of the Joshua L. Baily, Jr., collection of land and freshwater shells and their incorporation into the collection this past year has significantly improved the Museum's collection which was previously considered to be one of the best western land snail collec-



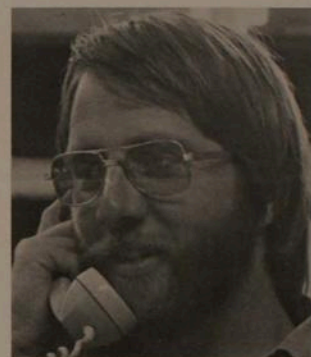
Anthony D'Attilio

tions in the nation.

Aside from the collection, Dr. Radwin has undertaken research on the New World Collumbellidae and, in cooperation with his assistant, Mr. Anthony d'Attilio, is working up descriptions for several new species of muricid gastropods (snails).

To help with cataloguing the large collection and preparation of the specimens, Dr. Radwin has a devoted group of volunteers including Col. G.E. Hanselman, Mrs. June King, Mrs. Barbara Myers, Mr. David K. Mulliner, Mr. Gerald Crow and Mrs. Barbara Good.

HERPETOLOGY—Continuing down the long corridor to nearly the end, another shorter corridor converges from the north wing. The first office on the left along this short passage belongs to the Department of Herpetology (reptiles and amphib-



Dr. Thomas H. Fritts

ians). Dr. Thomas H. Fritts curates the 60,000 specimens in the Museum's collection. Like other scientific collections in the Museum, those in this department are mostly from southern California and Baja California. Aside from maintaining the collections, during the past year Dr. Fritts and his assistants, Mike McCoid, Eric Lichtwardt and Doug Ruth have been involved in ambitious research efforts in a variety of areas. Dr. Fritts has spent considerable time investigating the large Galapagos Tortoises, both in their natural habitats on the Galapagos Islands and in zoos. Part of this effort has been in conjunction with the Charles Darwin Research Foundation headquartered in Brussels. One purpose of the research is to develop information useful in constructing conservation programs for these large reptiles in the Galapagos Islands. What has been learned about giant tortoises in

the Galapagos may prove valuable to conservation efforts and investigations of North American tortoises. Dr. Fritts has reported on his studies at several meetings including those of the Desert Tortoise Council, local turtle and tortoise clubs and other organizations.

The departmental assistants are also involved in several investigations. Doug Ruth has been collecting data on the numbers and kinds of snakes in San Diego County for a statistical study and will eventually do



Doug Ruth



Eric Lichtwardt

a similar study on county lizards. Eric Lichtwardt is currently investigating the geographical variations of certain microteiid lizards of South America. Mike McCoid, who recently left the department, has been studying growth, reproduction and feeding habits of the now famous clawed frog. Howard Snell left the department in April to head a conservation project for Galapagos land iguanas at the Charles Darwin Research Station. Susan Palko and Chuck Crumly also conducted graduate research work in the department during the past year on aggressive behavior in Galapagos tortoises and the evolutionary osteology of tortoises respectively. Plans for the future include continued work in Baja California on lizards and rattlesnakes, additional collecting of reptiles and amphibians in desert areas and some physiological investigations of marsupial frogs.

ENTOMOLOGY—Continuing down the short corridor a few steps past Herpetology is Entomology. Entomologist David K. Faulkner is in charge of the approximately 450,000 specimens in the collection. Assisted by Marie Cox, Faulkner undertook a large "housekeeping" project this



Marie Cox and David K. Faulkner

past year involving the integration of stored material (some for as long as 50 years) into the collection and a major reorganization of the existing collection. Much of the effort put into this project was volunteered by a durable group of workers including George Stephens, John Brown, Steve McElfresh, Ruth Kappel, Ann Sixtus, Greg Forbes, Teddy Howatt, Jim Smith and Gladys Benson.

Significant improvement has been made in the San Diego County portion of the collection with recent additions extending previous distributions and supplying new records of some species. A recent August trip by Faulkner and Brown to south central Arizona netted about 1,500 specimens of insects with significant collections of flies, grasshoppers, butterflies and moths, and nerve-winged insects.

Besides specimens from recent collecting trips, an important addition was made as a result of the donation of the Richard A. Mackie collection of Lepidoptera which numbered about 2,500 specimens. Another notable addition to the Department was the Charles Harbison library of separates and old volumes.

ORNITHOLOGY AND MAMMALOLOGY—At the end of the short corridor through a pair of windowed doors is the Birds and Mammals Department. Housed in a large room with high ceilings are the rows of large metal cabinets containing the 35,000 birds and 20,000 mammals in the Museum's collection along with 2,000 bird skeletons. Newly appointed Dr. Amedeo M. Rea will head this department. Dr. Rea received his Ph.D. from the University of Arizona, with a dissertation on historic changes in the bird life of Gila

Bend Indian Reservation. Aside from being a highly competent ornithologist, Dr. Rea has an avid interest in the ethnobiology of the Sonoran



Dr. Amadeo Rea (left) and Suzanne Bond

desert and for the past six years has been studying cathartid vultures and their population declines. Dr. Rea has two talented assistants in Suzanne Bond and Susan Teal who spend much time preparing skins and



Susan Teal

skeletons and maintaining the collections. To help with this job, the department receives the volunteer assistance of Lois Morrissey, Carol Dunning, Dawn Smith, Jennifer Ball, Enid and Don Chorzempa. This will help save wear and tear on the specimens and still allow persons to obtain information on them.

Among the additions to the collections are the sizeable exchange made with the University of California Irvine through Dr. George Hunt for more than 100 Alaskan specimens and a donation of about 200 specimens of eastern birds from the Onandaga Audubon Society (New York).

CHIEF CURATOR—Near the Birds and Mammals Department is the office of the Museum's newest full-time employee, Dr. William C. Cummings, Chief Curator. The Chief Curator's principal job is overseeing



Dr. William C. Cummings

the Museum's seven scientific departments and the research library. Part of the job entails coordinating the activities of the various scientific departments with each other, with other Museum departments, and with other scientific institutions. Toward that end, Dr. Cummings will be working across a broad spectrum of natural history, helping to keep open the communications between departments and with other scientific institutions. Another part of the job is to foster new ideas for research projects and to help obtain research grants and other means of financial support. On top of all this, Cummings will also be continuing his own research in the field of marine bioacoustics. We at the Museum wish Dr. Cummings success in handling the job ahead.

SCIENTIFIC LIBRARY—Returning to the main corridor, the scientific library is just a few yards to the west and occupies a large room that runs along the south side of the building. As the name suggests, it is a scientific research library. While it is



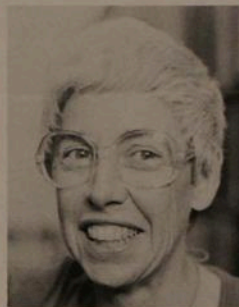
Azalea Gorby

available to the public during the regular Museum hours Monday through Friday, the library materials do not circulate. Librarian, Azalea Gorby, is in charge of the approximately 100,000 volumes, some of which are distributed throughout the

scientific departments where they are most used. The Museum library functions in the same way that other modern research libraries do, providing reference services, acquiring new volumes, negotiating publication exchanges with other institutions and maintaining the current collections.

One of the outstanding features of our library is the Klauber Library which is devoted to herpetology. Quartered in a small adjoining room and numbering more than 1,500 volumes, the Klauber Library is perhaps one of the best collections of literature on reptiles and amphibians to be found. One of the current projects being handled by volunteer Billie Meeder is cataloguing this particular collection to conform to the Library of Congress standards.

Another important feature of the library collection is the large number of rare old volumes such as the Audubon Elephant Portfolios, Hough's American Woods and Darwin first editions.



Carol Barsi

Carol Barsi assists Mrs. Gorby with the task of keeping the library functioning smoothly and they receive additional help from volunteer, Jo James.

SCIENTIFIC SECRETARY—At the end of the corridor just inside the library is the office of the Scientific



Ann Jones

Secretary, Ann Jones. It is her responsibility to attend to all of the secretarial needs of the scientific

staff, and as you can imagine, the scientific departments produce quite a volume of manuscripts, correspondence, and telephone communications. Aside from these regular duties, Mrs. Jones is also called on to make arrangements for visiting scientists as well as generally keeping track of our traveling scientists and their assistants.

COMMUNITY AFFAIRS—Leaving the third floor by the western staircase, it is only one flight down to the mezzanine where once was housed the arthropod exhibits and now is housed the Community Affairs Department under the direction of Martha Shumaker. This department handles



Martha Shumaker

all the business of membership, publicity and other efforts concerning the community. The Museum's membership is important and Rosemarie Fiebig, the membership secretary (who actually has a desk in the business office), works to satisfy the needs of members with enthusiasm. Besides caring for present members, there is also a need to increase the membership and consequently the support base that members represent. This job is being tackled by Mrs. Shumaker and the membership committee and may result in a major membership drive in the near future.

Prudence Hutshing handles another important aspect of this department: publicity. Public awareness is a major obstacle for any institution. The amount of media attention an organization receives can be crucial when trying to develop community participation and awareness. The Museum was fortunate to have KGTV film a public service announcement for both Museum attendance and the popular whale watching tours during the past

year. Aside from public service announcements on radio and television and newspaper coverage of Museum activities, the department has been concentrating on feature



Prudence Hutshing



Rosemarie Fiebig

material such as the annual Day in the Wildwood and stories generated by the scientific staff that have popular interest.

This department is also involved in other projects that help to promote the Museum, such as the sponsorship of the annual meeting of the Association of Systematics Collections this coming spring, a Christmas tree sale at the Museum this winter and development of a series of lectures in cooperation with the Leaky Foundation, UCSD, SDSU, the San Diego Zoo, and the Museum of Man.

GENERAL ADMINISTRATION — At the bottom of the stairs on the second floor are the general administration offices. Here is where much of the important, although frequently mundane, work of the Museum is carried out. The offices of the Director, John B. Davis, Jr., his secretary, Gloria Zaldivar, Director of Development, Norman J. Nachreiner, Business Administrator, George Maxwell, and membership secretary, Rosemarie Fiebig, are located here.

All efforts of the Museum are coor-



George Maxwell

minated under the guidance of the Director, who, under the Board of Trustees, is responsible for the proper functioning of the Museum.

Mr. Nachreiner occupies a new position established to obtain funding for Museum operations and specific projects. Funds are sought from a large variety of sources such as the National Endowment for the Arts, National Endowment for the Humanities, National Science Foundation, as well as state organizations and private foundations.

The Business Administrator and his two assistants, Fusaka Matsui and Woody Phelps, provide services to all



Gloria Zaldivar



Fusako Matsui



Woody Phelps



Vera Davis

departments. Typical services include purchasing, payroll, accounting, budget preparation, ad-

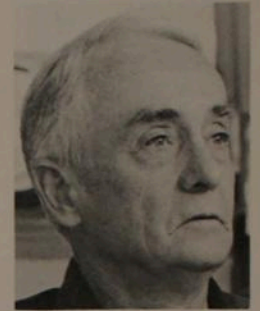


Bill Fisher (left) and Bob Knott

ministration of medical and retirement programs, security, and financial aspects of grant proposals. A

formidable task no matter how it is evaluated.

Mr. Maxwell also supervises the building maintenance staff consisting



Vern Wilson

of Bill Fisher, building superintendent, Bob Knott and Vern Wilson and the newly remodeled Gift Shop managed by Vera Davis.

ACTIVITIES—To the left at the bottom of the stairway is the Educational Activities Department directed by Dr. Janice K. Victoria. This is perhaps the



Dr. Janice K. Victoria

most widely known department in the Museum since it is from this office that most of the seminars, nature walks, field excursions and classes originate. Most members who have registered for one of these activities during the past nine months are probably familiar with the charming British accent of Isobel Berry, a departmental assistant in charge of reservations for activities and volunteer tours and an array of other important jobs in the department. But there is more to the department than that which appears on the activities page of the monthly *Calendar*. The Exhibit Library, managed by Judy Guilmette, contains over 1,200 specimens of mounted birds, reptiles, mammals, fossils, insects, and marine life which are available to teachers, scout leaders and other adults (library cards cost \$4 per year). The free weekend film program in the Museum auditorium is capably operated by Mary Laiuppa as a part of the Educational Activities program.



Steve Hutchison



Isobel Berry



Judy Guilmette



Helen Chamlee

The editorial office of *Environment Southwest* and the *Calendar* is also in this department and occupies the same space as that of the *Museum Naturalist*, both of which I occupy. The amount of work in this department is tremendous and would be very difficult to cope with were it not for the faithful volunteers. The volunteers do jobs from typing and stapling to organizing educational materials. Among the regular volunteers are Mrs. Betsy Sanders, Mrs. Mabel Tuckett, Miss Julie Grimes, Mrs. Diana Herron, Mrs. Elsie Dorsey, and Miss Candi Larson.

MINERALOGY—At the far eastern end of the first floor adjacent to the Mineral displays is the Mineralogy Laboratory. Miss Josephine Scripps has charge of the Museum's exten-



Josephine Scripps

sive collection of valuable world-wide minerals and gems, many of which are on display. Along with assistant Jerry Johnson and a raft of dedicated volunteers, Miss Scripps has been collecting and processing thousands of pounds of material both for the col-



Jerry Johnson

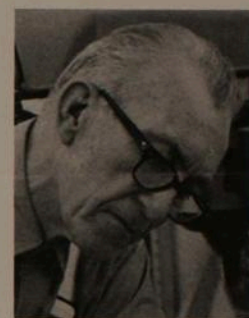
lection and for the popular Sunday rock sales. During the past year there have been several significant acquisitions, each containing a variety of minerals including tourmaline, as well as petrified wood and geodes. Among the regular volunteers are Leo and Marion Horensky, H.C. Coats, Gary White, Rick Patton, Carl Thompson, Nancy Ten-Eyck, John Peterson, Hale Newcombe, Liz Mahon, and Dr. Monell.

EXHIBITS—Behind the main Museum building is a smaller one occupied by the Exhibits Department, the last department on the tour. Directed by Frank Tose, this depart-



Frank Tose (left) and Jim Melli

ment executes all of the exhibits and graphics on display in the Museum. Many of their recent projects are discussed in the article by Ryan Leverkus in this issue. However, this department does more than design and build exhibits. With the various



Lowell Keck

creative talents of Mr. Tose and his assistants, Jim Melli, Susan Muto and carpenter Lowell Keck, the department performs a number of tasks essential to the Museum, including office construction, plumbing, construction of Plexiglas cases for the Exhibit Library, and providing artwork like that which appears on the cover of this issue of *ESW*. In many of these projects the department staff is assisted by Mr. Charles Dorsey and Mrs. JoAnne Moore, both volunteers. □