

**THE FIELD MUSEUM  
1998 ANNUAL REPORT TO THE  
BOARD OF TRUSTEES**

**ACADEMIC AFFAIRS**

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## **ACADEMIC AFFAIRS - 1998 ANNUAL REPORT**

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The 1998 Annual Report records another year of extraordinary effort and accomplishment by staff in Academic Affairs. The last year has seen a strong record of published research, excellent success in securing program support from federal and other sources, outstanding contributions to public learning, and substantial progress in improving the care and use of The Field Museum collections. Especially notable in 1998 were a major increase in use of The Field Museum web site, a series of outstanding symposia and conferences, several key research publications, the continued success of the Chicago Wilderness initiative, the opening of the McDonalds Fossil Preparation Laboratory, and the active participation of Academic Affairs staff in the development of the **Underground Adventure** exhibit. An overview of activities in Academic Affairs during 1998 follows below.

### **Faculty Development**

After an extended international search, Professor **Gary Feinman**, from the University of Wisconsin at Madison, has accepted the position of Chair and Curator in the Department of Anthropology. One of the country's leading archaeologists, Feinman will be joining The Field Museum in September, 1999. He has conducted research in the southwestern United States, China, and the Oaxaca Valley of Mexico. His primary interest is in understanding patterns of societal growth, particularly the rise and collapse of state societies. Among his numerous publications are over 10 books, including *Images of the Past, Pre-Columbian World Systems* and *Ancient Mesoamerica: A Comparison of Change in Three Regions*. Feinman serves as editor of *Latin American Antiquity* and the *Journal of Archaeological Research*.

In April of 1998 **J. William O. Ballard** was promoted to Associate Curator of Insects and named as Pritzker Curator of Biosystematics. Ballard, who holds an M.Sc. degree from the Imperial College at Silwood Park, Ascot, U. K. and a Ph.D. from the University of Queensland came to The Field Museum in 1995. Since his appointment Ballard has made substantial contributions to the field of molecular biology and entomology (focusing on co-evolutionary processes within and among species), and has integrated innovative cross-disciplinary, educational, and collection management applications into his research program. Ballard has also participated in several successful National Science Foundation projects and received a prestigious Faculty Early Career Development award from NSF in 1997.

Among the notable additions to the staff in 1998 were the new personnel dedicated to the study and preparation of "Sue," The Museum's new *T. rex*. The primary responsibility for research on the specimen falls to **Christopher Brochu**, a recent Ph.D. from the University of Texas at Austin who joined the Geology Department in early February for a two-year appointment as Research Scientist. Brochu's dissertation focused on the evolutionary relationships among living and extinct crocodiles, and included extensive anatomical and molecular analyses. His work on "Sue" will involve the morphological description of the skull and skeleton, including interpretation of Computed Tomographic (CT) data. Six new preparators for the *T. rex* skeleton were also appointed in 1998, including three stationed at The Field Museum dinosaur preparation laboratory at Disney's Animal Kingdom in Orlando, Florida.

**Peter R. Crane**, Vice President of Academic Affairs and Director, achieved one of the highest honors in the scientific world in 1998 when he was named a Fellow of The Royal Society. Founded in London in 1660, The Royal Society promotes the natural and applied sciences and recognizes excellence in science through annual elections to its Fellowship. It is the U.K. equivalent to the U.S. National Academy of Sciences. Currently there are 1,150 Fellows, drawn from the full breadth of modern science, from physics to medicine, and from geology to computer science and mathematics; past members include Isaac Newton and Charles Darwin. Crane is the fifth Field Museum scientist to be elected to a national academy in The Museum's history. He was elected to the Society in May and inducted later in the year.

### **Research**

The quantity and quality of research publications generated by Field Museum staff in 1998 was impressive by any standard. April saw the publication of a major new book by **Lance Grande** (Geology) and **William E. Bemis** (Research Associate, Geology) *A Comprehensive Phylogenetic Study of Amiid*

*Fishes (Amiidae) Based on Comparative Skeletal Anatomy: An Empirical Search for Interconnected Patterns of Natural History*, from the Society of Vertebrate Paleontology. Over seven years in the making, the book provides a comprehensive, in-depth study of fossil and living halecomorph fishes, focusing on the skeletal system of the Amiidae (bowfins, or "freshwater dogfish"). A review in the August 21 issue of *Science*, hails the work as "a masterpiece," and "a model of what should be done to carry comparative biology to the level of technical and methodological perfection that will allow the discipline to proudly enter the 21<sup>st</sup> century."

Adjunct Curator of Anthropology **Robert Welsch** published an important work with the University of Hawaii Press, *An American Anthropologist in Melanesia: A.B. Lewis and the Joseph N. Field South Pacific Expedition 1909 - 1913*. The two-volume work brings together the field diaries of Field Museum Anthropologist A.B. Lewis, with commentary, annotations, collection illustrations and archival photographs. The book documents the arduous four-year expedition during which Lewis assembled The Museum's remarkable collection of Melanesian cultural objects, and provides a rich illustration of anthropology's "expedition period." Welsch has been collaborating with Anthropology Curator **John Edward Terrell** on research in New Guinea since 1987, and is currently Visiting Professor of Anthropology at Dartmouth College.

Curator Emeritus **James VanStone** (Anthropology) published *Mesquakie (Fox) Material Culture: The William Jones and Frederick Starr Collections*, joining a long list of his previous *Fieldiana* publications. The book is the most comprehensive study of Mesquakie material culture to date and describes material collected among the Mesquakie people in Tama, Iowa. It is also significant noting that the November 1998 issue of *Arctic Anthropology* magazine is dedicated to a celebration of VanStone's research. Also published in 1998 was a new book by Associate Curator **Lawrence Heaney** (Zoology) and Research Associate **Jacinto Regalado** (Botany) entitled *Vanishing Treasures of the Philippine Rainforest*. Published by The Field Museum in conjunction with two 1998 exhibits, **Voyage of a Nation: The Philippines** and **Vanishing Treasures of the Philippine Rainforest**, the book discusses the unique flora and fauna of the islands, and ongoing efforts in conservation. The volume features full-color photographs and illustrations of plants, birds, mammals and their rainforest habitat. David Quammen, author of *Song of the Dodo*, called the work "a beguiling, wise, and very valuable book."

A further notable publication in 1998 was the final report of a 1926 Field Museum expedition. AltaMira Press, in conjunction with The Field Museum Press, published *The Archaeology and Pottery of Nazca, Peru* by **Alfred Kroeber** and **Donald Collier**, edited by Patrick Carmichael. Kroeber, one of the giants of American archaeology, was a Field Museum Research Associate and professor at the University of California-Berkeley (1901-1941). He conducted the Marshall Field Archaeological Expeditions to Peru for The Field Museum in 1925 and 1926. Kroeber was well into the preparation of his report on the second expedition, in collaboration with Curator of South American Archaeology Donald Collier, at the time of his death in 1960. In 1986 Carmichael took up the job of assembling the earlier drafts and completing the editing of the work for publication. The result is the only complete analysis and seriation of the beautiful painted pottery of Nasca. The material covered in the study constitutes the largest documented collection of Nasca mortuary goods in existence, much of which resides here at The Field Museum.

Field Associate **Merel J. Cox** (Zoology) and co-authors published *A Photographic Guide to Snakes and Other Reptiles of Peninsular Malaysia, Singapore and Thailand*, a 144-page field guide that includes numerous color illustrations and natural history information on more than 100 species of reptiles. Cox has worked with Zoology Curator **Harold Voris** on aquatic snakes in southern Thailand since 1995.

In addition to these book-length works, Field Museum researchers published more than 140 articles in professional journals, from *American Journal of Archaeology* to *Zoological Journal of the Linnean Society*, as well as numerous popular articles and reviews. Among the many notable examples of scholarly publications, the February 5 issue of *Nature* featured correspondence by Anthropology Curators **John Edward Terrell** and **Chapurukha Kusimba** and colleagues challenging an earlier article in the journal by noted author Jared M. Diamond concerning the interconnections between language and human diversity. Diamond's reply is featured in the same issue. Associate Curator **Scott Lidgard**

(Geology) co-authored a paper in the August 7 *Science*, which argued that taxon counts may not be an accurate indicator of the abundance of different groups of organisms and thus have limitations as guides to the ecology of ancient communities.

During 1998 Field Museum scientists also reached out to the public in several popular publications. Geology Curator **Lance Grande** discusses his work in Wyoming's Green River Formation in the July-August 1998 issue of *Natural History Magazine*. Grande's contribution to the magazine's "Field Guide" column describes one of the richest concentrations of fossilized flora and fauna in the world. The article also provides some flavor of the field work experience. Curator **John Edward Terrell** (Anthropology) was one of five of the world's leading archaeologists invited by *Archaeology* magazine to contribute celebratory articles to its 50<sup>th</sup> anniversary issue. His article, "The Prehistoric Pacific," appeared in the October issue of the popular magazine (circulation 200,000).

The arguments and conclusions represented by this wealth of articles and books are some of the more important products of research at The Field Museum. This work is based on data gathered during fieldwork around the world and from studies in our collections and laboratories. Another important measure of research accomplishment is the number of grants awarded to The Field Museum's scientific staff. 1998 was another very successful year with 31 awards received totaling over \$4 million. Especially notable was a grant of \$510,000 for advanced instrumentation from the National Science Foundation and National Aeronautics and Space Administration to Assistant Curator of Meteoritics **Meenakshi Wadhwa** (Geology) for establishing a geochronology facility at the Field Museum. This laboratory will help place The Field Museum in the forefront of research on "astromaterials," which include not only meteorites but also materials anticipated to be returned from missions to other planets, asteroids and comets over the next decade. It will also establish The Field Museum as the only museum in the world with facilities for the three major kinds of geologic "age-dating" (isotopic, paleomagnetic and fossil biostratigraphy).

Other notable awards included \$740,000 to Adjunct Curator **Petra Sierwald** (Zoology/Insects) from the National Science Foundation for research, training, and computerization on the study of diplopods (millipedes). Associate Curator **Mark W. Westneat** (Zoology/Fishes) was awarded \$373,030 from the Office of Naval Research in support of his research on "Aquatic Propulsion and Maneuverability: Mechanics and Neural Control of Fin Locomotion in Fishes." This major grant is the first to be received by The Field Museum from this agency. MacArthur Curator of Zoology **Bruce Patterson** (Mammals) received a National Science Foundation grant of \$238,993 for his study of "Mammals, Birds, and their Parasites Along an Elevational Gradient in Southeastern Peru," and Assistant Curator of Botany **Kathleen Pryer** and colleagues received a \$188,845 National Science Foundation award for the acquisition of a high-capacity server cluster for phylogenetic analysis of DNA sequence data.

During 1998 we were also pleased to name our molecular biology laboratory the Pritzker Laboratory for Molecular Systematics and Evolution in recognition of generous support from the Pritzker Foundation. In 1998 the Pritzker Laboratory was the site of over 35 projects devoted to understanding the origins and evolution of biological diversity. Research included projects on the origins of symbiosis, the evolution of life history traits, rates of evolutionary change, biogeography, conservation, sexual selection, speciation, and natural selection at the molecular level.

### Collections

In 1998 major strides were made in both the care and use of the Field Museum collections. In Geology, the physical relocation of the fossil mammals and fossil plants to their new homes in a modern, compactorized storage facility was nearly complete by year end. An NSF collection improvement grant of \$63,262 for upgrading of the invertebrate fossils collections was also awarded to Geology in 1998. With support from the Mellon Foundation, Botany made substantial progress with the development of the Rapid Reference Herbarium. In Anthropology, the NEH-funded collection improvement project, which is upgrading the facilities in Central Anthropology Storage, also made good progress. Highlights include new textile storage facilities, relocation of all Asian material into Central Storage,

and the design of new customized cabinetry. Another Anthropology collections team is re-housing South American materials de-installed from the hall now occupied by the new Museum store.

In addition, during 1998 The Museum initiated planning for the construction of new collection facilities beneath the terraces on the northeast and southeast corners of the building. The immediate focus for these new facilities will be the very overcrowded Anthropology and Zoology Collections. A major factor driving this plan is the desire to vacate potential exhibit halls on the second and ground floors that are currently occupied by collections. Anthropology collections would be housed in the first phase, since the relocation of those collections is already underway with substantial funding from the National Endowment for the Humanities. Zoology, whose alcohol collections are also an important part of the motivation for constructing new collection facilities, will also be part of the first phase of the terrace collection facility project.

The Paul S. Martin Collection Project in Anthropology also made excellent progress in 1998, under the supervision of Project Director **Stephen Nash**. Paul Martin was a major figure in American archaeology who spent 43 years at The Field Museum of Natural History, directing excavations at 69 prehistoric sites, and publishing over 200 popular and scholarly contributions. The Martin project is a National Science Foundation-sponsored effort to systematically inventory, catalog, and computerize the significant artifactual and archival collections made by Martin during his career. Nearly 500,000 artifacts have been cataloged, archives have been consolidated, Internet web pages have been created, and new analyses have been facilitated. When the project is completed in August 1999, the scope of the collection will be better understood than at any time since Martin's death in 1974.

Also in 1998 the Division of Amphibians and Reptiles initiated a project to verify the computer database of its collections, with support from the National Science Foundation. This project will allow the completion of phase one of a two-phase project to verify and edit the collection database and to inventory the entire amphibian and reptile collection. The Zoology Department was also awarded NSF support for improvement of collection facilities for frozen tissue samples for DNA analysis.

In an effort to more widely promote the significance of our Anthropology collections, the Office of Academic Affairs published *The Anthropology Collections of The Field Museum*, a 26-page catalog that introduces the richness of The Museum's anthropology collections, using exquisite full-color photographs of some 50 treasures from the collection. The objects were selected based on their aesthetic and scientific value, and their ability to convey the full scope of the collections—from familiar objects that are on exhibit to lesser-known treasures in storage. The text was written by writer **Jennifer M. Shopland**, with input from Department of Anthropology curators. The design was created in-house by **Lori Walsh** (Exhibits), and the project was managed by Project Coordinator **Lori Breslauer** (Academic Affairs).

### Public Education

During 1998 the staff of Academic Affairs was deeply involved in a variety of public education efforts ranging from community outreach programs to exhibit development and scientific symposia.

Underlining The Field Museum's position as a forum for ideas on a wide array of scientific and cultural topics, several departments in Academic Affairs hosted or participated in an unprecedented number of conferences and symposia in 1998. *It's Wild in Chicago*, the environmental festival sponsored by Chicago Wilderness, was hosted by The Field Museum for seven days in early April. The Festival, held in Stanley Field Hall, highlighted local natural history and celebrated the second anniversary of the Chicago Wilderness collaboration. The *A. Watson Armour III Chicago Wilderness Colloquium*, held on the first day of the festival, highlighted some of the accomplishments of the Chicago Wilderness partnership during its first two years. As part of the "It's Wild in Chicago" activities Curator **Michael Dillon** (Botany) also participated in a well-attended public lecture by "Bill Nye the Science Guy." Dillon discussed his research on the 1997-98 El Niño event. The *91st Meeting of the Illinois State Academy of Science* was also held at The Field Museum and The University of Illinois at Chicago on April 17 - 18. Associate Curator **Lawrence Heaney** (Zoology/ Mammals) gave the keynote

address on Friday evening in Montgomery Ward Theater, entitled "Evolution, Ecology, and Impending Extinction of Biodiversity in the Philippines, a Megadiversity Country."

The 1998 A. Watson Armour III Spring Symposium "*Combining molecular and paleontological data: A twofold approach for documenting major evolutionary patterns*" was held Saturday, April 25, in Simpson Theater. Thirty-seven institutions from throughout North America were represented among the more than 200 attendees. Organized by Assistant Curators **John Bates** (Zoology) and **Peter Wagner** (Geology), and coordinated by resident graduate student **Pam Austin** (Zoology/Mammals), the single day session included 10 presentations on topics ranging from novel approaches for the analysis of molecular and paleontological data, to the Cambrian explosion and the evolution of the fauna of Madagascar. Six Field Museum scientists were among the presenters. In late June over 300 arachnid specialists from 33 countries visited the Field Museum during the *XIV International Congress of Arachnology*. The Congress was organized by Adjunct Curator **Petra Sierwald** (Zoology/Insects) and consisted of over 140 oral presentations and more than 80 presented posters. The traditionally high number of participating students (nearly one hundred this year), and the large number of systematic papers, were especially notable features of this Congress.

An equally busy schedule of conferences occurred during the fall. A conference and workshop on *Human Genetic Diversity*, organized by Curator **John Edward Terrell** (Anthropology) Anthropology Research Associate **Sloan Williams** (University of Illinois, Chicago) was held at The Museum on September 24-26. The 17 invited participants and other guests from across the U.S. reviewed current thoughts and approaches on how multi-disciplinary studies of human genetic diversity can develop comparable data sets, share information, and contribute to public health. *The Midwest Regional Summit on Africa*, which was held at the Field Museum and other Chicago locations for four days in late September, featured presentations by MacArthur Curator **Bruce Patterson** and Adjunct Curator **Julian Kerbis** (both Zoology) on their research programs in East Africa. The Summit was a forum for discussion of diplomatic and economic relations between the United States and Africa, as well as for seminars on education, peace, quality of life, and human rights. Patterson related museum-based research on lions to The Museum's broader interests in exhibits, public education, and conservation, while Kerbis emphasized the vital link between museum research and technical training. On October 9-11 The Field Museum hosted the conference *Humankind's Evolutionary Roots: Our Place in Nature*. Sponsored jointly by the Midwest Center of the American Academy of Arts and Sciences (AAAS), the Alfred P. Sloan Foundation, and The Field Museum, the conference addressed recent advances in DNA research which have led to startling discoveries about the evolution of life on earth and the explosion of knowledge in a new scientific field some have come to call "evolutionary genomics." Curator and Chair **John Flynn** (Geology), was co-chair of the conference, and one of 18 speakers. Two weeks later the Anthropology Department held its annual Asian Ceramics Conference, entitled, *Asian Ceramics: Resolving the Enigmas of the 15<sup>th</sup> Century*, for three days in late October. The conference featured speakers representing several countries throughout Asia, as well as France and the U.K. In addition to these Museum-hosted events, our scientists and researchers participated in over 100 conferences and symposia, presenting scientific papers or conducting workshops, in addition to the usual teaching duties many of the curatorial staff undertake as adjunct faculty at area universities. Included among this academic outreach was the following.

During the fall of 1998 **Peter R. Crane**, Vice President of Academic Affairs and Director, lectured and conducted research as a Visiting Professor at the Botanical Institute and Botanical Garden of the University of Vienna, Austria, and also as a Visiting Scholar at Kagawa University Japan, supported by the Japan Society for the Promotion of Science. Acting Chair **Alaka Wali** (Anthropology) presented the significant findings of the Harlem Birth Right Study on gender roles and health risks for African American women at a two-day conference in Atlanta sponsored by the Centers for Disease Control. MacArthur Curator **Jonathan Haas** (Anthropology) participated in a workshop on "Long-Term Human Dynamics" held at the Santa Fe Institute in September. The focus of the workshop was to evaluate the current state of efforts to construct computerized models to simulate the evolution of human cultural systems.

Curator **Michael O. Dillon** (Botany) delivered one of eight conference lectures at the VII Congreso Nacional de Botánica in Cajamarca, Peru. The congress was attended by over 230 botanists, including from Brazil, Denmark, Ecuador, Germany, and the U.S. The Field Museum was also well-represented at the joint Mycological Society of America/American Bryological and Lichenological Society meetings held in San Juan, Puerto Rico in June, with presentations by Associate Curator and Chair **Greg Mueller** (Botany), Assistant Curator **François Lutzoni** (Botany), Collections Manager **Qiuxin Wu** (Botany), Postdoctoral Research Associates **Patrick Leacock** and **Fernando Fernández** (both Botany).

Assistant Curator of Meteoritics **Meenakshi Wadhwa** (Geology) attended the Annual Lunar and Planetary Science Conference at the Johnson Space Center in Houston, Texas in March, where she presented her recent work on the age dating of a primitive class of meteorites. Later in the year Wadhwa was an invited speaker at the Paul Pellas Symposium in Paris, and the annual meeting of the Meteoritical Society held at Trinity College in Dublin. At the 58th annual meeting of the Society of Vertebrate Paleontology in Snowbird, Utah, The Field Museum Geology Department was very well represented. MacArthur Curator and Chair **John Flynn** presented recent Triassic and Jurassic aged vertebrate discoveries from southern Madagascar (co-authored with **William Simpson**) while Curator **Lance Grande** gave a talk describing the first fossil pickerel from the Green River Formation of Wyoming. Research Scientist **Christopher Brochu** demonstrated a cd-rom version of the "Visible Alligator" created from CT-scanning of an alligator skull (the same technology he is using on the skull of "Sue").

Associate Curator **Lawrence Heaney**, MacArthur Curator **Bruce Patterson** and Collections Manager **William Stanley** (all Zoology) represented the Field Museum at this year's annual meeting of the American Society of Mammalogists in Blacksburg, Virginia. Heaney spoke about a subfossil water buffalo from the Philippines, Patterson about co-evolution of bats and batflies, and Stanley compared the divergence patterns of Tanzanian shrews and mice. At the Society for Integrative and Comparative Biology (SICB), held in Boston in January, Associate Curator **Mark Westneat** (Fishes) and Research Associate **Terry Grande** (Geology) presented phylogenetic analyses of fishes.

Environmental Educator **Carol Fialkowski** (ECP) spent a week in Ibaraki, Japan at the invitation of the Japanese Ministry of Education, participating in the U.S.A.-Japan Symposium on Environmental Learning with Effective Use of Museums, which was held at the Ibaraki Nature Museum. Fialkowski also traveled to the American Museum of Natural History in New York City where she gave a presentation for the Biodiversity Educator's Summit.

During 1998 Academic Affairs staff also made significant contributions to The Museum's exhibit programs. Members of the Division of Insects were involved in many aspects of this summer's exhibit of live butterflies, **Living Colors**. Collection Manager **Dan Summers**, Curatorial Assistant **Phil Parrillo**, and Adjunct Curator **Petra Sierwald** were all involved in the planning for this exhibit, and Associate Curator **Al Newton** also participated as a consultant at various stages of exhibit and web page development. Adjunct Curator **Margaret Thayer** was designated press liaison for the exhibit, and, together with Curatorial Assistant **Dave Pollock** and Technical Assistant **James Louderman** assisted in many aspects of the project including public relations efforts and education activities.

June 10 saw the public opening of the McDonald's Fossil Preparation Laboratory, located on the second floor of The Museum near the entrance to **Life Over Time**. The facility is a state-of-the art fossil preparation laboratory. Between now and the year 2000, Geology Department preparators **Robert Masek**, **Jennifer Moerman**, **Paul Brinkman** and **Matthew Groves** will be on public view as they prepare the bones of "Sue" for research and exhibit. After the completion of the *T. rex*, the lab will be used for the preparation of other fossils discovered by Field Museum paleontologists. The lab itself is designed to accommodate the joint needs of fossil preparation and exhibition: a continuous bank of windows running along the lab's perimeter provides a clear view of the preparators at work. This beautifully-designed exhibit quickly became one of The Museum's most popular attractions during 1998.

Also in the early summer The Field Museum's new "on-exhibit" fossil preparation laboratory opened on the grounds of Animal Kingdom, Disney's newest theme park at Orlando, Florida. The lab is a



separate building designed by Disney and Field Museum Exhibits staff. The lab's interior, planned with the guidance of Chief Preparator of Vertebrate Paleontology **William Simpson** (Geology) is similar to the laboratories in the Department of Geology and to the new McDonalds Fossil Preparation Laboratory, and includes a state-of-the-art ventilation system to ensure the health and safety of the "Sue" preparation crew. From mid-May 1998 until the end of the project the Orlando preparation facility will be staffed by Lead Preparator **Bruce Schumacher** (Geology) and Preparators **Joanne Avery** and **Casey Holliday**. Preparation in the Orlando facility will focus on the specimen's massive hindlegs and tail.

Another initiative implemented as part of the "Sue" project, which will eventually contribute to both research and public education, was to undertake a CT study of the skull. In August The Museum sent the skull to an industrial CT scanning facility operated by Rocketdyne, a division of Boeing, near Los Angeles, and since the fall Research Scientist **Christopher Brochu** (Geology) has been employing imaging software to interpret the data from the CT-scans, using both animation and 3-D modeling.

Throughout the year Curator and Chair (Botany) **Greg Mueller** and Adjunct Curator **Petra Sierwald** (Zoology/Insects) continued their intensive work as content specialists on **Underground Adventure**, which opens in March 1999, consulting on virtually every aspect of the exhibit—from reviewing label copy to advising on the development of a short film on human-soil interactions, to assisting with the selection of exhibit-related merchandise to be sold in the **Underground Adventure** store. Academic Affairs staff also worked extensively with colleagues in Museum Affairs on a variety of other projects in the public museum including consultation on the cultural aspects of **The Art of the Motorcycle**, preparation for the mounting of "Sue" and the attendant exhibitry, the relocation of the Geology exhibit to accommodate **The Art of the Motorcycle**, and adjustments to both the entomology and botany exhibits to accommodate the move of geological materials. In addition, the Department of Anthropology completed a major exhibit deinstallation to accommodate the new Museum Store.

Finally, The Museum's Web site informed an increasingly growing public on a wide range of Museum programs, research, exhibits, and initiatives in 1998, with a variety of exciting new components. The newly re-designed site reached nearly 500,000 visitors during the year—the equivalent of one-third of The Museum's physical visitors. A more complete account of the Web site's offerings and performance during the year is provided later in this Report.

### **Field Work**

Academic Affairs staff carried out field work all over the world in 1998. Only a selection of the field activities of our researchers are mentioned below.

In Anthropology, Head Conservator **Cap Sease** (Conservation) and Adjunct Curator **David S. Reese** (Anthropology) spent three weeks in late September and early October working on an excavation at the Chalcolithic (ca. 5000 B.C.) village of Tell Kurdu in southern Turkey, about 20 miles from modern Antakya (ancient Antioch) and adjacent to the Syrian border. Sease was the staff conservator and Reese the faunal analyst. The excavation is being directed by Dr. K. Aslihan Yener of the Oriental Institute of the University of Chicago.

In Botany, Curator **Michael Dillon** conducted field studies in Peru for six weeks in the early spring, supported by a NSF grant and private funds to study the effects of the 1997/98 ENSO ("El Niño") event. Dillon and two colleagues spent most of their time based at Tacna (close to the border with Chile) and completed a round-trip of 4200 kms (2600 miles) collecting and photographing plants from the coastal plant communities. In June, Dillon traveled to Rioja, San Martín in northeastern Peru to continue working on the floristic inventory of the Alto Río Mayo region, supported, in part, by the National Geographic Society. **Qiuxin Wu**, **Greg Mueller**, **Betty Strack**, (Botany) and **Todd Osmundson** (intern in Botany) spent late summer and early fall in the field as part of their research project investigating biogeographic relationships between the macrofungal mycota of eastern North America and temperate eastern Asia. Collecting was carried out in North Carolina and China.

In Geology, MacArthur Curator **John Flynn** and Resident Student **Darin Croft** (University of Chicago) mounted a two-week expedition in the Altiplano and Atacama Desert regions of northern Chile, with colleagues from the University of Chile, Andre Wyss (U. of California- Santa Barbara and Geology Dept. Research Associate), and Gerard Herail (ORSTOM-France). Their two-week trip was sponsored by the National Geographic Society. Curator **Olivier Rieppel** returned from three weeks of field work in the marine Middle Triassic (250 mya) deposits of the Augusta Mountains in northwestern Nevada. He was accompanied by Fossil Preparator **James Holstein** (Geology) and by Martin Sander (University of Bonn, Germany).

In Zoology, Conservation Biologist **Steve Goodman** (Mammals/Birds) returned to the Field Museum in June after nine months in Madagascar and Gabon. Activities on Madagascar involved conducting biological inventories of poorly-studied forested areas on the island as well as various training efforts for local conservationists. Earlier in the year Goodman was in northeastern Gabon conducting a survey of the recently named Minkebe National Park, a zone of millions of hectares of undisturbed and virtually unstudied lowland tropical forest. In July Goodman departed for another nine-month field season that will include work in Swaziland, Gabon, and Madagascar. Goodman's work will also include a two-month multi-disciplinary inventory of the Manongarivo Forest in northwestern Madagascar. For three weeks in October, Assistant Curator **John Bates** (Zoology/Birds) and University of Illinois, Chicago graduate student **Jose Tello** traveled to a remote part of northern Bolivia to conduct an avifaunal survey. The bird data, coupled with earlier field work in adjacent regions by ornithologists including Conservation Ecologists **Thomas Schulenberg** and **Douglas Stotz** (ECP) and Bates, are providing a fascinating picture of patterns of avian diversity in southwestern Amazonia.

Finally, a notable interdepartmental effort began in early 1998 with the establishment of the Tsavo Initiative. Preparator **Tom Gnoske**, Research Associate **Julian Kerbis**, and Curator **Bruce Patterson** (all Zoology, Mammals and Birds), and Assistant Curator **Chapuruka Kusimba** (Anthropology) traveled to Kenya and Uganda, where they established a new series of programs in the zoology and anthropology of East Africa. Since then Memoranda of Understanding have been signed between The Field Museum and the Kenya Wildlife Service (KWS) and the National Museums of Kenya involving collaboration in research, exhibit development, conservation, training, and staff exchanges between the two institutions. A major component of the initiative, the Tsavo Research Program, has defined a wide-ranging agenda in the natural and cultural history of the Tsavo region, including archaeology, taphonomy, biology and genetics of lions, and general faunal surveys. The program was initiated in the summer with archaeological excavations in southeast Kenya by Kusimba and his students. In the fall the rest of the team converged on Tsavo to excavate the cave of the man-eaters of Tsavo. The project was filmed by Kurtis Productions for a *New Explorers with Bill Kurtis* documentary on the man-eating Lions. Patterson brought back to Chicago genetic samples from 98 lions distributed throughout Kenya—this material will be used for research on manelessness and geographic variation in African lions that will be undertaken with Gnoske and colleagues at KWS.

### **Students**

The active research programs in Academic Affairs provide the foundation for a wide array of educational opportunities for students, ranging from hands-on internships for high school and undergraduate students, to graduate-level research in scientific disciplines that correspond to The Museum's research and collection strengths. In 1998 over 100 high school and undergraduate students participated internships in Anthropology, Botany, Geology, Zoology, and Environmental Conservation Programs. The "Biodiversity Explorers Program," aimed at introducing high school students to the biological sciences as a career choice, continued in its fourth year, exposing five high school students to field work and laboratory research. Five undergraduate students or recent graduates received internships through The Museum's endowed scholarship program to work directly with staff members in the scientific departments. Individual intern programs and other examples of student opportunities in Academic Affairs are described in more detail in the **Training Programs** section of this Report.

Some 70 Resident Graduate Students were involved in collections-based research in The Field Museum's collections and labs in 1998—an unprecedented number. The Field Museum's strong involvement in

student research is evidenced by the very visible presence of our students at scientific meetings. For example, the annual meeting of the Society for Integrative and Comparative Biology (SICB), held in Boston in January, was attended by several biologists from The Museum including University of Chicago students associated with The Museum's Zoology Department. University of Chicago student **Bradley Wright** (Zoology/Fishes--Biomechanics Laboratory) was the recipient of the D. Dwight Davis Award from the SICB's Division of Vertebrate Morphology. The award is presented each year for the best scientific presentation by a student in the fields of comparative morphology, functional morphology, or integrative vertebrate biology. D. Dwight Davis, for whom the award is named, was a prominent Field Museum curator from 1932-1965. Numerous students presented papers or poster sessions at other meetings, such as the World Congress of Malacology at the Smithsonian Institution in Washington D.C. the American Society of Mammologists Meetings, North American Ornithological Conference, Society for Vertebrate Paleontology, the World Congress of Malacology, and many others.

This strong showing at scientific meetings reflects the active research being carried out by the students in various Academic Affairs areas. Museum curators oversaw a number of Doctoral Dissertation Projects, Masters Theses, and Senior Theses during 1998, in which studies in Field Museum labs and collections were an important factor. Graduate and undergraduate students also accompanied Museum scientists into the field for hands-on collecting experience.

### Conservation Biology

Since 1990 The Field Museum has become a leader in environmental conservation by conducting active conservation and training programs, as well as strengthening its efforts in environmental education. The Office of Environmental and Conservation Programs (ECP) provides much of the focus of The Museum's conservation activities, most of which is the result of multi-disciplinary and multi-departmental efforts, as well as partnerships with other institutions. 1998 efforts in conservation are detailed on page 21 of this Report.

### Media Development

Field Museum scientists were featured frequently and prominently in the headlines and airwaves of both Chicago and national media during 1998. Only selected examples are presented here.

Chief Preparator of Vertebrate Paleontology **William Simpson** and Lead "Sue" Preparator **Bruce Schumacher** (both Geology) were on hand at the dedication of the new Dinosaur preparation lab at Disney's Animal Kingdom in April as part of a national press event marking the opening of Disney's new theme park.

A conference on "Human Genetic Diversity" organized by Curator **John Terrell** (Anthropology) generated a front-page story in the *Chicago Tribune* on September 30. The article featured comments from Terrell and other participants regarding current thought and practice on genetic diversity and the implications of related research for public health. Associate Curator **Lawrence Heaney** (Zoology) and Research Associate **Jack Regalado** (Botany) were interviewed about their new book published by The Field Museum, *Vanishing Treasures of the Philippine Rain Forest* on the WBEZ radio program "848" in June. Adjunct Curator **Margaret Thayer** (Zoology/Insects), designated press contact for the summer exhibit **Living Colors** exhibit, did several interviews with print and TV reporters regarding the exhibit. Associate Curator of Zoology **Janet Voight** (Invertebrates) and her research were featured during August in *The New York Times'* weekly "Science Times," *The Washington Post*, and in a 50-minute radio interview for the Voice of America's "News Now" show. The October 19 issue of the *New Yorker* featured an article by author John McPhee (1998 Founders' Council Award recipient) on Research Associate **William Bemis**. The article mentions Bemis' collaboration with Curator **Lance Grande** on their massive and masterful study of Amiid fishes.

The April 20 edition of *The New Explorers with Bill Kurtis* on the A&E cable network focused on The Field Museum and Conservation International's joint AquaRAP (Aquatic Rapid Assessment Program) in

Paraguay. Field Museum AquaRAP participants featured in the program were **Debra Moskovits**, Director of Environmental and Conservation Programs, and Associate Curator of Zoology **Barry Chernoff**. The program focused on the 1997 AquaRAP addressing the environmental impact of the proposed canalization of the Rio Paraguay. On May 21 *The New Explorers* focused on MacArthur Curator **John Flynn's** (Geology) field work and research on the fossils and geologic history of the Chilean Andes. Kurtis' production team tracked Flynn and **William Simpson** on a 1997 expedition to the Chilean Andes with colleagues from the University of Chile and the National Museum of Chile. The documentary followed the team as it traversed the rugged slopes of an unexplored region of the Andes in search of fossil evidence of the unique animals that inhabited South America millions of years ago.

### Prospects for 1999

It is already clear that 1999 will be another very active year in Academic Affairs. In Anthropology, the arrival of Professor Gary Feinman will set in motion a series of new initiatives in collections and research, which together with new programs developed by the Center for Cultural Understanding and Change will add to the breadth and impact of The Museum's activities in the cultural sphere. In biology, an aggressive program of fieldwork, research and collection improvement, together with the arrival of key new staff, will also continue the momentum developed over the last several years.

The summer and fall of 1999 will also be an important time of transition. A new Head of Information Services will be appointed to succeed Tim Krauskopf. In two years Tim has made enormous contributions to developing new capacity in information technology, and has helped implement many important new projects across The Museum. The selection of my own successor as Vice President, Academic Affairs will also take place in the next few months. This will be a critical appointment for maintaining the strength of The Museum's core programs in collections and research, and for determining the appropriate balance for future activities. These transitions present important opportunities to introduce new ideas that are vital for the future of any organization, and the result will be further strengthening of The Museum's academic programs. On the cusp of these and other transitions in 1999 The Museum's staff and supporters should feel proud of their accomplishments—but the prospects for the future are still more exciting.

Peter R. Crane, F.R.S.  
A. Watson Armour III, Curator  
Vice President, Academic Affairs and Director

ORG. CHART

## **ACADEMIC AFFAIRS STAFF LIST**

(as of March 15, 1999)

### **Office of Academic Affairs**

Peter R. Crane, Ph.D. .... Vice President, Academic Affairs and Director; A. Watson Armour III, Curator  
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Lori F. Breslauer, J.D. .... Project Coordinator and Web Manager, Academic Affairs  
Deborah Bakken, Ph.D. .... Coordinator, Sponsored Programs  
Towanda Simmons ..... Administrative/Financial Assistant, Academic Affairs  
Karsten Lawson, B.F.A. .... Administrative Assistant, Academic Affairs  
Brad Loetel, M.A.M.S. .... Webmaster  
Allyson Meyer, M.A.M.S. .... Web Content Specialist

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Gretchen Baker, B.A. .... Natural Products Initiative, Program Developer  
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Madeleine Tudor, M.A. .... Special Projects Coordinator, Center for Cultural Understanding and Change

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Chapurukha Makokha Kusimba, Ph.D. .... Assistant Curator, African Archaeology and Ethnology  
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John Terrell, Ph.D. .... Curator, Oceanic Archaeology and Ethnology  
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Paul Hockings, Ph.D.....Adjunct Curator, Southern Asian Social Anthropology  
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Mavis Blacker.....Collections Management Assistant  
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Rainer Zangerl, Ph. D.....	Curator Emeritus, Fossil Fishes
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Lance Grande, Ph. D.....	Curator, Fossil Fishes
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Constance Van Beek.....	Preparator of Fossil Vertebrates
Elaine Zeiger, B. Music.....	Secretary



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David Willard, Ph.D.....	Collection Manager, Birds
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Rayfield Drake, A.S. .... Computer Systems Specialist  
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Neil Young, B.S. .... Computer Systems Specialist

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Marjorie Pannell ..... Editorial Coordinator, Field Museum Press

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Jeremy Kirchman, B.S. .... Biochemistry Research Technician

### Scholarship Committee

Lance Grande, Ph.D. .... Chair, Scholarship Committee  
Elaine Zeiger, B. Music. .... Secretary, Scholarship Committee

## CENTER FOR CULTURAL UNDERSTANDING AND CHANGE

### **“Rethinking the City”**

Chicago is a young city by world standards. It reinvented itself after the Great Fire and has been going strong ever since. Known for its nourishment of the arts, industry and architecture, it is also the site of crucial social science research on urban life. It was in Chicago that the first empirical sociological studies of social structure and patterns of organization in American city life were conducted (the famous studies of the Chicago School of Sociology of the 1920s and 1930s at the University of Chicago). It was also in Chicago that Jane Addams, Thomas Dewey and others conducted research and implemented programs for progressive education and amelioration of living conditions for city residents. More recently, Chicago was home to the research of William Julius Wilson, a leading sociologist whose model of the underclass and the conditions of poverty have guided debate in this field.

Yet the city is rapidly transforming, adjusting to the forces of globalization (see for example the series, "The Global City," in the *Chicago Tribune*, February 7-12, 1999, which sets forth issues faced by the city of Chicago as it moves into the 21st Century). New approaches are needed to understand the complex processes and patterns that are emerging in these times of transition from an industrial economy to an information-based economy. Anthropology offers a fresh perspective on urbanism, one that draws on its cross-cultural comparative method and its ability to integrate knowledge about the span of human accomplishments over time. The Center for Cultural Understanding and Change, with generous support from the John D. and Catherine T. MacArthur Foundation and the John Nuveen Company, has begun an exciting initiative to bring the Museum's resources and research expertise to bear on developing new understandings of city life and providing information to the Museum's audiences about this vital and ever-changing metropolis. Some of the questions we are asking or hope to ask as the project develops are:

1. What types of communities are residents forming, and how are they reflected in demographic, geographic and spatial arrangements? How are they reflected in the material culture of everyday life?
2. What are the ways in which Chicago's residents shape and interact with the natural environment? The Chicago Wilderness project has contributed to our knowledge of the region's rich biodiversity. Now we need to explore how we can effectively engage local communities in the tasks of preserving biodiversity.
3. What are the sources of civic activism? Anthropologists have long refuted the "deficit" model of urban life which assumes that poor communities lack the organizational capacity to improve their conditions. Empirical research has identified the sources for tangible and intangible assets, such as social institutions (church, family, voluntary association), social networks, and historical memory. Building on this research, we can now document community and culture building practices.
4. What are the insights into Chicago's history that can be gained from the archeological record? Historical archeology is a growing sub-field which can bring exciting new information to light on the patterns of urban growth, settlement and consolidation.

As we undertake research and public programming to explore these questions, CCUC will work to form new collaborations with area universities and civic organizations. It is our hope that Chicago's residents will rediscover anthropology at The Field Museum and find that there is much more here about themselves than they ever imagined.

## CENTER FOR CULTURAL UNDERSTANDING AND CHANGE

### **Programs and Initiatives**

The Center for Cultural Understanding and Change (CCUC) continues to play a vital role in the dissemination of anthropological research through public programs, and through training and research initiatives. The Center has concentrated its efforts in two areas: developing and solidifying research and education linkages to the wider Chicago community, and working to integrate anthropological perspectives and approaches into ongoing biodiversity conservation efforts at the Museum. CCUC director Alaka Wali, External Affairs Manager Jacqueline Carter, and Special Projects Coordinator Madeleine Tudor have initiated several new and innovative programs within these areas.

**“Cultural Connections”** is a CCUC initiative in partnership with seven other cultural institutions: Balzekas Museum of Lithuanian Culture, DuSable Museum of African American History, Hellenic Museum, Mexican Fine Arts Center Museum, Polish Museum of America, Spertus Museum, and Swedish America Museum. The program draws upon the resources of downtown and neighborhood cultural museums to offer an anthropology-based educational program. Cultural Connections has two objectives: i) to demonstrate how the research of anthropology can be used to address contemporary urban concerns, specifically cross-cultural understanding; and, ii) to introduce museums as unique venues for learning about the diversity in ones own city. Program participants are introduced to museums as a resource for examining contemporary issues, and as places where connections can be made with individuals of diverse ethnic backgrounds. Each museum hosted an event where program participants experienced a few of the many cultures that give Chicago its character while they explored the reasons behind cultural diversity and uncovered their connections with each group. Since its inception two additional partners have joined us —Czechoslovak Heritage Museum and Ukrainian National Museum. The next cycle of the Cultural Connections program will be expanded to include additional museum partners, and promotion efforts will focus on a more diverse audience, including young adults.

**“Understanding Civic Life and Activism in Chicago”** is an innovative initiative formed of a collaboration among The Field Museum, Chicago community based-organizations, and area universities. The goal of the initiative is to lessen the gap between research, practice, and policy in Chicago through programs that include internships, postdoctoral positions, resident fellowships for community organizers, and institutionalized seminars. An initial portion of this initiative was piloted as an internship program in which eight post-secondary social science students conducted original ethnographic research for community-based organizations in the city, and received training in creative strategies of public education at The Field Museum. In collaboration with the Museum's Office of Environmental and Conservation Programs, CCUC submitted two major proposals to the National Science Foundation for support of this initiative.

**Living Together Corporate Diversity Program.** Based on the “Living Together” exhibit framework of *Common Concerns, Different Responses*, this program invites corporate diversity trainers to use the exhibit as a resource to complement their ongoing diversity training in order to help their employees build cultural understanding in the workplace, in their communities and beyond.

Among many other efforts in 1998, CCUC also collaborated with the Anthropology Department on a three-day workshop on “Health and Global Genetic Diversity,” participated in the planning and implementation of Nuveen Day at the Field Museum, and throughout 1998 hosted a variety of seminars and special lectures by anthropologists and other scientists including: Sheila Walker, University of Texas, Austin; Irma McLaurin, University of Florida, Gainesville; Alan Templeton, Washington University, St. Louis; Luisa Maffi, Northwestern University, Evanston, IL; Robert Welsch, Dartmouth University, New Hampshire and The Field Museum; Clark Erickson, University of Pennsylvania, Philadelphia; and Michael Dietler, University of Chicago.

## ENVIRONMENTAL AND CONSERVATION PROGRAMS

Environmental and Conservation Programs (ECP) was established in 1995 and continues to expand the Field Museum's research and education efforts in critical conservation biology issues. ECP's central effort is to develop efficient, creative links between the vast knowledge base at The Museum and the immediate needs in conservation action and education at the regional and international levels. What follows is an overview of the 1998 efforts in collaboration with various Museum departments and with other organizations.

In February 1998 Latin American Rapid Assessment Program Leader Tom Schulenberg and ECP Director Debra Moskovits participated in a Rapid Assessment Program (RAP) in the west African country of Ivory Coast. This expedition, organized by Conservation International, was designed to survey Marahoue National Park in central Ivory Coast, an important site that straddles the transition zone between the southern, forested regions of Ivory Coast and the northern savannas. Although nominally protected, Marahoue is under threat from illegal hunting and agriculture, and from invasive (non-native) plant species. RAP provides important baseline information, and guidance for the management plan that is being developed for Marahoue.

In the early spring of 1998 Associate Curator Barry Chernoff (Zoology/Fishes) and Moskovits did "fly-overs" of the Brazilian Pantanal—for a late summer AquaRAP (Aquatic Rapid Assessment) Program—and also of the Río Pastaza in Peru and Ecuador for an AquaRAP trip slated for 1999. The summer 1998 AquaRAP, a Field Museum-Conservation International collaboration, was carried out to assess the biodiversity of the enormous wetland known as the Pantanal (in western Brazil, bordering Bolivia and Paraguay). The Pantanal is threatened by deforestation in the headwaters and along river margins, and by the planned canalization of the Paraguay river ("Hidrovia" project). A team of 35 scientists from the U.S., Ecuador, Brazil, Peru, and Venezuela covered 4,400 kilometers in 21 days, registered a number of new species (including many new to science). The team included Chernoff, Moskovits, Conservation Ecologist Robin Foster (Botany/ECP) and AquaRAP Post-doctoral Associate Phillip Willink (Zoology/ECP). The AquaRAP made headlines in several Brazilian publications in September of 1998, including the newspapers and the national news magazine *Veja*.

In 1998 ECP formed an active partnership with the Cofan indigenous community of eastern Ecuador, permitting us to interweave the scientific strategies of the Museum with innovative programs initiated by the Cofan and integrated into their cultural ethic. The Cofan traditional territories, which stretch from the base of the Andes into the rainforests of western Amazonia, face relentless pressures from oil exploration and forest destruction. For the past decade, under the leadership of Randy Borman (son of linguists from the United States, with lifelong roots in Cofan society), the Cofan of Zábalo have been negotiating practical solutions that focus on the long-term survival of their culture and of large expanses of intact forest. ECP and the Cofan are involved in the protection and eventually sustainable consumption of the endangered side-necked river turtles that have been a major food resource for the peoples of Amazonia throughout the history of human presence in the region. A rigorous monitoring program begun in 1998 will measure the benefits of Borman's experiment with capturing and raising turtle hatchlings, and reintroducing them to the wild. Although systematic studies are still lacking, preliminary indications are that the turtle populations are increasing. This partnership is a rare opportunity to build a foundation for long-lasting conservation efforts in the region.

The Field Museum is also leading several initiatives in the Chicago region. To evaluate the effects of brush removal and burning, a common practice for restoring open oak woodlands, scientists from Botany, Zoology and ECP are focusing on one experimental site (Swallow Cliff Woods) and one control site (Cap Sauers Holdings) in the Palos region of the Forest Preserve District of Cook County. In this woodland-and-savanna complex, a moratorium on restoration activities (mid-1996 - 1997) and a very wet spring (1998) postponed the schedule for cutting and burning to 1999. The scientists took advantage of this delay to collect three years of baseline data on species composition of natural communities and on populations of key organisms. Taxonomic groups inventoried include fungi, bryophytes, vascular plants, terrestrial mollusks, rove, carrion, and ground beetles, amphibians, reptiles, and birds. Preliminary data suggest that most taxa characteristic of open oak woodland and oak savanna will show either

increases or no change in abundance after cutting and burning. The additional years of inventory allowed us to refine predictions about the effects of restoration on individual taxa. Unexpected discoveries included new species for the county and the state, and a species of rove beetle, as well as a species of mushroom, new to science. Throughout the study, Forest Preserve District staff collaborated on design and execution; results will continue to inform management decisions for the Palos preserves.

In a partnership with the Illinois Department of Natural Resources (IDNR), Museum scientists from Zoology, Botany and ECP launched the Illinois Rapid Assessment Program (IRAP). Modeled on the successful tropical RAP originated by Conservation International and Field Museum scientists, IRAP focuses on intensive yet time-effective inventories of the biological richness of sites in Chicago Wilderness. These biological "snapshots" of the diversity and condition of Illinois ecosystems will lay the groundwork for ecological monitoring and will provide local, state, and federal decision-makers with data for setting conservation priorities. Results will be among the tools shaping the regional Biodiversity Recovery Plan. From Chicago Wilderness pilot sites, IRAP will be available for export to other areas throughout the state, as well as for monitoring by networks of citizen scientists, for example through EcoWatch. Among the organisms being tested for their ability to indicate status and change in a highly fragmented landscape are macrofungi, bryophytes, vascular plant, land snails and slugs, rove, ground, and carrion beetles, spiders and millipedes, amphibians and reptiles, and birds.

A team of Field Museum scientists from Zoology and Botany, ECP, and the Illinois Department of Natural Resources (IDNR) developed protocols for UrbanWatch, a program that engages "citizen scientists" in data collection. UrbanWatch focuses on urban greenspaces (local parks, vacant lots, schoolyards, community gardens and backyards). Target organisms include: trees, fungi, tiger beetles, carrion and rove beetles, land snails and slugs, butterflies, and birds. UrbanWatch is the fifth Illinois EcoWatch Network monitoring program; once it is tested and revised it will be launched statewide by IDNR. The Field Museum piloted UrbanWatch with adult volunteers at Rainbow Park on the south-side. A total of 17 volunteers (from places such as the Juan Diego Community Center, Electronic Data Systems, the Chicago Park District's Green Team, Chicago State University, Chicago Academy of Sciences, the Illinois EcoWatch Network and our own ECP) participated and provided valuable feedback and suggestions for improvements.

The Natural Products Initiative (NPI) was created in 1998 within Environmental and Conservation Programs. This initiative also connects directly with the Departments of Anthropology, Botany, and to a lesser extent Zoology. The role of NPI is to capitalize on the Museum's interdisciplinary strengths in anthropology, botany, zoology and environmental conservation to develop ecologically sound approaches to the use of biological resources. Goals of the NPI include: generating frameworks for viable, low-impact alternatives to potentially damaging use of plant and animal resources in high priority conservation regions; cultivating interdisciplinary research and enterprise partnerships targeted to specific renewable products; increasing public awareness of economically useful plants, and of natural products in our everyday lives; promoting broader appreciation for the conservation of plant, animal and cultural diversity. Staffing the NPI office are Manager Sophie Twichell and Program Developer Gretchen Baker.

Among ECP's many educational efforts, Environmental Educator Carol Fialkowski's contract to lead the Park District's environmental and outdoor education initiative was extended through 1998. By the year 2000, 20% of the programs in Chicago Parks will have an environmental focus, and Fialkowski's expertise is providing the leadership and process for the Park District to achieve this goal, continuing a strong partnership between the Chicago Park District and Environmental and Conservation Programs at The Field Museum. The Park District's vision for the Environmental and Outdoor Education Core area is to encourage awareness, appreciation, knowledge and stewardship of our natural resources and resource-based recreation. With this in mind, Fialkowski has worked with the Park District Staff and facilitated planning charettes that created a three-year master plan that focuses on program planning, staff support and community partnership. Perhaps the greatest impact of this partnership lies in the Park District's ability to reach a diverse audience that has not yet been reached by previous efforts in conservation education.

## **CHICAGO WILDERNESS: THE FIRST TWO YEARS—A PROGRESS REPORT**

In 1996, a coalition of diverse and determined organizations launched a new force on the landscape. Their vision? Chicago Wilderness: a thriving mosaic of natural areas (200,000 acres of protected land connected by greenways and wildlife corridors) embedded in the nation's third largest metropolitan area. In this vision, the region's human communities reclaim a cultural tradition of restoring, protecting, and managing the globally outstanding natural communities that enrich their lives. On its second anniversary, Chicago Wilderness—once seen as a contradiction in terms—is already becoming a reality, mobilizing human diversity on behalf of biological diversity.

### **Our Commitment**

From Goose Lake Prairie southwest of Joliet, Illinois, Chicago Wilderness stretches north to Chiwaukee Prairie in Wisconsin and southeast around the shore of Lake Michigan to the Indiana Dunes. Its protected lands range from half-acre prairie remnants to the 19,000-acre Midewin National Tallgrass Prairie in Will County, Illinois. Lake Renwick Heron Rookery; Middle Fork Savanna; the 14,000 acre complex of woodlands, wetlands, and forest in the Palos preserves: these are but a small sample of the region's natural areas. Institutions devoted to preserving these havens of life include landowners; local, state, and federal agencies; centers for research and education; and conservation organizations, among others. Thirty-four of these institutions pooled their resources and strengths to form the Chicago Region Biodiversity Council in 1996. The Council now includes more than 70 members.

By signing a memorandum of understanding, the members of this innovative partnership have pledged a commitment to the protection, restoration, and management of Chicago Wilderness. Four teams focus on central lines of action: science, land management, policy and strategy, and education and outreach. Chairs of these teams form the nucleus of a coordinating group that develops central programs; a steering committee of executives oversees the initiative's direction. Chicago Wilderness staff create the framework on which programs are organized, as diverse projects are knitted together into a safety net for the region's natural communities. Adding to the expertise and actions of core staff, partners make possible a broad spectrum of endeavors, from research to restoration to public participation. Thousands of volunteers complement the skills and contributions of the professional staff.

### **Our Direction**

Chicago Wilderness has taken on no small challenge. Tallgrass prairie was once ten thousand times more extensive in Illinois than it is today; natural oak savannas are even rarer. One hundred eighty-one of the region's species are listed as threatened or endangered in Illinois. Although Chicago and its suburbs saved their wild inhabitants and habitats from the plow, they have exacted their own toll on ecological health and survival. Poorly planned development has fragmented or eliminated natural refuges. Fire suppression and the invasion of aggressive species have disrupted whole ecosystems. Pollution, alteration of hydrologic cycles, historic removal of predators, and recreational misuse leave species and communities wounded. These threats are just as costly to the people of Chicago Wilderness: public health aside, the regional economy suffers as its resource base is whittled away.

To meet this challenge, Chicago Wilderness takes an approach that is both scientifically sound and grounded in public participation. The goal is to enhance the quantity and quality of natural communities, while simultaneously improving the quality of life for human residents. Chicago Wilderness strives to add protected sites to the core, to restore degraded areas to health, and to manage sites—both pristine and restored—so that they have the resilience to adapt to the region's current conditions. Interlacing strategies and actions already under way are the raw material for the Chicago Wilderness Biodiversity Recovery Plan.

The Chicago Region Biodiversity Council funds projects on an annual cycle. Reviewed and approved by a proposals committee, most funded projects are a result of collaboration among member institutions; all address critical conservation needs in the region, according to criteria established through the Biodiversity Recovery Plan. Since its launch in April 1996, Chicago Wilderness has endorsed more than 150 collaborative projects and has funded nearly eighty of them. In addition to projects funded directly by the Council, the initiatives of individual member organizations are central to the success of

Chicago Wilderness. Both Council- and member-funded projects are focused on six themes (with many contributing to several themes at once): characterization and information management; inventory and monitoring; ecological restoration and land management; planning and policy; public participation and outreach; and communication and publications.

### **Discerning Patterns: Characterization and Information Management**

The work of Chicago Wilderness is built on a profile of the region's biological diversity at all levels: species, natural communities, and the landscape. By characterizing the currency of this wild wealth, scientists and land managers establish a common vocabulary for discussing conservation needs.

Natural communities are the units of focus for the preservation efforts of Chicago Wilderness. The region's community diversity is high: the current classification recognizes four types of forested communities, two of savanna, two of shrublands, four of prairie, and six of wetlands, as well as cliffs, and lakeshores. In 1998, the work of the Science and Land Management teams focused on a series of workshops to characterize the extent and condition of these communities as a basis for conservation action. Meanwhile, Chicago Wilderness-funded projects enrich the data sources for these workshops; for example, the Morton Arboretum and the Natural Land Institute are digitizing data on the vegetation structure of prairie and wetland communities. Information on individual species is "rolled up" into community summaries. The Science and Land Management teams have made great strides in enumerating and determining the status of vertebrate and invertebrate animals in Chicago Wilderness, to complement existing databases on plants. In a series of expert workshops, the teams described assemblages of animals associated with particular habitats, underscored urgent conservation concerns for each assemblage, and identified critical research needs. A similar workshop showed status and trends for threatened and endangered species of plants and animals.

A powerful tool for conservation, Geographic Information Systems (GIS) are computer hardware and software that connect spatial data (occurrences of fens, say, or centers of human population growth) to specific geographic coordinates. NASA is collaborating with Chicago Wilderness members to map the region's current vegetation cover from satellite images, to hone spatial analysts' ability to identify and evaluate natural communities from these images, and to detect the overall pattern of landscape change. The Council has funded several other projects that put GIS to work for biodiversity. Chicago Wilderness ensures the compatibility of systems for data management among member institutions.

### **Taking The Pulse Of Natural Areas: Ecological Inventory and Monitoring**

Although the Chicago area's natural history has been studied for more than a century, gaps in our knowledge of community composition still hamper decision-making. Filling these gaps is the aim of a partnership between the Illinois Department of Natural Resources (IDNR) and The Field Museum. Launched in 1997, the Illinois Rapid Assessment Program (IRAP) integrates information across organism groups and across scales from individual species to entire landscapes.

Complementing the regionwide approach of IRAP, several Chicago Wilderness-funded projects concentrate on biological inventories with other geographic dimensions. From a survey (led by the Max McGraw Wildlife Foundation) of bat species in Cook and McHenry County forest preserves, to an inventory (directed by the McHenry County Conservation District) of natural communities throughout the Fox River watershed, these projects hone in on key species and attributes that will allow us to evaluate the condition of natural areas.

Chicago Wilderness-funded monitoring projects range from measures of specific threats to records of long-term change in organism groups and communities. The Field Museum is comparing the composition of the region's bryophytes today to the composition indicated by Museum collections as much as a century old. The Morton Arboretum has revealed the deterioration of forest stands in five counties over 20 years; the probable culprits are fire suppression and the takeover of aggressive species, including deer. The Kane County Forest Preserve District is tracking the encroachment of garlic mustard, a non-native invader, on indigenous plants. In addition to answering pivotal management questions, ecological inventory and monitoring are fertile ground for training and public involvement.



### **Fostering Natural Change: Ecological Restoration**

Although restoration is central to the recovery of many sites in Chicago Wilderness, several show particular promise as centers for research and practice. At the Indiana Dunes National Lakeshore, scientists from two universities (the University of Illinois at Chicago and Indiana University Northwest) are measuring the responses of species and communities to stress and subsequent restoration, while Lakeshore staff join volunteers in restoring a degraded prairie remnant. Once the Joliet Army Arsenal and now managed by the USDA Forest Service, Midewin National Tallgrass Prairie is the focus of a plan (by the Wetlands Initiative) to restore globally rare dolomite prairie, as well as a demonstration venture (by the Openlands Project) on stream restoration. Restoration occurs not in isolation but in conjunction with other successful management practices. At Swallow Cliff Woods in Cook County, a team of biologists from four Chicago Wilderness institutions (led by The Field Museum) is monitoring the results of burning and brush removal on several groups of organisms in native oak woodlands. In the watershed of Butterfield Creek, land acquisition and the creation of wildlife corridors are among the options that the Northeastern Illinois Planning Commission is considering, to complement wetland and upland restoration. Other Chicago Wilderness-funded projects are directed toward research on propagation and reintroduction of native plants and on removal of invasive species.

### **Saving The Urban Ecosystem: Planning and Policy**

Chicago Wilderness institutions are hard at work on incorporating planning and policy into the far-reaching Biodiversity Recovery Plan. Aware that urban open space is disappearing much more rapidly than population increases alone can explain, the Council's Policy and Strategy Team is engaged in a search for innovative approaches to managing growth. They focus on policies and incentives for land-use zoning, transportation and greenways plans, local ordinances, regional infrastructure, watershed management, land acquisition, conservation easements, and funding for model projects. An evolving document, the Chicago Wilderness Biodiversity Recovery Plan is the nucleus of current work and will be the blueprint for the future. Scheduled for preliminary review in 1999, the Recovery Plan will address the conservation needs of both terrestrial and aquatic systems. Workshops of regional experts focused first on major organism groups, including threatened and endangered species, and next on natural communities, the actual building blocks of Chicago Wilderness. Through the plan, scientists, land managers, educators, and policy makers will assess the status of biodiversity in the region, including the contributions of each community type to the whole; weigh the threats facing each community; define recovery goals for communities, with priorities determined by biological importance and degree of threat; and recommend feasible conservation actions.

Among the projects funded by Chicago Wilderness are several that lay the scientific groundwork for conservation priorities. Collaborating with the Northeastern Illinois Planning Commission and using data from the Illinois Environmental Protection Agency, the Openlands Project has identified 842 stream reaches in the state, creating a flow chart to focus attention on waterways in urgent need of protection and recovery. In northern Lake County, Indiana, The Nature Conservancy has joined forces with Ball State University to map remnant dunes and swales as a first step toward their management.

### **Renewing an Environmental Ethic: Education, Outreach, and Public Participation**

Chicago Wilderness takes full advantage of its members' experience in school-based environmental education, but its approaches are anything but traditional. The Chicago Botanic Garden and The Nature Conservancy have created the Biodiversity Education through Action (BETA) program, which aligns ecological curricula with local, state, and national standards. Friends of the Chicago River and the Chicago Academy of Sciences involve students and teachers in aquatic conservation through the Chicago River Schools Network. Led by the Illinois Natural History Survey, seven land-management agencies are getting students out of the classroom and into the wetlands to release biological control agents for purple loosestrife, a relentlessly invasive plant. Innovative tools for schools include educational trunks on water resources (Lake County Health Department) and a tabloid supplement on local biodiversity developed as part of the *Chicago Tribune's* Newspaper in the Classroom program.

Beyond the classroom, Chicago Wilderness speaks to children and adults, both literally and figuratively, through monthly field trips and workshops focused on local sites and issues, a Youth Environmental Symposium on the stewardship of county forests, a Naturalist Certificate and

Stewardship Training Program, promoting native landscaping in urban communities, conferences on ecological restoration, urban growth, and bird and habitat restoration. Such partners as Chicago State University and The Field Museum have also focused efforts on reaching underserved segments of Chicago's population as a central goal for education and outreach in Chicago Wilderness.

### **Spreading The Word: Communication and Publications**

Seven and one-half million people live in greater Chicago. More than 70 organizations give life to Chicago Wilderness. For these audiences, sheer numbers and diverse concerns make communication seem a daunting prospect. Yet these challenges are also opportunities. Each of the 7.5 million resides within 20 minutes of a natural area. Each of the 70 stands to gain from efficient contact with each other and with their publics. In 1998, Chicago Wilderness launched an imaginative communications strategy to capitalize on these opportunities. Led by a three-quarter-time public relations manager and a Communications Advisory Group, this initiative builds on previous successes in making internal and external connections. A home page on the Web ([www.chiwild.org](http://www.chiwild.org)) informs Council members while promoting Chicago Wilderness to the "surfing" public. Two workshops (one organized by the City of Chicago's Department of Environment and the other by the Chicago Botanic Garden) gave educators from member institutions the chance to share methods and to lay groundwork for collaboration.

The plan for external communication has three goals: to increase the public's affinity with local nature and conservation, to enhance the direct benefits that Council members receive from the partnership, and to establish a positive public identity for Chicago Wilderness. The nucleus of this strategy is the "Natural Wonders of Chicago Wilderness" Campaign, in which 12 spectacular and accessible preserves speak for the region's natural diversity. In addition to tools produced by member organizations such as CD-ROMS, videos, a Chicago Wilderness handbook, a guidebook on protecting regional biodiversity, Chicago Wilderness has introduced an full-color quarterly magazine, and recently published an outstanding atlas of local biodiversity, available to the public at no charge.

Media outreach is a year-round endeavor for Chicago Wilderness. In addition to coverage by print and electronic media, Chicago Wilderness has organized special media events for the launch in 1996 and has included media outreach in public festivals ("It's Wild in Chicago") in 1997 and 1998 at The Field Museum. In all of these communication efforts, the energy of Chicago Wilderness spreads like a prairie fire to restore the bonds between human and natural communities.

### **Our Vision For the Future**

How could words capture the depth and breadth of Chicago Wilderness? The region is immense, the human population enormous; pressures on the environment are heavy. In the midst of these challenges is an equally monumental opportunity: to restore to life a complex of natural communities among the world's finest, but on the verge of disappearing from that roster forever.

Chicago Wilderness began with a larger-than-life goal: nothing less than rescuing vibrant natural areas by transforming the environmental culture of the people responsible for them. In its first two years, Chicago Wilderness has proved itself equal to the task. With an unrelenting sense of urgency, this coalition of dozens of outstanding, complementary institutions has woven a strong fabric of strategies and actions. From scientifically rigorous approaches in ecological inventory, restoration, and monitoring to creative advances in planning, policy, education, and outreach, the accomplishments of Chicago Wilderness build a living legacy for the future.

In the vision of Chicago Wilderness, Chicago will be known not only as the industrial metropolis of Carl Sandburg's poems. Nor will it be distinguished only for its food, music, sports, and cultural institutions, or even for its mighty lake. Chicago will be known as the home of a global treasure: its prairies, its oak savannas and woodlands, its wetlands and waterways. And it will be known as a place whose people have a passion for wilderness, as well as the foresight and ingenuity to save their piece of it. As a model for other urban areas, Chicago Wilderness will send its ripples of hope to city dwellers far beyond its borders.

## THE FIELD MUSEUM WEB SITE

The Field Museum's Web site ([www.fmnh.org](http://www.fmnh.org)) has proved to be enormously successful since being completely redesigned in September of 1997. The new site was developed in-house through the team effort of Web Manager **Lori Breslauer** (Academic Affairs), Webmaster **Brad Loetel** (Academic Affairs) and Designer **David Quednau** (Graphic Design), with assistance from the Computer Services staff, who installed and configured the web server hardware and software. The site has shown markedly increased usage, from an average of 10,000 users per month in late 1997 to over 60,000 per month in late 1998. The average user session on the site has increased from four minutes to more than ten. It is clear that more and more Wvisitors use our site to plan a visit to The Museum, to review our job postings, or to browse our specialty sites, especially "The Lions of Tsavo", "Butterflies at The Field Museum," and "Sue." Overall the site came very close to having 500,000 visitors in 1998—the final tally was 495,692. Visitorship to the site continues to climb steadily each month, with 61,937 visitors in December (compared to 23,869 December 1997). The site started out the year being selected as one of the best sites on the Web by Lycos TOP 5%, the oldest and most prestigious Web site directory. In October *The St. Louis Post-Dispatch* ranked the site first on a list of the top ten museum Web sites from around the world, including (in descending rank) the Exploratorium in San Francisco, The St. Louis Science Center, the Adler Planetarium, and The Louvre. Our site was held up as a prototype other museums should follow, and was praised for the quality of its design and depth of its information. On December 14 the new "Sue" Web site ([www.fmnh.org/sue](http://www.fmnh.org/sue)) was one of Yahoo's seven Picks of the Week, and it was also selected as a *USA Today* Hot Site December 24-27.

The site was significantly improved and upgraded throughout 1998. During the summer Webmaster Brad Loetel redesigned the "Lions of Tsavo" Web page, adding more images, as well as information on our research programs in Tsavo and the new initiative with the Kenya Wildlife Service. The "Lions of Tsavo" Web pages, which can be accessed in the On-line Exhibits section of the Web site, continue to be among the most popular pages on the site. The "Butterflies at The Field Museum" site, developed in conjunction with the **Living Colors** exhibit, was also extremely popular. Adjunct Curator **Margaret Thayer** was central to developing the "Butterflies" Web pages, providing the overall initial concept, selecting images, and acting as content specialist, design consultant, and writer and editor with Web Manager Lori Breslauer.

The "Sue" Web site was launched on October 21. This new site features a Sue timeline, an image gallery, activities for kids, and information on the preparation of Sue. In its first week, this new site garnered 15 of the top 100 pages for our entire site ("Lions of Tsavo" is still first, with 24 pages). The site is updated on a monthly basis, adding new kids games, the latest dinosaur of the month, and more. The site was designed and developed by Web Content Specialist **Allyson Meyer** (Academic Affairs), who joined the Web team in October with a Masters in Biomedical Visualization from the University of Illinois at Chicago. As a Field Museum intern Meyer designed and helped develop the sites, "Butterflies at The Field Museum" and "The Anthropology Collections."

Improvements to the Web site that are being planned for 1999 include an update of the "Sue" site, which will be coordinated with the summer exhibit on Sue's skull, a new site on the Museum's research, collections, exhibits, and training programs in Africa, to complement the brochure on Africa published by Academic Affairs last fall, and an interactive, educational Web site for the **Underground Adventure** exhibit, which is currently being developed in collaboration with the Education Department and an outside vendor. In addition, the entire site is undergoing a complete re-design to make it more efficient for users and to incorporate the new Museum identity. A companion Web site for the **Sounds from the Vault** temporary exhibition is also being developed which will allow Web visitors to play musical instruments from our collection online.

## TRAINING PROGRAMS, 1998

The Field Museum provided a broad range of formal and hands-on training in collections-based research to high school, undergraduate and graduate students and young professionals during the past year. Building on the Museum's core subject matter in cultural understanding and change, and evolutionary and environmental biology, these programs meet a variety of needs—from encouraging young students to consider a career in the sciences; providing training to minority and women undergraduates—two groups under-represented in the sciences; to training young professionals from developing countries so they may have a greater impact on conservation programs at home. The synopsis below provides an overview of 1998 training activities.

### HIGH SCHOOL INTERNSHIPS

**Biodiversity Explorers Internship Program.** This internship program, funded by the Hyndman Scholarship Fund and the Bannerman Foundation, is designed to encourage high school students to consider the biological sciences as a career. The eight-week summer program introduces students to the Museum, environmental biology and collections-based research through a program of field work, laboratory work, lectures and “behind-the-scenes” museum tours. This year, the fourth year of the program, five exceptional students joined the Museum's local survey program of the macro-fungi (mushrooms) of the Chicago area. The students went on collecting field trips three times a week to survey plots set up in the Indiana Dunes and the Chicago Forest Preserves. Two days a week they processed specimens for the collections and entered their data into the Museum's computer database. This year's Biodiversity Explorers were juniors from Brother Rice High School, Seton Academy, Cristo Rey High School, Senn Metro Academy (all Chicago), and Prospect High School, Mt. Prospect.

**Wood Internship.** This summer internship provides support for one Chicago area high school student. Funded by a new endowment, this program allows one junior or senior high school student to work in the collections area of his or her choice. This year's intern assisted with the Department of Botany's fungal survey program.

**Other High School Interns.** During 1998, 13 other students from the Chicago area and beyond assisted with research and collection management projects in Anthropology, Botany, Geology, and Zoology.

**The Junior Earth Team.** The Junior Earth Team educates high school students from underserved areas in Chicago about the natural history of the Chicago region and the biodiversity of our systems while exposing them to a wide variety of environmental careers. As part of a partnership between The Field Museum, Chicago Park District, U.S. Fish & Wildlife Service and Chicago Wilderness, the JET students are trained to teach younger students in ongoing summer park district environmental and outdoor programs, such as urban camping, nature camps, Park Kid and Stewardship Days. Teens are introduced to and investigate conservation issues in their local parks and create stewardship action projects. Chicago Wilderness partners provide internships and career development opportunities during the school year. In 1998, 50 teens participated in the summer program at five parks – Humbolt, Pulaski, Calumet, Jackson and Margate; 12 participated in internships and/or school year components and eight qualified for the “Meet the Wilderness” backpacking trip for five days in Colorado.

### UNDERGRADUATE PROGRAMS

**Field Museum Scholarship Committee Internships.** Each year The Field Museum supports three-month internships for undergraduate students and recent graduates to work directly with scientists at The Field Museum. This year internships were awarded to five students from University of Michigan, Northwestern University, Marian College (Indianapolis), Indiana University, and the University of Chicago. The interns' projects, which they formulate themselves, included research on the earliest

formed solids of the solar system, mammalian biodiversity, endangered insectivores and rodents in Tanzania, Swahili ethnohistory and ethnoarchaeology, and the origin of the Neolithic in China.

**Training for Undergraduates in Collections-Based Analyses of Biological Diversity.** This internship program is designed to train women and minorities in collections-based analysis of biological diversity and to assist them in going on to graduate school. Each student works closely with a Field Museum scientist, working with collection specimens and developing and conducting a research project that will culminate in a published research paper. With funding from the National Science Foundation, this four-year program is providing training for three cohorts of five undergraduate students to participate in two-year programs. 1998 interns attended the following area colleges: the University of Chicago, Roosevelt University, the University of Illinois at Chicago.

**Field Museum Native American Internship Program.** Since 1990 The Field Museum has offered internships for Native American students to work with the Museum's Native American collections. The interns learn different aspects of museum work (archives, records, collections), assist with the Museum's repatriation project, inventory individual tribal collections, and conduct research to respond to Museum collections. Two interns worked at the Museum in 1998. Whenever possible, interns work with materials from their respective tribes, which in 1998 included materials from the Museum's Hopi, Navajo, Southern Cheyenne, Pawnee, Oneida, Siletz, Athabaskan, Cheyenne River Sioux, Fort Peck Sioux, Sac and Fox Nation of Oklahoma and White Mountain Apache collections.

**Prince Visiting Scholars Fund.** This Fund provides support to recruit and train women and minority interns at the secondary and college levels. During summer 1998 two interns (University of Illinois – Chicago and Haverford College) worked with the Center for Cultural Understanding and Change (CCUC) on a variety of projects, and another conducted research on mammal diversity in Utah (University of Chicago).

**Other Undergraduate Internships.** In **Anthropology/CCUC** 42 undergraduate interns worked on a variety of paid or for-credit projects, ranging from training in collection management and conservation techniques, to research on the archaeology of the U.S. Southwest, to urban anthropology research. **Botany** hosted three students on Botany collections projects during 1998. One, a student from the University of Illinois at Chicago, helped develop computerized databases for fern tissues/DNA, on a grant-funded project. The others worked on the lichen collection, and the pteridophyte collection (Purdue University and University of Illinois at Chicago, resp.). Seven undergraduates worked on **Geology** collections or research projects, supported by grant funding. They were students at University of Chicago, Harold Washington College, University of Michigan, and the University of Minnesota. In **Zoology**, seven students worked on a variety of collections and research projects supported by grant or department funds. The interns were students from the University of California – Berkeley, University of Illinois at Chicago, Northeastern Illinois University, Boston University, Coleccion Boliviana de Fauna (La Paz, Bolivia) and Hanover College, Hanover, IN, among others. In the **Office of Environmental and Conservation Program Internships** four undergraduates (from the University of Chicago, Illinois State University, and the University of St. Francis, Joliet), funded by the Illinois Department of Natural Resources, worked on spider and insect-related projects, including identification of spiders from Swallow Cliff Woods, creation of Spider Field Guides, and research.

## **PROFESSIONAL OR GRADUATE PROGRAMS**

**Conservation Training Consortium (CTC).** This collaborative effort between The Field Museum, Brookfield Zoo, and the University of Illinois at Chicago, funded by the MacArthur Foundation, provides intensive training in conservation biology for young faculty or conservation leaders from developing countries, especially in the tropics. The goal is to train the conservation leaders of tropical countries, who will be able to put into immediate practice their newly gained experience and expertise. This consortium grew out of its successful predecessor, the Advanced Training Program for Conservation Biology. Since 1994, 57 ATP/CTC participants from 29 countries have acquired the tools necessary for assessing biological diversity and have become better equipped to help establish conservation

programs and direct biodiversity policies in their own countries. The first training program with an aquatic focus was conducted in 1998.

**Environmental and Conservation Programs—Rapid Reference Herbarium Trainees.** With the guidance of Field Museum scientists, a group of young researchers from Latin America utilized the Rapid Reference Herbarium to develop field guides to the flora of certain regions within their own countries. The scientists came from the Universidad Nacional San Marcos, Lima, Peru, the University of Panama, the Herbario Amazonico Colombiano, the Universidad Catolica de Ecuador, Plan Agroforestal in Sucre, Bolivia, and the Fundacion Puerto Rastrojo, Bogota, Colombia.

**Ecology Training Program.** The Field Museum and World Wildlife Fund (WWF) Madagascar are joint collaborators in a training program for Malagasy students that provides field and classroom training in the biological sciences through a program of research field trips in Madagascar, seminars at the Université d'Antananarivo, and collections work at the Museum.

**The Committee on Evolutionary Biology (CEB).** This doctoral-degree granting program within the division of Biological Sciences at the University of Chicago is a collaboration among the University of Chicago, The Field Museum, Brookfield Zoo, and Argonne National Laboratory. It trains doctoral students for research and teaching careers in evolutionary biology. Field Museum curators are actively involved in the Committee on Evolutionary Biology graduate training program and make up the largest number of CEB faculty, comprising nearly half of its faculty.

**Resident Graduate Students.** Field Museum scientists lend their expertise to both undergraduate and graduate instruction at area universities. Many Field Museum staff taught undergraduate courses and graduate seminars during 1998, and also participated extensively as graduate student advisors and committee members. In 1998 The Field Museum provided training in collections-based research to 70 resident graduate students attending the University of Chicago, the University of Illinois at Chicago, Northern Illinois University, Roosevelt University, Governors State University, and the University of Oxford.

**PUBLICATIONS, 1998**  
(publications with 1998 dates--excluding abstracts)

**DEPARTMENT OF ANTHROPOLOGY**

**Ben Bronson**

and C. M. Kusimba. Comment on recommendations of working group 1 and 2 by African museum professionals at the 1997 ICOM meeting in Amsterdam. *Anthropology Newsletter* 19: 45.

**Winifred Creamer**

and J. Haas. Less than meets the eye: Evidence for protohistoric chiefdoms in northern New Mexico. In *Chiefdoms and chieftaincy in the Americas*, ed. Elsa M. Redmond, 43-67. Gainesville: University of Florida Press.

Native americans, museums, and NAGPRA: Clash and collaboration. *Faculty Bulletin: Northern Illinois University* 61: 47-53.

and J. Haas. Pueblo political organization in 1500: Tinkering with diversity. *Santa Fe Institute Working Papers* 98-11-095.

**William Grewe-Mullins**

Specimen care and handling 101. *Registrar's Quarterly - Western Region*, Fall 1998: 12.

**Jonathan Haas**

A brief consideration of cultural evolution: Stages, agents and tinkering. *Complexity* 3: 12-21.

Review of *Cowboys and Cavedwellers: Basketmaker Archaeology in Utah's Grand Gulch*, by Fred M. Blackburn and Ray A. Williamson. *Museum Anthropology* 22: 70-71.

and W. Creamer. Less than meets the eye: Evidence for protohistoric chiefdoms in northern New Mexico. In *Chiefdoms and chieftaincy in the Americas*, ed. Elsa M. Redmond, 43-67. Gainesville: University of Florida Press.

and W. Creamer. Pueblo political organization in 1500: Tinkering with diversity. *Santa Fe Institute Working Papers* 98-11-095.

Warfare and the evolution of culture. *Santa Fe Institute Working Papers* 98-10-088.

**Chuimei Ho**

Food for an 18<sup>th</sup>-century emperor: Qianlong and his entourage. In *Life in the imperial court of Qing Dynasty China*, eds. C. Ho and C. A. Jones, 73-94. Denver: Denver Museum of Natural History.

and C. A. Jones, ed. *Life in the imperial court of Qing Dynasty China*. Denver: Denver Museum of Natural History.

**Chapurukha M. Kusimba**

A time traveler in Kenya. In *Archaeology* 98/99, ed. L. L. Hasten, 152-156. Guilford: Dushkin/McGraw Hill.

and B. Bronson. Comment on recommendations of working group 1 and 2 by African museum professionals at the 1997 ICOM meeting in Amsterdam. *Anthropology Newsletter* 19: 45.

and J. C. Kerbis Peterhans, T. P. Gnoske, S. Andanje, and B. D. Patterson. Man-eaters of Tsavo. *Natural History*, November, 12-14.

and J. Terrell, J. Hines, T. Hunt, and C. Lipo. Language steamrollers. *Nature* 391: 547.

**Stephen E. Nash**

Review of *A Slice Through Time: Precision Dating and Archaeology*, by M. G. L. Baillie. *Geoarchaeology* 13: 426-428.

Time for collaboration: A. E. Douglass, archaeologist, and the establishment of tree-ring dating in the American southwest. *Journal of the Southwest* 40: 261-305.

**David Reese**

Fauna from late cypriote wells and pits, In *The Wells (Hala Sultan Tekke 10)*, P. Astom SIMA XLV:10 Paul Astroms Forlag, Jonsered. 136-139.

A hippopotamus tooth from Hala Sultan Tekke, Cyprus. In *The Wells (Hala Sultan Tekke 10)* P. Astrom SIMA XLV: 10, Paul Astroms Forlag, Jonsered. 140-146.

The animal bones and shells. In *Ancient Naukratis: Excavations at a Greek emporium in Egypt I—The excavations at Kom Geif*, ed. A. Leonard, Jr. The Annual of the American Schools of Oriental Research, Vol. 54.

The faunal remains. In *Excavations on the Acropolis of Midea. Results of the Greek-Swedish excavations under the direction of Katie Demakopoulou and Paul Astom I Excavations on the lower terraces 1985-1991*, G. Walberg Stockholm: Skrifter utgivna av Svenska Institutet i Athen.

Middle paleolithic shells from Ras el-Kelb, In *The Mousterian site of Ras el-kelb, Lebanon*, eds. L. Copeland and N. Moloney, 706: 67. B. A. R. Oxford, Int. Ser.

The faunal remains, buildings AC and AJ. In *Pseira II building AC (The Shrine) and other buildings in area A*, eds. P. P. Betancourt and C. Davaris, 35-36, 92. Philadelphia, The University Museum.

Shells. In *The Greek-Swedish excavations at the Agia Aikaterini Square, Kastelli, Khandia, 1970-1987 I/1 From the geometric to the modern period*, eds. E. Hallager and B. P. Hallager. Stockholm: Skrifter utgivna av Svenska Institutet i Athen.

Shells. In *Excavations at Khirbet Khatuniyeh*, eds. J. Curtis and A. Green. London: British Museum Press, 108.

Review of *Fishing in the Prehistoric, Aegean* by J. Powell. *American Journal of Archaeology*.

**Anna C. Roosevelt**

Ancient and modern hunter-gatherers of lowland South America: an evolutionary problem. In *Advances in Historical Ecology*, ed. W. Balee, 190-212. New York: Columbia University.

Paleoindian and archaic occupations in the lower amazon. In *Festschrift Honoring Wesley Hurt*, ed. Mark Plew, 165-192. Lanham: University Press of America.

And Mary Ellen Marbeck and Mary Catherine Bateson. Lita Osmundsen (1926 – 1998). *American Anthropologist* 100: 753-759.

**Catherine Sease**

Codes of ethics for conservation. *International Journal of Cultural Property* 7: 98-115.

**John Edward Terrell**

The prehistoric Pacific. *Archaeology*, November/December, 51: 56-63.



30,000 years of culture contact in the Southwest Pacific. In *Studies in Culture Contact: Interaction, Culture Change, and Archaeology*, ed. James G. Cusick, 191-219. 12<sup>th</sup> Annual Visiting Scholar Conference, Center of Archaeological Investigations. Occasional Paper no. 25. Carbondale: University of Southern Illinois.

and R. Welsch. Material culture, social fields, and social boundaries. In *Technical choices and social boundaries in material culture patterning*, ed. Miriam Stark, 50-77. Washington, DC: Smithsonian Institution Press.

and J. Hines, T. L. Hunt, C. M. Kusimba, and C. Lipo. Language steamrollers. *Nature* 391: 547.

Lapita for winners: Getting off the Lapita merry-go-round and living without compulsive habits. *Le pacifique de 5000 a 2000 avant le present. Supplements l'histoire d'une colonisation. The Pacific from 5000 to 200 BP. Colonisation and transformations*, ed. Jean Christophe Galipaud et Ian Lilley. Actes du colloque Vanuatu, 31 Juillet-6 Aout 1996. Paris: Editions de l'ORSTOM.

Review of *The Lapita Peoples: Ancestors of the Oceanic World*, by Patrick V. Kirch. *Journal of the Polynesian society* 107: 94-96

Review of *Conceptual Issues in Modern Human Origin Research*, eds. G. A. Clark and C. M. Willermet, 73: 543-544. *Quarterly Review of Biology*.

Review of *How chiefs come to power: The political economy in prehistory*, by Timothy Earle. *Journal of Anthropological Research* 54: 550-552.

#### **James W. VanStone**

*Mesquakie (Fox) material culture: The William Jones and Frederick Starr collections*. *Fieldiana: Anthropology*, n. s., 30. Chicago: Field Museum of Natural History.

#### **Alaka Wali**

Battling Infant Mortality Rates in Harlem. *In the Field* 69: 1, 4.

Public Advocacy and the Environment: The Role of Museums. *Advocating the Environment. Annual Meetings of the Society for Applied Anthropology* April, 1998.

Curator's Message. World Wide Web site at URL: <<http://www.fmnh.org./exhibits/living-together/curator.html>>

#### **Robert L. Welsch**

*An American anthropologist in Melanesia: A. B. Lewis and the Joseph N. Field South Pacific expedition 1909-1913*. Two volumes. Honolulu: University of Hawaii Press.

and J. Terrell. Material culture, social fields, and social boundaries. In *Technical choices and social boundaries in material culture patterning*, ed. Miriam Stark, 50-77. Washington, DC: Smithsonian Institution Press.

### **DEPARTMENT OF BOTANY**

#### **Fred R. Barrie**

Proposals to amend the code and report of the special committee on lectotypification. *Taxon* 47: 881-889.

#### **William C. Burger**

The question of cotyledon homology in angiosperms. *Botanical Review* 64: 356-371.

**Michael O. Dillon**

and A. Sagástegui A. Una nueva especie de *Critoniopsis* (Vernonieae: Asteraceae) de Cajamarca, Perú. *Arnaldoa* 5: 19-24.

and A. Sagástegui A. Una breve revisión del género *Vernonia* (sensu lato) del Perú. *Arnaldoa* 5: 25-33.

and A. Sagástegui A. Una nueva especie de *Chrysophyllum* (Sapotaceae) con frutos comestibles del noroeste de Perú. *Arnaldoa* 5: 67-75.

and P. Rundel. Ecological patterns in the Bromeliaceae of the lomas formations of Coastal Chile and Peru. *Plant Systematics and Evolution* 212: 261-278.

Andean Botanical Information System (Version 3.0). World Wide Web site at URL:  
<<http://www.sacha.org>>

**Andrew Douglas**

Proteaceae: Natural history and fashionable cult status. *Australian Journal of Botany* 46(3-4), Preface.

and S. B. Hoot. Phylogeny of the Proteaceae based on atpB and atpB/rbcL intergenic spacer region sequences. *Australian Systematic Botany* 11: 301-320.

Proteaceae: Natural history and fashionable cult status. *Australian Systematic Botany* 11, Preface.

and H. M. Stace and J. F. Sampson. Did 'paleo-polyploidy' really occur in Proteaceae? *Australian Systematic Botany* 11: 613-629.

**John J. Engel**

and G. Merrill. Austral Hepaticae XXV. *Krunodiplophyllum* Grolle and a revision of the Australasian species of *Diplophyllum* (Dum.) Dum. (Scapaniaceae, Jungermanniales). *Journal of the Hattori Botanical Laboratory* 84: 241-283.

and J. Braggins. Austral Hepaticae. 27. The genus *Anastrophyllum* (Spruce) Steph. (Jungermanniales) in Australasia, with a synopsis of Austral taxa. *Journal of Bryology* 20: 371-388.

Studies on Geocalycaceae (Hepaticae) X. New taxa and new combinations in *Chiloscyphus* Corda for Australasia. *Phytologia* 83: 42-46.

**Fernando Fernández**

and S. Huhndorf. Neotropical Ascomycetes 7. *Caudatispora biapiculatis* sp. nov. from Puerto Rico. *Sydowia* 50: 200-204.

**Robin B. Foster**

(See Enviromental and Conservation Programs)

**Nancy Hensold**

Eriocaulaceae. In *Prodromus Florae Matogrossensis*, ed. B. Dubs, 92-94. The Botany of Mato Grosse, ser. B, No. 3. Kusunächt, Switzerland: Betrona Verlag.

Erythroxyllaceae. In *Prodromus Florae Matogrossensis*, ed. B. Dubs, 94-97. The Botany of Mato Grosse, ser. B, No. 3. Kusunächt, Switzerland: Betrona Verlag.

**Sabine M. Huhndorf**

Neotropical Ascomycetes 6. A new species of *Ostropella* from French Guiana. *Mycologia* 90: 527-530.

and D. J. Lodge. Host specificity among wood inhabiting pyrenomycetes (Fungi, Ascomycetes) in a wet tropical forest in Puerto Rico. *Tropical Ecology* 38: 307-315.

and F. Fernández. Neotropical Ascomycetes 7. *Caudatispora biapiculatis* sp. nov. from Puerto Rico. *Sydowia* 50: 200-204.

Studies in the Lasiosphaeriaceae. World Wide Web site at URL:  
<[http://www.fmnh.org./candr/botany/botany\\_sites/ascomycete/peetwebpages/peetttitle.htm](http://www.fmnh.org./candr/botany/botany_sites/ascomycete/peetwebpages/peetttitle.htm)>

#### **Thomas G. Lammers**

Review of the Neotropical endemics *Burmeistera*, *Centropogon*, and *Siphocampylus* (Campanulaceae: Lobelioideae), with description of 18 new species and a new section. *Brittonia* 50: 233-262.

New names and new combinations in Campanulaceae. *Novon* 8: 31-35.

A new subfamily of Campanulaceae. *Novon* 8: 36-37.

Campanulaceae, Sphenocleaceae. In *Flora of Taiwan*, ed. 2, vol. 4, ed. T. C. Huang. Taipei: Editorial Committee of the Flora of Taiwan.

and P. J. M. Maas. First report of the genus *Burmeistera* (Campanulaceae) from Honduras. *Sida* 18: 363-364.

and C. I. Peng. *Triodanis* Raf. (Campanulaceae: Campanuloideae), a new generic record for the flora of Taiwan. *Botanical Bulletin of Academia Sinica* 39: 213-216.

and C. Niezgoda and N. Alaks. The Timothy C. Plowman Economic Botany Collection, Field Museum of Natural History. *Public Garden* 13: 41-43.

#### **Gary L. Smith Merrill**

and J. Engel. Austral Hepaticae XXV. *Krunodiplophyllum* Grolle and a revision of the Australasian species of *Diplophyllum* (Dum.) Dum. (Scapaniaceae, Jungermanniales). *Journal of the Hattori Botanical Laboratory* 84: 241-283.

and J. Hyvónen, T. Hedderson, J. G. Gibbons, S. Koskinen. On phylogeny of the Polytrichales. *Bryologist* 101: 489-504.

#### **Gregory M. Mueller**

and D. M. Aruguete and J. H. Aldstadt. Accumulation of several heavy metals and lanthanides in mushrooms (Agaricales) from the Chicago region. *The Science of the Total Environment* 224: 43-56.

and C. B. Fischbein and S. E. Aks. Mushrooms, toxic (group I) cyclopeptides. Mushrooms, toxic (group II) monomethylhydrazines.... Mushrooms, toxic (group VIII) renal toxic. In *Poisoning and toxicology compendium with symptoms index*, eds. J. B. Leikin and F. P. Paloucek, 805-808. Hudson (Cleveland), Ohio: Lexi-Comp Inc.

and C. B. Fischbein and S. E. Aks. Approach to mushroom poisoning. In *Poisoning and toxicology compendium with symptoms index*, eds. J. B. Leikin and F. P. Paloucek, 769-771. Hudson (Cleveland), Ohio: Lexi-Comp Inc.

and Q.-X. Wu. Review of *Fungi of China* by S. C. Teng, ed. R. P. Korf. *Mycologia* 90: 1091-1092.

and R. E. Halling and M. J. Dallwitz. *Leccinum* and *Phylloporus* in Costa Rica: Descriptions, illustrations, identification and information retrieval. World Wide Web site at URL: <<http://www.nybg.org/bsci/res/hall/deltaindex.html>>

#### **Christine Niezgoda**

and T. Lammers and N. Alaks. The Timothy C. Plowman Economic Botany Collection, Field Museum of Natural History. *Public Garden* 13: 41-43.

**Kathleen M. Pryer**

and P. G. Wolf, A. R. Smith, and M. Hasebe. Phylogenetic studies of extant pteridophytes. In *Molecular systematics of plants II: DNA sequencing*, eds. P. S. Soltis, D. E. Soltis, and J. J. Doyle, 541-556. Boston: Kluwer Academic Publishers.

**Jacinto C. Regalado, Jr.**

and L. R. Heaney. *Vanishing treasures of the Philippine rain forest*. Chicago: The Field Museum.

**Djaja Djendoel Soejarto**

and T. C. McKee, C. D. Covington, R. W. Fuller, H. R. Bokesch, S. Young, J. H. Cardellina II, M. R. Kadushin, P. F. Stevens, G. M. Cragg and M. R. Boyd. Pyranocoumarins from tropical species of the genus *Calophyllum*: A chemotaxonomic study of extracts in the National Cancer Institute collection. *Journal of Natural Products* 61: 1252-1256.

and A. D. Kinghorn, N. Kaneda, N. I. Baek, and E. J. Kimmelly. Noncarcinogenic intense natural sweeteners. *Medical Research Review* 18: 347-360.

**Laura Torres**

Guia Practica para las Plantas Vasculares del Cerro Patamban, Michoacan, Mexico (reference collection project).

**Quixin Wu**

and G. M. Mueller. Review of *Fungi of China* by S. C. Teng, ed. R. P. Korf. *Mycologia* 90: 1091-1092.

**DEPARTMENT OF GEOLOGY**

**Paul Brinkman**

Review of *Discovering dinosaurs in the old west: the field journals of Arthur Lakes*. *Archives of Natural History* 25: 451-452.

**Gregory A. Buckley**

and D. W. Krause, C. A. Forster, S. Sampson, M. Gottfried. Vertebrate fossils from the Late Cretaceous of Madagascar: Implications for the plate tectonic and biogeographic history of Gondwana. 10th Gondwana Symposium, Capetown, South Africa.

**Peter R. Crane**

and S. B. Hoot, J. W. Kadereit, F. R. Blattner, K. B. Jork, A. Swarzbach. The phylogeny of the Papaveraceae s.l. based on four data sets: atpB and rbcL sequences, trnK restriction sites, and morphological characters. *Systematic Botany* 22: 575-590.

Review of Angiosperm origins: morphological and ecological aspects, by V. A. Krassilov. *Plant Science Bulletin* 44: 124.

and H. J. Sims, P. S. Herendeen. A new genus of fossil Fagaceae from the Campanian (Late Cretaceous) of central Georgia, U.S.A. *International Journal of Plant Sciences* 159: 391-404.

and A. S. Konopka, P. S. Herendeen. Sporophytes and gametophytes of Dicranaceae from the Campanian (Late Cretaceous) of Georgia, USA. *American Journal of Botany* 85: 714-723.

and Y-L Qiu, M. W. Chase, S. B. Hoot, E. Conti, K. J. Systma, C. R. Parks. Phylogenetics of the Hamamelidae and their allies: parsimony analyses of nucleotide sequences of the plastid gene rbcL. *International Journal of Plant Sciences* 159: 891-905.

and R. M. Bateman, W. A. DiMichele, P. Kenrick, N. P. Rowe, T. Speck, W. E. Stein. Early evolution of land plants: Phylogeny, physiology and ecology of the primary terrestrial radiation. *Annual Reviews of Ecology and Systematics* 29: 263-292.

The phylogenetic position and fossil history of the Magnoliaceae. In *Magnolias and their allies*, ed. D. Hunt, 21-36. Milbourne Post.

### **John J. Flynn**

and M. A. Nedbal. Do the combined effects of the asymmetric process of replication and DNA damage from oxygen radicals produce a mutation-rate signature in the mitochondrial genome? *Molecular Biology and Evolution* 15: 219-223.

Early Cenozoic Carnivora ("Miacoidea"). In *Evolution of Tertiary mammals of North America (Vol. 1: Terrestrial carnivores, ungulates, and ungulatelike mammals)*, ed. C. M. Janis, K. M. Scott, and L. L. Jacobs, 110-123. Cambridge Univ. Press.

and C. M. Janis, J. A. Baskin, A. Berta, G. F. Gunnell, R. M. Hunt Jr., L. D. Martin, K. Munthe. Carnivorous mammals. In *Evolution of Tertiary mammals of North America, Vol. 1: Terrestrial carnivores, ungulates, and ungulatelike mammals*, 73-90. Cambridge Univ. Press.

and M. A. Nedbal. Phylogeny of the Carnivora (Mammalia): congruence vs incompatibility among multiple data sets. *Molecular Phylogenetics and Evolution* (special symposium volume) 9: 414-426.

and A. R. Wyss. Recent advances in South American mammalian paleontology. *Trends in Ecology and Evolution (TREE)* 13: 449-454.

and L. Tauxe. Magnetostratigraphy of Late Paleocene-Early Eocene marine and terrestrial sequences. In *Late Paleocene-Early Eocene climatic and biotic events in the marine and terrestrial records*, ed. M.-P. Aubry, S. G. Lucas, and W. A. Berggren, 67-90, Chap. 4. Columbia Univ. Press.

### **Lance Grande**

Locked in stone: an extinct 50-million-year-old lake system. *Natural History Magazine* 107: 66-69.

Colin Patterson, Ph.D., F.R.S., 1933-1997. *Society of Vertebrate Paleontology News Bulletin* 174: 78-81.

and W. E. Bemis. A comprehensive phylogenetic study of amiid fishes (Amiidae) based on comparative skeletal anatomy. *Society of Vertebrate Paleontology Memoir* 4:i-x, 1-690, supplement to *Journal of Vertebrate Paleontology* 18.

and M. de Pinna. Description of a second species of the catfish *Hypsidoris* and a reevaluation of the genus and the family Hypsidoridae. *Journal of Vertebrate Paleontology* 18: 451-474.

and P. Forey. An African twin to the Brazilian *Calamopleurus* (Actinopterygii: Amiidae). *Zoological Journal of the Linnean Society* 123: 179-195.

and O. Rieppel. A well-preserved fossil amphiumid (Lissamphibia: Caudata) from the Eocene Green River Formation of Wyoming. *Journal of Vertebrate Paleontology* 18: 700-708.

### **Steven J. Hageman**

and P. E. Bock, Y. Bone, B. McGowran. Bryozoan growth habits: classification and analysis. *Journal of Paleontology* 72: 418-436.

### **Scott Lidgard**

and F. K. Mc Kinney, J. J. Sepkoski, Jr., P. D. Taylor. Decoupled temporal patterns of evolution and ecology in two post-Paleozoic clades. *Science* 281: 807-809.

**Michael Nedbal**

and J. J. Flynn. Do the combined effects of the asymmetric process of replication and DNA damage from oxygen radicals produce a mutation-rate signature in the mitochondrial genome? *Molecular Biology and Evolution* 15: 219-223.

and J. J. Flynn. Phylogeny of the Carnivora (Mammalia): congruence vs. incompatibility among multiple data sets. *Molecular Phylogenetics and Evolution* (special symposium volume) 9: 414-426.

**Olivier C. Rieppel**

*The status of the sauropterygian reptile genera Ceresiosaurus, Lariosaurus and Silvestrosaurus from the Middle Triassic of Europe.* Fieldiana: Geology, n.s. 38. Chicago: Field Museum of Natural History.

The status of *Shingyisaurus unexpectus* from the Middle Triassic of Kweichou, China. *Journal of Vertebrate Paleontology* 18: 541-544.

The systematic status of *Hanosaurus hupehensis* (Reptilia, Sauropterygia) from the Triassic of China. *Journal of Vertebrate Paleontology* 18: 545-557.

*Corosaurus alcovovensis* Case, and the phylogenetic interrelationships of Triassic stem-group Sauropterygia. *Zoological Journal of the Linnean Society, London* 124: 1-41.

Ichthyosaur remains (Reptilia, Ichthyosauria) from the Middle Triassic of Makhtesh Ramon, Negev, Israel. *Neues Jahrbuch für Geologie und Paläontologie, Mh.* 1998 (9): 537-544.

and L. Grande. A well-preserved fossil amphiumid (Lissamphibia: Caudata) from the Eocene Green River Formation of Wyoming. *Journal of Vertebrate Paleontology* 18: 700-708.

and H. Hagdorn. Fossil Reptiles from the Spanish Muschelkalk (Mont-ral and Alcover, Province Tarragona). *Historical Biology* 13: 77-97.

and K. Lin. Functional morphology and ontogeny of *Keichousaurus hui* (Reptilia, Sauropterygia). Fieldiana: Geology, n.s. 39. Chicago: Field Museum of Natural History.

and R. Werneburg. A new species of the sauropterygian *Cymatosaurus* from the lower Muschelkalk of Thuringia, Germany. *Palaeontology* 41: 575-589.

**William D. Turnbull**

Review of *Tooth enamel microstructure*, ed. by W. Von Koenigswald and P. M. Sander. *Palaeontology, Palaeoclimatology, Palaeoecology* 139: 101-104.

**Meenakshi Wadhwa**

and G. Crozaz, L. A. Taylor, H. Y. McSween, Jr. Martian basalt (shergottite) QUE94201 and lunar basalt 15555: A tale of two pyroxenes. *Meteoritics and Planetary Science* 33: 321-328.

and G. Crozaz. The igneous crystallization history of an ancient martian meteorite from rare earth elements. *Meteoritics and Planetary Science* 33: 321-328.

**Peter Wagner**

A likelihood approach for estimating phylogenetic relationships among fossil taxa. *Paleobiology* 24: 430-449.

Phylogenetic analyses and the quality of the fossil record. In *The adequacy of the fossil record*, ed. R. C. Paul and S. K. Donovan, 163-185. New York: Wiley.

## DEPARTMENT OF ZOOLOGY

### **J. William O. Ballard**

Evolutionary rate variation within the mitochondrial DNA of *Drosophila simulans*. Proceedings of the 1997 U.S./Germany/Japan TriNational Workshop of Molecular Evolution, Munich, Germany. *Current Topics of Molecular Evolution* 25-26.

and M. K. Thayer, A. F. Newton, E. R. Grismer. Data sets, partitions and characters: Philosophies and procedures for analyzing multiple data sets. *Systematic Biology* 47: 367-396.

and R. A. Brust, F. Driver, D. M. Hartley, N. J. Galway, J. Curran. Molecular systematics and hybrid crossing identify a third taxon, *Aedes (Halaedes) wardangensis* sp.n., of the *Aedes (Halaedes) australis* species group (Diptera: Culicidae). *Canadian Journal of Zoology* 76:1236-1246.

### **John M. Bates**

and S. J. Hackett, J. Cracraft. Area-relationships in the Neotropical lowlands: A hypothesis based on raw distributions of Passerine birds. *Journal of Biogeography* 25: 783-793.

D. F. Stotz, and T. S. Schulenberg. Avifauna of Parque Nacional Noel Kempff Mercado. In *A Biological Assessment of Parque Nacional Noel Kempff Mercado, Bolivia*, eds. T. J. Killeen and T. S. Schulenberg, 120-128. Washington, DC: Conservation International.

and T. A. Parker, III. The avifauna of Parque Nacional Noel Kempff Mercado and surrounding areas. In *A Biological Assessment of Parque Nacional Noel Kempff Mercado, Bolivia, RAP Working papers 10*, ed. T. J. Killeen, 317-340. Washington, DC: Conservation International.

Review of *Handbook of Birds of the World, Volume 4 (Sandgrouse to Cuckoos)*, J. Del Hoyo, A. Elliot, J. Sargatal, eds. *Condor* 100: 769-775.

### **Rüdiger Bieler**

and A. D. Ball, P. M. Mikkelsen. Marine *Valvatoidea* – comments on anatomy and systematics with description of a new species from Florida (Heterobranchia: Cornirostridae). *Malacologia* 40: 305-320.

and P. M. Mikkelsen. *Ammonicera* in Florida – Notes on the smallest living gastropod in the United States and comments on other species of Omalogyridae (Heterobranchia). *The Nautilus* 111: 1-12.

and P. M. Mikkelsen, eds. *Abstracts of the World Congress of Malacology, Washington, DC, 25-30 July 1998*. 376. Field Museum, Chicago.

and P. M. Mikkelsen, eds. *Handbook of Systematic Malacology, Part 3 (Scaphopoda / Bivalvia / Cephalopoda)*. Smithsonian Institution Libraries (Annotated English-language edition of: Thiele, J., *Handbuch der systematischen Weichtierkunde, Teil 3*).

and P. M. Mikkelsen, eds. *Handbook of Systematic Malacology, Part 4 (Comparative Morphology / Phylogeny / Zoogeography)*. Smithsonian Institution Libraries (Annotated English-language edition of: Thiele, J., *Handbuch der systematischen Weichtierkunde, Teil 4*).

Non-marine Cerithioidea—recent work on Thiaridae and Melanopsidae—a review of Evolutionary ecology and systematics, based on the example of fresh- and brackish-water snails (Mollusca: Caenogastropoda: Cerithioidea): ontogenetic strategies, paleontological data, and historical zoogeography; by Matthias Glaubrecht, 1996. *The Veliger* 41: 371-372.

### **Barry Chernoff**

Biodiversity and conservation of aquatic ecosystems: Rapid assessment programs, establishing priorities and ethical considerations. In *Symposium on Biodiversity and Conservation*, ed. N. Castagnoli. Pan American Veterinary Congress XV, Proceedings, SV: 1-7, Brasil.

and A. Machado-Allison. *Bryconops disruptus* (Characiformes: Characidae), una nueva especie de la cuenca del Rio Negro en Brasil y Venezuela. *Acta Biologica Venezuelica* 17: 1-15.

**Thomas Gnoske**

and J. C. Kerbis Peterhans, C. M. Kusimba, S. Andanje, and B. D. Patterson. Man-eaters of Tsavo. *Natural History*, November, 12-14.

and D. E. Willard and R. Kityo. An elevational survey of the birds of the Mubuku and Bujuku River valleys, Rwenzori Mountains, Uganda. In *The Rwenzori Mountains National Park, Uganda*, eds. H. Osmaston, J. Tukahirwa, C. Basalirwa, J. Nyakaana. Kampala: Department of Geography, Makerere University.

**Steven M. Goodman**

and A. Andrianarimisa. Les oiseaux. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 157-181.

and D. Rakotondravony. Introduction. Dans Inventaire biologique, Forêt d'Andranomay, Anjozorobe, eds. D. Rakotondravony et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 13: 3-8.

and D. Rakotondravony. Les lémuriers. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 213-222.

D. Rakotondravony, L. E. Olson, E. Razafimahatratra, and V. Soarimalala. Les insectivores et les rongeurs. Dans Inventaire biologique, Forêt d'Andranomay, Anjozorobe, eds. D. Rakotondravony et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 13: 80-93.

and J. Ratsirarson. Conclusion. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 229-233.

L. A. Rene de Roland and Russell Thorstrom. Predation on the Eastern Woolly Lemur (*Avahi laniger*) and other vertebrates by Henst's Goshawk (*Accipiter henstii*). *Lemur News* 3: 14-15.

and R. Thorstrom. The diet of the Madagascar Red Owl (*Tyto soumagnei*) on the Masoala Peninsula, Madagascar. *Wilson Bulletin* 110: 417-421.

and W. Lourenço. Les scorpions. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 133-135.

and D. Rakotondravony. Breve description physique de la région de forêt d'Andranomay. Dans Inventaire biologique, Forêt d'Andranomay, Anjozorobe, eds. D. Rakotondravony et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 13: 9-14.

and D. Rakotondravony. Recommendations et conclusions. Dans Inventaire biologique, Forêt d'Andranomay, Anjozorobe, eds. D. Rakotondravony et S. M. Goodman. Centre d'Information et de



Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 13: 98-102.

D. Rakotondravony, J. M. Duplantier and V. Soarimalala. Les petits mammifères. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 197-212.

D. Rakotondravony and V. Soarimalala. Predation on *Hapalemur g. griseus* by *Boa manditra* (Boidae) in the littoral forest of eastern Madagascar. *Folia Primatologica* 69: 405-408.

and J. Ratsirarson, eds. Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana). Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14.

and J. Ratsirarson, Introduction. Dans Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana), eds. J. Ratsirarson et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 14: 7-17.

M. Ravokatra, and L. Wilmé Oiseaux. Dans Inventaire biologique, Forêt d'Andranomay, Anjozorobe, eds, D. Rakotondravony et S. M. Goodman. Centre d'Information et de Documentation Scientifique et Technique, Antananarivo, Recherches pour le Développement. *Série Sciences Biologiques* 13: 60-79.

and H. Schutz. Photographic evidence of *Allocebus trichotis* in the Réserve Spéciale d'Anjanaharibe-Sud. *Lemur News* 3: 21-22.

and J. M. Duplantier, P. J. Rakotomalaza, A. P. Raselimanana, R. Rasoloarison, M. Ravokatra, V. Soarimalala, and L. Wilmé. Inventaire biologique de la forêt d'Ankazomivady, Ambositra. *Akon'ny Ala* 24:19-32.

Editor. *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation*. Fieldiana: Zoology, n.s. 90. Chicago: Field Museum of Natural History.

Description of the 1994 biological inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation*. Fieldiana: Zoology, n.s. 90: 1-7. Chicago: Field Museum of Natural History.

and B. A. Lewis. Description of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation*. Fieldiana: Zoology, n.s. 90: 9-16. Chicago: Field Museum of Natural History.

and A. F. A. Hawkins, J. M. Tiollay. The birds of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation*. Fieldiana: Zoology, n.s. 90: 93-127. Chicago: Field Museum of Natural History.

and P. D. Jenkins. The insectivores of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation*. Fieldiana: Zoology, n.s. 90: 139-161. Chicago: Field Museum of Natural History.

and M. D. Carleton. New taxa of nesomyine rodents (*Muroidea: Muridae*) from Madagascar's northern highlands, with taxonomic comments on previously described forms. In *A floral and faunal inventory of*

*the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation. Fieldiana: Zoology*, n.s. 90: 163-200. Chicago: Field Museum of Natural History.

and M. D. Carleton. The rodents of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation. Fieldiana: Zoology*, n.s. 90: 201-221. Chicago: Field Museum of Natural History.

Notes on the bats of the Réserve Spéciale d'Anjanaharibe-Sud. In *A floral and faunal inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar, with reference to elevational variation. Fieldiana: Zoology*, n.s. 90: 223-226. Chicago: Field Museum of Natural History.

and P. P. Parrillo. A study of the diets of Malagasy birds based on stomach contents. *Ostrich* 68: 104-113.

and W. T. Stanley and P. M. Kihale. Results of two surveys of rodents in the Chome Forest Reserve, South Pare Mountains, Tanzania (Mammalia: Rodentia). *Zoologische Abhandlungen Staatliches Museum für Tierkunde Dresden* 50: 145-160.

#### **Shannon J. Hackett**

and J. M. Bates, J. Cracraft. Area relationships in the Neotropical lowlands: An hypothesis based on raw distributions of Passerine birds. *Journal of Biogeography* 25: 783-793.

#### **Lawrence R. Heaney**

and J. C. Regalado, Jr. *Vanishing Treasures of the Philippine Rain Forest*. Chicago: Field Museum of Natural History.

and D. S. Balete, L. Dolar, A. C. Alcala, A. Dans, P. C. Gonzales, N. Ingle, M. Lepiten, W. Oliver, E. A. Rickart, B. R. Tabaranza, Jr., and R. C. B. Uzzurum. A synopsis of the mammalian fauna of the Philippine Islands. *Fieldiana: Zoology* 88: 1-61.

and E. A. Rickart, D. S. Balete, and B. R. Tabaranza, Jr. A review of the genera *Crunomys* and *Archboldomys* (Rodentia, Muridae, Murinae) with descriptions of two new species from the Philippines. *Fieldiana: Zoology* 89: 1-24.

and G. G. Musser and B. R. Tabaranza, Jr. Philippine rodents: redefinition of known species of *Batomys* (Muridae, Murinae) and description of a new species from Dinagat Island, Philippines. *American Museum Novitates* 3237: 1-51.

#### **Philip Hershkovitz**

Report on some sigmodontine rodents collected in southeastern Brazil with descriptions of a new genus and six new species. *Bonner zoologische Beiträge* 47: 193-256.

#### **Robert F. Inger**

and M. Kottelat. A new species of ranid frog from Laos. *Raffles Bulletin of Zoology* 46: 29-34.

and M. Lakim. Rediscovery of the agamid lizard *Calotes kinabaluensis* deGrijs (Lacertilia: Agamidae) in Borneo, with notes on its Habitat. *Herpetological Review* 29: 143.

#### **Julian C. Kerbis Peterhans**

and C. M. Kusimba, T. P. Gnoske, S. Andanje, and B. D. Patterson. Man-eaters of Tsavo. *Natural History*, November, 12-14.

and R. M. Kityo, W. T. Stanley, and P. K. Austin. Small mammals along an elevational gradient in Rwenzori Mountains National Park, Uganda. In *The Rwenzori Mountains National Park, Uganda*:

*Exploration, Environment and Biology, Conservation, Management and Community Relations*, eds. H. Osmaston, C. Basalirwa and J. Nyakaana. 149-171.

**Alfred F. Newton**

and J. W. O. Ballard, M. K. Thayer, and E. R. Grismer. Data sets, partitions, and characters: Philosophies and procedures for analyzing multiple data sets. *Systematic Biology* 47: 367-396.

and H. Franz. World catalog of the genera of *Scydmaenidae* (Coleoptera). *Koleopterologische Rundschau* 68: 137-165.

**Philip P. Parrillo**

and S. M. Goodman. A study of the diets of Malagasy birds based on stomach contents. *Ostrich* 68: 104-113.

**Bruce D. Patterson**

and D. H. Wright, G. Mikkelson, A. H. Cutler, W. Atmar. A comparative analysis of nested subset patterns of species composition. *Oecologia* 113: 1-20.

Editorial – systematics and neotropical diversity. *Mastozoología Neotropical* 4: 87.

More on systematics and neotropical diversity. *Mastozoología Neotropical* 4: 151-153.

and D. Stotz, S. Solari, J. Fitzpatrick, V. Pacheco. Contrasting patterns of elevational zonation of vertebrates in the Andes of southeastern Peru. *Journal of Biogeography* 125: 593-607.

and J. C. Kerbis Peterhans, T. P. Gnoske, S. Andanje, and C. M. Kusimba. Man-eaters of Tsavo. *Natural History*, November, 12-14.

Author David Quammen offers a sidelong view of science and Nature. *In The Field*, Nov/Dec:11.

**Alan Resetar**

Locating Historical Information on Amphibian Populations. In *Status and Conservation of Midwestern Amphibians*, ed. J. Lannoo. Univ. of Iowa Press.

**Petra Sierwald**

and N. Platnick and M. van der Merwe, eds. *Abstracts of the XIV International Congress of Arachnology*.

**William T. Stanley**

and S. M. Goodman and P. M. Kihale. Results of two surveys of rodents in the Chome Forest Reserve, South Pare Mountains, Tanzania (Mammalia: Rodentia). *Zoologische Abhandlungen Staatliches Museum für Tierkunde Dresden* 50: 145-160.

and J. C. Kerbis Peterhans, R. M. Kityo and P. K. Austin. Small mammals along an elevational gradient in Rwenzori Mountains National Park, Uganda. In *The Rwenzori Mountains National Park, Uganda: Exploration, environment and biology. Conservation, management and community relations*, eds. H. Osmaston, C. Basalirwa, J. Nyakaana, 149-171.

**Margaret K. Thayer**

and J. W. O. Ballard, A. F. Newton, and E. R. Grismer. Data Sets, partitions, and characters: Philosophies and procedures for analyzing multiple data sets. *Systematic Biology* 47: 367-396.

**Janet R. Voight**

An overview of shallow-water octopus biogeography. *Smithsonian Contributions to Zoology* 586 (Volume II): 549-559.

Geological mechanism for biotic extinctions at North Pacific deep-sea hydrothermal vents. *Supplement to EOS, Transactions American Geophysical Union* 79: F44.

**Harold K. Voris**

and W. B. Jeffries. Relative growth rates of the Capitulum and its plates. In *Octolasmis mulleri* (Cirripedia, Thoracica, Poecilasmatidae). *Journal of Crustacean Biology* 18: 695-699.

and J. C. Murphy, T. Chan-ard and K. Suwannarat. Kumpol's tree gecko, *Cnemaspis kumpoli* (Sauria: Gekkonidae) preyed upon by the white-spotted cat snake, *Boiga drapezeii* (Serpentes: Colubridae). *Natural History Bulletin of the Siam Society* 46: 468-469.

**Jeffery Walker**

Estimating velocities and accelerations of animal locomotion: A simulation experiment comparing numerical differentiation algorithms. *Journal of Experimental Biology* 201: 981-985.

**Mark W. Westneat**

Family *labridae*: A checklist of fishes of the South China Sea, eds. J. E. Randall and K. Lim. 1998 *ICLARM Publications*.

Vertebrates: Morphology, Function and Evolution. Review of Kardong, K. V. *Systematic Biology* 47: 762-763.

and M. E. Hale, M. J. McHenry, J. H. Long, Jr. Mechanics of the fast-start: muscle function and the role of intramuscular pressure in the escape behavior of *Amia calva* and *Polypterus palmas*. *J. Exp. Biol.* 201, 3041-3055.

and S. E. Swithers, W. G. Hall. Electromyographic analysis of oral habituation in rat pups. *Physiology and Behavior* 63: 197-221.

**David Willard**

and T. P. Gnoske and R. Kityo. An elevational survey of the birds of the Mubuku and Bujuku River valleys, Rwenzori Mountains, Uganda. In *The Rwenzori Mountains National Park, Uganda*, eds. H. Osmaston, J. Tukahirwa, C. Basalirwa, J. Nyakaana. Kampala: Department of Geography, Makerere University.

**ENVIRONMENTAL AND CONSERVATION PROGRAMS**

**Carol Fialkowski**

Some Perspectives on Japanese Education. *Adjunct Connection*. Volume 3, Issue 1.

Activities on Environmental Education at Museum in the U.S.: The Field Museum. *Report of U.S.-Japan Symposium on Environmental Learning with Effective Use of Museums*. Ibaraki Prefecture Education Board.

An Educator's Guide to Chicago Wilderness: Three Problem Based Paths for Exploring Biodiversity Issues in Your Own Backyard. The Field Museum.

**Robin B. Foster**

and E. Bermingham, A. Coates, G. Cruz D. L. Emmons, R. Leschen, G. Seutin, S. Thorn, W. Wcislo, and B. Werfel. Geology and terrestrial flora and fauna of Cayos Cochinos, Honduras. *Revista Biologia Tropical* 46: 15-37.

and R. Condit, S. P. Hubbell, R. Sukumar, E. G. Leigh, N. Manokaran, S. Loo de Lao, J. V. LaFrankie, and P. S. Ashton. Assessing forest diversity on small plots: calibration using species-individual curves from 50 ha plots. In *Forest Biodiversity Research, Monitoring and Modeling*, eds. F. Dallmeier and J. A.

Comiskey, 247-268. MAB Series Vol. 20, UNESCO, Paris, and Parthenon Publishing Group, N.Y.

and M. D. Lowman, P. Wittman, H. B. Rinker. Herbivory and insect loads on epiphytes, vines and host trees in the rain forest canopy of French Guiana. In *Biologie D'Une Canopée de Forêt Équatoriale*, ed. F. Halle, 116-128. Pro-Natura International, France.

and R. Condit, R. Sukumar, S. P. Hubbell. Predicting population trends from size distributions: a direct test in a tropical tree community. *The American Naturalist* 152: 495-509.

**Thomas S. Schulenberg**

and T. J. Killeen, eds. *A biological assessment of the Parque Nacional Noel Kempff Mercado, Bolivia*. RAP Working Papers 10. Washington, D.C.: Conservation International.

and J. M. Bates, and D. F. Stotz. Avifauna of Parque Nacional Noel Kempff Mercado. In *A biological assessment of Parque Nacional Noel Kempff Mercado, Bolivia*, eds. T. J. Killeen and T. S. Schulenberg, 112-128. RAP Working Paper no. 10. Washington, DC: Conservation International.

**Douglas F. Stotz**

and J. D. Brawn, S. K. Robinson, and W. D. Robinson. Research needs for the conservation of Neotropical birds. In *Avian conservation: Management and research*, eds. J. M. Marzluff and R. Sallabanks, 323-335. Washington, DC: Island Press.

Levantamento preliminar da avifauna em Roraima. In *Homem, ambiente e ecologia no estado de roraima*, eds. R. I. Barbosa, E. J. G. Ferreira, and E. G. Castellón, 581-608. Manaus, Brazil: Instituto Nacional de Pesquisas da Amazônia.

and B. D. Patterson, S. Solari, V. Pacheco, and J. W. Fitzpatrick. Contrasting patterns of elevational zonation of vertebrates in the Andes of Southeastern Peru. *Journal of Biogeography* 125: 593-607.

and J. M. Bates, and T. S. Schulenberg. Avifauna of Parque Nacional Noel Kempff Mercado. In *A biological assessment of Parque Nacional Noel Kempff Mercado, Bolivia*, eds. T. J. Killeen and T. S. Schulenberg, 112-128. RAP Working Paper no. 10. Washington, DC: Conservation International.













**MUSEUM AND PUBLIC SERVICE, 1998**  
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Editorial Board, *Systematic Biology*; Editorial Board, *Molecular Phylogenetics and Evolution*; Deputy Treasurer, International Association for Lichenology; Head, Pritzker Laboratory of Molecular Systematics and Evolution; Member, Scholarship Committee; Member, Pritzker Laboratory for Molecular Systematics and Evolution Management Committee; Co-convener, Sixth International Mycological Congress Symposium, Jerusalem, Israel; Member, Search Committee, Economic Botany; Member, Manager Search Committee, Pritzker Laboratory; Member, Search Committee, Computational Biologist.

**Gregory M. Mueller**

Chair, Department of Botany; Associate Editor, *Mycologia*; Editorial Board, *Mycotaxon*; Member, American Society of Plant Taxonomists Collections Committee; Member, University of Chicago Committee on Evolutionary Biology Graduate Student Admissions Committee; Member, Program Committee, XVI International Botanical Congress; Chair, Chicago Wilderness Proposal Committee; Member, Chicago Wilderness Science Team; Member, Illinois Rapid Assessment Program (IRAP) Team; Member, Illinois "UrbanWatch" Protocol Development Team; Contact for mushroom cases, Illinois Poison Control Center, Chicago; Scientific Advisor, Illinois Mycological Association; Chief Scientific Content Specialist, "Underground Adventure" Exhibit; Member, Environment Team, Strategic Planning Initiative; Steering Committee Member, Biodiversity Explorers Program; Head, Voucher Collection Committee, North American Mycological Association; Chair, Search Committee, Economic Botany.

**Christine Niezgoda**

Member, Search Committee, Economic Botany.

**Kathleen M. Pryer**

Member, Doctoral Dissertation Improvement Grants Systematic Biology Panel, National Science Foundation; Member, grant review panel, National Science Foundation; Member, Green Plant Phylogeny Research Coordination Group; Member, Search Committee, Economic Botany; Member, "Environmental Regulation of Biodiversity" NSF Training Grant Steering Committee, University of Chicago/CEB; Member, Pritzker Laboratory for Molecular Systematics and Evolution Management Committee; Member, Manager Search Committee, Pritzker Laboratory for Molecular Systematics; Member, Search Committee, Computational Biologist.

**Djaja Djendoel Soejarto**

Editor, *Journal of Ethnopharmacology*; Contributing Editor, *International Journal of Pharmacognosy*; Coordinator/Chairman, Symposium on Modern Ethnobotanical Approach in the Pharmacognostic Evaluation of Medicinal Plants, XV Brazilian Symposium on Medicinal Plants, Aguas de Lindoia, Sao Paulo, Brazil; Co-Coordinator, MacArthur Foundation Grantees Symposium, Hanoi, Vietnam; Advising, Atropa belladonna poisoning case, Mrs. Janice Martinez, Ferguson, Missouri; host visits of Dr. Lohi Matainaho, Department of Chemistry, University of Papua New Guinea, Port Moresby, PNG, and Dr. Tran Manh Tuan, Deputy Director, National Center for Science and Technology, Hanoi, Vietnam.

**Quixin Wu**

Member, Search Committee, Economic Botany.

**DEPARTMENT OF GEOLOGY**

**John Bolt**

Treasurer, Society of Vertebrate Paleontology; Chair, Host Committee, 1997 Society of Vertebrate Paleontology Annual Meeting; Member, Endowment Committee, Society of Systematic Biologists; Member, Science Advisory Council; Member, Ad-Hoc Bicycle Committee.

**Gregory A. Buckley**

Member, Personnel Committee.

**Peter R. Crane**

Vice President, Academic Affairs and Director; Associate Editor, *International Journal of Plant Sciences*; Editorial Board, *Review of Palaeobotany and Palynology*; Editorial Board, *Plant Systematics and Evolution*; Member, Board of Trustees, The Latin School, Chicago; Member, Review Committee for Biological Sciences, University of Massachusetts; President, Paleontological Society; Visiting Professor, University of Vienna; Visiting Professor, Kagawa University.

**John J. Flynn**

Chair, Department of Geology; Member, Academic Affairs Management Group; Associate Chair, Committee on Evolutionary Biology, University of Chicago; Chair, Executive Committee, NSF Biodiversity Training Grant, University of Chicago; President, Society of Vertebrate Paleontology; Specialty Coordinator (Vertebrates), International Geological Correlation Program, IGCP Project 308: "Paleocene/Eocene boundary events"; Organizing Committee and Vertebrate Paleontology topic coordinator, Paleontology in the 21<sup>st</sup> Century Project; Research Associate, American Museum of Natural History; Member, Review Committee, and Chair, Search Committee, Department of Organismal Biology and Anatomy, University of Chicago.

**Lance Grande**

Editorial Board Member, *Revista*; Associate Editor, *Journal of Vertebrate Paleontology*; Chair, Scholarship Committee; Member, Publications Committee; Member, Collections Advisory Council; Member, Committee on Fish Classification, American Society of Ichthyologists and Herpetologists.

**Scott Lidgard**

Chair, Science Advisory Council; Member, Academic Affairs Management Group; Member, Phanerozoic Marine Diversity Working Group, Nat. Center for Ecological Analysis and Synthesis.

**Steve McCarroll**

Member, Educational Assistance Committee.

**Clarita Nuñez**

Member and Volunteer, Philippine Exhibit Committee.

**Olivier Rieppel**

Associate Editor, *Zoological Journal of the Linnean Society*; Associate Editor, *Amphibia and Reptilia*; Founding Member and Member of Editorial Board, *Development and Evolution*; Member, Romer Prize Committee, Society of Vertebrate Paleontology; Member, Honorary Membership Committee, Society of Vertebrate Paleontology.

**William F. Simpson**

Maintain "Preparators' Directory," Society of Vertebrate Paleontology; Co-organizer, Vertebrate Paleontology Fund, Society for Vertebrate Paleontology.

**Meenakshi Wadhwa**

Member, NASA Cosmochemistry Program Review Panel (Group Chief, Geochemistry Group); Member, NASA Cosmochemistry Management Operations Working Group; Member, NASA Program Definition Team for the Laboratory Instrumentation for the Analysis of Returned Samples (LIFARS) Program; Chair, Meteorite Nomenclature Committee; Member, NASA-NSF-Smithsonian Meteorite Working Group; Member, Lunar and Planetary Science Program Committee; Member, Scholarship Committee.

**Peter J. Wagner**

Co-organizer, A. Warson Armour III Spring Symposium; Outside Member, Search Committee, Zoology Department.

## DEPARTMENT OF ZOOLOGY

### **J. William O. Ballard**

Member, Committee on Evolutionary Biology, University of Chicago; Panel Member, NSF.

### **John M. Bates**

Editorial Board, *Systematic Biology*; Co-organizer, A. Warson Armour III Spring Symposium; Member, Animal Care and Use Committee; Member, Pritzker Laboratory Management Committee; Member, Environmental Strategic Planning Committee.

### **Rüdiger Bieler**

President, *Unitas Malacologica* (International Society of Malacology); Past President on Council, American Malacological Union; President, Institute of Malacology; North American Editor, *Zoological Journal of the Linnean Society*; Editor-in-Chief, *Monographs of Marine Mollusca*; Scientific Editor, Smithsonian Institution Translations Publishing Program; Editorial Board Member, *Malacologia - International Journal of Malacology*, *Malacological Review*, *The Nautilus*, *American Malacological Bulletin*, *The Festivus*, *Iberus*, *The Yuriyagai*; Trustee and Chairman, Collections and Research Committee, Board of Directors, Delaware Museum of Natural History; Member, Committee on Evolutionary Biology, University of Chicago; Co-Organizer, World Congress of Malacology, Washington, DC; Co-Organizer, International Congress of Arachnology, Chicago; Chair, Department of Zoology; Staff group leader, Trustees Advisory Group; Search Committee Member (directorship), Delaware Museum of Natural History.

### **Barry Chernoff**

Chairman, U.S. National Committee for International Union of Biological Sciences, National Academy of Sciences/National Research Council; Chairman, Steering Committee AquaRAP; Chairman, Scientific Board of Directors, Sustainable Aquatic Resources Center; Board of Governors, American Society of Ichthyologists and Herpetologists; Governing Council, Society of Systematic Biologists; Governing Board, Fishes of the Western North Atlantic; Graduate Student Advisory Committee, University of Chicago; Board of Directors, Neotropical Ichthyological Association; Member, Scientific Advisory Council; Member, TAG Footprint Committee; Member, Space Committee, Department of Zoology.

### **Shannon J. Hackett**

Radiation Safety Officer, Field Museum; Member, Pritzker Laboratory Management Committee; Member, Student Awards Committee, American Ornithologists' Union.

### **Lawrence R. Heaney**

Member, Chiropteran Advisory Group, American Association of Zoological Parks and Aquaria; Member, Science Advisory Board, Lube Foundation; Board of Directors, Checklist Committee, Animal Care and Use Committee, Merriam Award Committee, American Society of Mammalogists; Consultant for World Conservation Union Red Data Book; Member, Philippine Festival Planning Committee; Board of Trustees, Wildlife Conservation Society of the Philippines; Consultant, National Geographic Society (biodiversity issues); Head, Division of Mammals; Member, Search Committees, Zoology and Anthropology Departments; Member, Kaffeeklatsch Committee; Chair, Promotion and Tenure Appeals Committee; Strategic Planning, Temporary Exhibitions Committee; Facilities Advisory Group, Philippine Centennial Committee.

### **Robert F. Inger**

Chairman, Science Advisory Committee, Member, Board of Trustees, Illinois Chapter, The Nature Conservancy; Associate Editor, *Zoological Research* (Kumming, China); Editorial Board, *Raffles Bulletin of Zoology* (Singapore).

### **Alfred F. Newton**

Head, Division of Insects (through June 1998); Organizer, Open House in Insect Division during International Congress of Arachnology; Member, Publications Committee; Member, Search

Subcommittee, Zoology Department/Insects; Member, Selection Committee, Lacordaire Prize of Coleopterists Society.

**Bruce D. Patterson**

President, Society for the Study of Mammalian Evolution; Board of Directors, American Society of Mammalogists; Editorial Board member, *Mastozoologia Neotropical* and *Publicaciones Especiales, Mastozoologia Neotropical*; Editorial Board member, *Diversity and Distributions*; Member, International Union for the Conservation of Nature/Species Survival Plan, New World Marsupials Specialist Group; Member, Chancellor's Advisory Committee, University of Puerto Rico; Member, American Society of Mammalogists National Committees: Grinnell Award for Teaching Excellence, Checklist Committee, *Ad hoc* Latin American Field Research Award Committee, *Ad hoc* New Awards Committee (Chair); Member, Strategic Planning Steering Committee, Planning and Finance Committee, Tours Advisory Council, Zoology Search Committee, Zoology Promotions and Review Committee, African Heritage Planning Committee Strategic Planning Permanent Exhibit Committee.

**Alan Resetar**

Co-coordinator, Historical Trends Section, Declining Amphibian Population Task Force—Central Division; Member, Indiana Nongame Program, Amphibian and Reptile Technical Advisory Committee; Member, Chicago Wilderness Reptile and Amphibian Recovery Plan.

**Mary Anne Rogers**

Member, Recycling/Environmental Awareness Committee; Member, Collections and Resources Committee, American Society of Ichthyologists and Herpetologists; Member, Strategic Planning Collections Staff Team; Contributor, Women In Science web site.

**Petra Sierwald**

Managing Editor, *The Journal of Arachnology*; Organizer of XIV International Congress of Arachnology and 22nd Annual Meeting of the American Arachnological Society.

**John Slapcinsky**

Guest Editor, *Northeastern Naturalist*, consultant, U.S. Fish and Wildlife Service; President, Chicago Shell Club.

**William T. Stanley**

Member, Recycling/Environmental Awareness Committee; Member, Facilities Advisory Group; Member, Resolution Committee, American Society of Mammalogists.

**Daniel A. Summers**

Chair, Personnel Committee; Organizer, International Arachnological Congress; Pest Monitoring Survey, Adler Planetarium.

**Margaret K. Thayer**

North American Executive Editor, *Annales Zoologici*; Editorial Board, *Dugesiana*; Past-President (Executive Committee Member), Coleopterists Society; Symposium Co-organizer, Entomological Society of America; Press contact, "Living Colors" exhibit; local tour leader, International Congress of Arachnology; supervisor-trainer, Zoology Department, slide-making system; Advisory Member, Search Committee, Zoology Department/Insects.

**Janet Voight**

At-Large representative, Scientific Advisory Council; Member, Animal Care and Use Committee; Member, Subcommittee of the Nominating Committee for the Insect Curator Search, Zoology Department; Member, Nominating and Selection Committee Insect Curator Search, Zoology Department; Head, Division of Invertebrates; Member, Tenure and Review Committee, Department of Zoology; Lecturer, Committee on Evolutionary Biology, University of Chicago.



**Harold K. Voris**

Consulting Editor for *Asian Review on Biodiversity and Environmental Conservation*.

**Mark W. Westneat**

Associate Editor, Systematic Biology; Nominating Committee, Society of Integrative and Comparative Biology; Head, Division of Fishes (first half of year); Member, Science Advisory Council; Chair, Institutional Animal Care and Use Committee.

**David Willard**

Editorial Board, *The Meadowlark*, Regional Editor, Wisconsin Christmas Bird Counts; Member, Illinois Ornithological Records Committee.

**OFFICE OF ENVIRONMENTAL AND CONSERVATION PROGRAMS**

**Carol Fialkowski**

Member, Nancy Ryerson Ranney Fellowship Committee, Friends of Ryerson Woods; Advisory Committee, Illinois Environmental Education Advocacy Consortium; Chair, Steering Committee, Environmental Literacy for Illinois, 2000; Co-Chair, National Commission on Urban and Multicultural Environmental Education; Member, Education Advisory Committee, Association of Science and Technology Centers; Review Committee, Informal Science Education Grants, National Science Foundation; National Review Panel, Blue Ribbon School Program, U.S. Department of Education; Chair, Education & Outreach Team, Chicago Wilderness; Advisory Board, Biodiversity Project; Project Leader, Environmental & Outdoor Education Initiative, Chicago Park District; Advisory Board, Biodiversity Exhibit, World Wildlife Fund; Steering Committee, Cary Symposium on Urban Ecosystems, Institute for Ecosystem Studies.

**Debra K. Moskovits**

Member, Board of Trustees, The Wetlands Initiative; Chair, Coordinating Group, Chicago Wilderness; Co-Chair, Science Team, Chicago Wilderness; Member, Steering Committee, Conservation Training Consortium; Member, Nancy Ryerson Ranney Fellowship Committee, Friends of Ryerson Woods.

**Robin B. Foster**

Member, Commission for Flora Neotropica; Scientific Board, International Center for Tropical Ecology; Trustee and Research Associate, Institute for Botanical Exploration; consultant, Conservation International; Member, Economic Botany Search Committee.

**Thomas S. Schulenberg**

Member, Editorial Board, Bird Conservation International; Member, Oversight Committee for Library of Natural Sounds and Bioacoustics, Cornell Laboratory of Ornithology; Member, South American Check-list Committee American Ornithologists' Union.

**Douglas F. Stotz**

Member, Governing Board, Biological Sciences Collegiate Division, University of Chicago Bird Advisory Committee; Member, Advisory Committee, The Nature Conservancy-Illinois; Member, Steering Committee, The Nature Conservancy Wings over America Program; Member, Conservation Training Consortium Science Team; University Teaching Coordinator, Chicago Wilderness; Member, TEEB Endangered Species Technical Advisory Committee for Birds; Member, Bird Monitoring Committee, Illinois Bird Conservation Network; Member, South American Checklist Committee, and Checklist Committee, American Ornithologists' Union; Member, Illinois Ornithological Records Committee; Member, Board of Directors, Illinois Ornithological Society.

**Sophia B Twichell**

Member, "Chocolate" Exhibit Committee; Vice President, Lake Michigan Federation; Board Member, Environmental Fund of Illinois; Member, Chocolate Exhibit Committee.

## PROFESSIONAL TRAVEL, 1998

### DEPARTMENT OF ANTHROPOLOGY

#### **Bennet Bronson**

Research: East Malaysia and Singapore: museum study; planning visits to archaeological sites.

Seminars, symposia, etc.: Singapore, Asian Civilizations Museum.

Exhibit Development: New York, American Museum of Natural History for "Pearls" exhibit.

#### **Winifred Creamer**

Tours: Northern Illinois University Tour, Turkey and the Treasures of Troy.

#### **William Grewe-Mullins**

Seminars, symposia, etc.: Los Angeles, CA, American Association of Museums Annual Meetings.

#### **Jonathan Haas**

Seminars, symposia, etc.: Santa Fe, NM, Integrated Themes Workshop, Santa Fe Institute; Santa Fe, NM, Workshop on modeling cultural evolution; Santa Fe Institute; Santa Fe, NM, meeting of the National Consortium for the Study of Emerging Threats; Madrid, Spain, Conference on museography for the 21st Century and consultation at the National Archaeological Museum; Seattle, WA, Annual Meeting of the Society for American Archaeology.

Other: Santa Fe, NM, meeting of the Review Committee, Native American Graves Protection and Repatriation Act (NAGPRA); Santa Fe, NM, Eight Northern Pueblos Market to acquire collections; San Diego, CA, Review of the San Diego Museum of Man; Concho, OK, Consultation with the Cheyenne and Arapaho Tribes of Oklahoma; Pawnee, OK, Consultation with the Pawnee Tribe.

#### **Chuimei Ho**

Field work: Malaysia; Sarawak, Malacca, Endau, Singapore.

Research: Malaysia, Sarawak Museum; Singapore, Asian Civilisations Museum; Stockholm, Far Eastern Museum of Art; Philadelphia, Philadelphia Museum of Art; University Museum.

Seminars, symposia, etc.: Singapore, Asian Civilisations Museum; Stockholm, Sweden, EU-Japan Fest; Philadelphia, PA, American Anthropological Association Annual Meetings.

Other: London & Wales, publication development for Yale University Press.

#### **Janice Klein**

Seminars, symposia, etc.: Chicago, IL, ALI-ABA Course Study, "Legal Problems of Museum Administration;" Los Angeles, CA, American Association of Museums Annual Meetings; Madison WI, Midwest Museums Conference Annual Meeting.

#### **Chapurukha M. Kusimba**

Field work: Tsavo and Mtwapa, Kenya,

Seminars, symposia, etc.: Philadelphia, PA, American Anthropological Association Annual Meetings; Seattle, WA, Annual Meetings of the Society for American Archaeology; Chicago, IL, African Studies Association Annual Meeting.

Collection Research: Angola, IN, Tri-State University; Philadelphia, PA, University of Pennsylvania Museum.

#### **Holly Lundberg**

Seminars, symposia, etc.: Whitehorse, Yukon, Canada, Canadian Conservation of Cultural Property Annual Meeting and Workshop.

Consultant: Denver, CO, "Traveling Africa" exhibit, Denver Museum of Natural History.

#### **Stephen E. Nash**

Seminars, symposia, etc.: Seattle, WA, Annual Meetings of the Society for American Archaeology; Silver City, NM, Mogollon Conference Biannual Meeting.

**Anna C. Roosevelt**

Field work: Sangha River and Bangui, Central Africa Republic; Middle Congo River, Republic of Congo (Brazzaville).

Seminars, symposia, etc.: Seattle, WA, Annual Meetings of the Society for American Archaeology; Johannesburg, South Africa, International Association for the Study of Human Paleontology, Association of Human Biologists; Bellagio, Italy, Dual Congress, Women and Gender in Archaeology; Boston, MA, Conference on Remote Sensing in Archaeology; Philadelphia, PA, American Anthropological Association; Columbia, SC, South Carolina Archaeology Conference.

**Catherine Sease**

Field work: Tell Kurdu, Hatay, Turkey.

Seminars, symposia, etc.: Arlington, VA, American Institute for Conservation; New Brunswick, NJ, invited participant, Rutgers Conference on Art, Antiquity and the Law.

Consultant: Department of Anthropology, University of Illinois at Urbana; Missouri, Mastodon State Historic Site; Iowa, Office of the State Archaeologist; Indiana, Circus Hall of Fame.

**John Edward Terrell**

Seminars, symposia, etc.: Seattle, WA, Annual Meetings of the Society for American Archaeology; Philadelphia, PA, American Anthropological Association Annual Meetings.

**Christine Thede**

Seminars, symposia, etc.: Mount Carroll, IL, Campbell Center for Historic Preservation, "Spot Testing for Materials Characterization."

**Alaka Wali**

Research: New York, NY.

Seminars, symposia, etc.: San Juan, Puerto Rico, Society for Applied Anthropology Annual Meetings; Los Angeles, CA, American Association of Museums Annual Meetings; Philadelphia, PA, invited discussant, American Anthropological Association Annual Meetings; Washington, DC, Advisory Board of the Dialogue between Science and Religion, American Association for the Advancement of Science; Atlanta, GA, invited lecture to the Division of Reproductive Health of the Centers for Disease Control; Racine, WI, invited participant at conference on Race and Ethnicity hosted by the Johnson Foundation; Atlanta, GA, workshop and planning committee meeting for conference on qualitative research initiatives of the Centers for Disease Control.

**Robert Welsch**

Field work: Aitape, Papua New Guinea.

Seminars, symposia, etc.: Philadelphia, PA, American Anthropological Association Annual Meetings; Hanover, NH, Dartmouth College; Calgary, Alberta, Canada, Glenbow Museum; Buffalo, NY, Buffalo Museum of Science; New York, NY, American Museum of Natural History; Honolulu, HI; Liverpool, England; London, England; Oxford, England.

**DEPARTMENT OF BOTANY**

**Fred R. Barrie**

Research: St. Louis, Missouri, Missouri Botanical Garden.

**Michael O. Dillon**

Field work: San Martín, Peru; Coastal and Andean Peru.

Research: Coastal and Andean Peru.

**Andrew Douglas**

Field work: United Kingdom.

Research: Royal Botanic Gardens, Kew, England.

**Michele Eck**

Seminars, symposia, etc.: Chicago, Illinois, Latin American Studies Association Meeting.

**Fernando Fernández**

Field work: Caribbean National Forest, Puerto Rico; Highlands, North Carolina; Huron Mountains, Michigan; Warren Woods, Michigan.

Seminars, symposia, etc.: Woods Hole, Massachusetts, National Science Foundation Partnership for Enhancing Expertise in Taxonomy Workshop; Luquillo, Puerto Rico, Instructor for Partnership for Enhancing Expertise in Taxonomy Workshop on Ascomycete Systematics; San Juan, Puerto Rico, Mycological Society of America Annual meeting.

**Robin B. Foster**

(See Environmental and Conservation Programs)

**Sabine M. Huhndorf**

Seminars, symposia, etc.: Costa Rica, International Workshop on the Fungal Inventory of Costa Rica; Woods Hole, Massachusetts, National Science Foundation Partnership for Enhancing Expertise in Taxonomy Workshop.

**Thomas G. Lammers**

Seminars, symposia, etc.: St. Louis, Missouri, Missouri Botanical Garden Fall Systematics Symposium; Iquitos, Peru (for Miami University), "Natural History of the Amazon," Amazon Center for Environmental Education and Research.

**Patrick R. Leacock**

Field work: Chicago area; Illinois; Indiana; Michigan; Wisconsin.

Seminars, symposia, etc.: Chicago, Illinois, Illinois State Academy of Science; San Juan, Puerto Rico, Mycological Society of America Annual Meeting; Monterey, California, North American Mycological Association Annual Foray.

**Sarah T. Long**

Seminars, symposia, etc.: Carbondale, Illinois, Animal Behavior Society.

**François M. Lutzoni**

Field work: Negev Desert, Israel; Bern and other localities, Switzerland; Oregon, USA; Alps, Austria; several localities, Puerto Rico.

Research: University of Gdansk, Poland.

Seminars, symposia, etc.: Israel, Sixth International Mycological Congress; Puerto Rico, Mycological Society of America; Princeton University, Special DIMACS Symposium on Estimating Large Scale Phylogenies: Biological, Statistical, and Algorithmic Problems; University of British Columbia, Vancouver, Society of Systematic Biologists; Karl-Franzens-Universität Graz, Austria, Progress in Molecular Studies of Lichens; invited speaker, Department of Botany, University of Wisconsin at Madison; invited speaker, Swiss Federal Research Institute of Forest, Snow and Landscape, Birmensdorf, Switzerland; invited speaker, Department of Biology, University of Oregon; invited speaker, Department of Botany and Plant Pathology, Oregon State University.

**Gregory M. Mueller**

Field work: Puerto Rico; Costa Rica; Beijing, Jilin and Yunnan Provinces, China; Huron Mountains, Michigan; Chicago area.

Research: Chinese Academy of Sciences, Beijing, China; University of Costa Rica, San Pedro, Costa Rica; National Institute of Biodiversity, Santo Domingo, Heredia, Costa Rica.

Seminars, symposia, etc.: Uppsala, Sweden, International Congress on Mycorrhizae; San Juan, Puerto Rico, Mycological Society of America; San José, Costa Rica, National Fungal Inventory Workshop; Woods Hole, Massachusetts, National Science Foundation Partnership for Enhancing Expertise in Taxonomy Workshop; Illinois State Academy of Science, Chicago; invited speaker,

Harvard University, Cambridge, Massachusetts; invited speaker, Chinese Academy of Sciences, Beijing, China.

Exhibit Development: San Francisco, "Underground Adventure" Exhibit meetings.

**Christine Niezgoda**

Seminars, symposia, etc.: Edmonton, Canada, SPNHC Meeting, Moderator, Botanical Special Interest Group Meeting.

**Kathleen M. Pryer**

Seminars, symposia, etc.: University of British Columbia, Vancouver, Society of Systematic Biologists; Princeton University, Special DIMACS Symposium on Estimating Large Scale Phylogenies: Biological, Statistical, and Algorithmic Problems; Princeton University, Green Plant Phylogeny Research Coordination Group Workshop on Large-Scale Phylogenies; Field Museum, Green Plant Phylogeny Research Coordination Group Workshop on Pteridophytes.

**Jacinto C. Regalado, Jr.**

Field work: Palawan, Philippines.

Research: Rijksherbarium, Leiden, The Netherlands; Royal Botanic Gardens, Kew, United Kingdom; Museum National d'Histoire Naturelle, Paris, France; Jardin Botanique National de Belgique, Bruxelles, Belgium; Herbarium Universitatis Florentinae, Firenze, Italy; Harvard University Herbaria, Cambridge, Massachusetts.

Seminars, symposia, etc.: ESRI Users Conference, San Diego, California.

**Djaja Djendoel Soejarto**

Field work: Vientiane Prefecture, Laos; Que Phong, Nghe An Province, Vietnam; Cuc Phuong National Park, Vietnam; Palawan, Philippines; Sarawak, Malaysia.

Research: Herbarium of Institute of Ecology and Biological Resources, National Center for Science and Technology, Hanoi, Vietnam.

Seminars, symposia, etc.: Vientiane, Laos, Research Institute of Medicinal Plants; seminar, Hanoi, Vietnam, National Center for Science and Technology; symposium, Aguas de Lindoia, Sao Paulo, XV Brazilian Symposium on Medicinal Plants; symposium and course, Tegucigalpa, Honduras, Colegio Farmaceutico, Tegucigalpa, XXV Congreso Centroamericano y del Caribe Ciencias Farmaceuticas; Invited Speaker, Manila, Philippines, Department of Environment and National Resources, "Forum on Access to Asia's Genetic Resources"; Singapore, Department of Pharmacology, National University of Singapore.

**Betty A. Strack**

Field work: Puerto Rico; Beijing, Jilin and Yunnan Provinces, China; Huron Mountains, Michigan.

Seminars, symposia, etc.: Uppsala, Sweden, International Congress on Mycorrhizae; San Juan, Puerto Rico, Mycological Society of America.

**Laura Torres**

Field work: Merida Yucatan, Mexico.

Seminars, symposia, etc.: Latin American Studies Association Meeting, Chicago, Illinois; V Latin American Congress of Botany / XIV Congress of the Mexican Botany Society.

**Quixin Wu**

Field work: Highlands, North Carolina; Beijing, Jilin and Yunnan Provinces, China; Huron Mountains, Michigan.

Seminars, symposia, etc.: San Juan, Puerto Rico, Mycological Society of America; Uppsala, Sweden, International Congress on Mycorrhizae.

## **DEPARTMENT OF GEOLOGY**

### **John R. Bolt**

Field work: Southeastern Utah.

Research: Austin, TX, University of Texas-Austin Balcones Research Center.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

### **Paul Brinkman**

Field work: Augustana field season, May-June

Research: Washington, DC, Smithsonian Institution archives; Nebraska, Agate Fossil Beds National Monument archives.

### **Gregory A. Buckley**

Field work: Madagascar.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

### **Peter R. Crane**

Field work: Maryland.

Seminars, symposia, etc.: Toronto, Geological Society of America Meetings; Baltimore, Botanical Society of America Meetings; Royal Botanic Gardens, Kew, U.K., Palynology Symposium; St. Louis, Missouri Botanical Garden, XVI International Botanical Congress, Steering Committee; Oxford University, U.K., Natural History Museum, Stockholm; Long Beach, California Paleontological Society Council Meeting; Harvard University Workshop; University of Vienna Lectures.

### **Darin Croft**

Field work: Lance Creek, Wyoming; Chile; Madagascar.

Research: American Museum of Natural History, New York; Museo Argentino de Ciencias Naturales, Buenos Aires, Argentina; Museo de La Plata, La Plata, Argentina.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

### **Marlene Hill Donnelly**

Seminars, symposia, etc.: Ames, Iowa, Guild of Natural Science Illustrators Annual Conference.

### **John J. Flynn**

Field work: Madagascar; Chile, central Andes; Chile, Altiplano.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

### **Lance Grande**

Research: British Museum, London, England; Senckenberg Museum, Frankfurt, Germany; Hessisches Landesmuseum, Darmstadt, Germany; American Museum of Natural History, New York; University of Massachusetts, Amherst, three-month research sabbatical.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

### **Johnny Hsu**

Seminars, symposia, etc.: Annual meeting of Society for the Study of Evolution, Vancouver.

### **Scott Lidgard**

Field work: Panama

Seminars, symposia, etc.: Panama, International Bryozoology Association; Santa Barbara, CA, Phanerozoic Marine Diversity Workshop, National Center for Ecological Analysis and Synthesis

### **Richard Lupia**

Field work: Maryland; Virginia

Research: Melbourne, Australia.

Seminars, symposia, etc.: Baltimore, MD, Botanical Society of America, Annual Meeting; Toronto, CAN, Geological Society of America, Annual Meeting.

**Michael Nedbal**

Seminars, symposia, etc.: Annual meeting of Society for the Study of Evolution, Vancouver.

**Olivier Rieppel**

Field work: Nevada; Madagascar

Research: Budapest; Berlin; Bayreuth, Stuttgart; Munich; Tübingen

Seminars, symposia, etc.: Halle, Epicontinental Triassic International Symposium; Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

**William F. Simpson**

Field work: Madagascar.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

**William D. Turnbull**

Research: London, Natural History Museum; Harvard

Seminars, symposia, etc.: Oulu, Finland, Symposium on Dental Morphology; Austin, Texas, Lundelius Symposium on Quaternary Vertebrate Paleontology.

**Meenakshi Wadhwa**

Research: St. Louis, Missouri, Washington University; London, U. K., The Natural History Museum; San Diego, California, Scripps Institution of Oceanography

Seminars, symposia, etc.: Houston, Texas, Lunar and Planetary Science Conference; Paris, France, Paul Pellas Symposium; Dublin, Ireland, Annual Meteoritical Society Meeting; Santa Barbara, California, Protostars and Planets IV Conference, invited presentation.

**Peter J. Wagner**

Field work: Death Valley National Park.

Seminars, symposia, etc.: Vancouver, Society of Systematic Biology/Society for the Study of Evolution Meetings; Washington, D.C., American Malacological Union; Toronto, Geological Society of America.

**Gina D. Wesley**

Field work: Madagascar; South Dakota; Big Bend National Park, Texas.

Research: Los Angeles, L. A. County Museum; New York, American Museum of Natural History.

Seminars, symposia, etc.: Snowbird, Utah, Society of Vertebrate Paleontology Annual Meeting.

**DEPARTMENT OF ZOOLOGY****J. William O. Ballard**

Field Work: Madagascar, Reunion Is, Seychelles Is, Hawaii, Tahiti.

Research: Cold Spring Harbor Laboratory, NY; University of Iowa.

Seminars, symposia, etc.: Vancouver, US/Germany/Japan TriNational Workshop of Molecular Evolution; Las Vegas, Entomological Society of America.

Workshop: Molecular Techniques in Population Biology, Université D'Antananarivo, Antananarivo, Madagascar.

**John M. Bates**

Field work: KwaZulu-Natal, South Africa; La Paz, Bolivia.

Research: Museo de Historia Natural Noel Kempff Mercado, Santa Cruz, Bolivia; University of Michigan, University of Illinois, Champaign-Urbana.

Seminars, symposia, etc.: Durban, South Africa, XXII International Ornithological Congress; St. Louis, American Ornithologists' Union Annual Meeting.

**Rüdiger Bieler**

Field Work: Florida, Smithsonian Marine Station and Florida Keys National Marine Sanctuary.

Research: Florida International University, molecular research.  
Seminars, symposia, etc.: Washington D.C., preparation and organization of World Congress of Malacology '98, International Gastropod Phylogeny Workshop.  
Other: various east coast museums, collection-based research.

### **Barry Chernoff**

Field Work: Pantanal, Brazil; Rio Pastaza River Basin, Ecuador, Peru.  
Research: Pantanal, Brazil; Museu Zoologia Universidade Sao Paulo.  
Seminars, symposia, etc.: Seattle, American Society of Ichthyology and Herpetology; St. Louis, Society for the Study of Evolution; invited presentation, Antofagasta, Chile, Phylogeny and Biogeography of Chilean Fishes; invited presentation, Townsville, Australia, Aquatic and Marine Biodiversity Symposium.  
Other: Washington, D.C. and Irvine California, National Academy of Sciences; Washington, D.C., Conservation International; St. Louis, Sustainable Aquatic Resources Center.

### **Amy Downing-Meisner**

Seminars, symposia, etc.: Guelph, Ontario, Canada, American Society of Ichthyologists and Herpetologists Annual Meeting; Cuernavaca, Mexico, International symposium on viviparous fishes.

### **Thomas Gnoske**

Research: British Museum of Natural History, London; National Museums of Kenya, Nairobi; Tsavo National Park, Kenya; Queen Elizabeth National Park, Uganda; Minnesota Department of Natural Resources regional offices.

### **Shannon J. Hackett**

Field work: KwaZulu-Natal, South Africa  
Research: University of Michigan  
Seminars, symposia, etc.: St. Louis, Missouri, American Ornithologists' Union Annual Meeting; Durban, South Africa, International Ornithological Congress.

### **Robert F. Inger**

Field work: Malaysia.

### **Lawrence R. Heaney**

Seminars, symposia, etc.: Philippines, consultant on biodiversity and conservation to government, university and non-governmental agencies, seminars on biodiversity and conservation for First Philippines Holding Corporation and Museum Volunteers Association of the Philippines; Virginia Polytechnic University, Blacksburg, American Society of Mammalogists Board of Directors and Annual Meeting; invited seminar, Boston University.  
Field work: Utah, La Sal Mountains.

### **Alfred F. Newton**

Field work: Southwestern Utah.  
Research: Canadian National Collection of Insects, Ottawa; Museum of Comparative Zoology, Harvard Univ., Cambridge, Massachusetts.  
Seminars, symposia, etc.: Mesquite, NV, Entomological Collections Network; Las Vegas, Entomological Society of America; Chicago, International Congress of Arachnology.

### **Philip P. Parrillo**

Field work: Cuzco, Apurimac, and Madre de Dios, Peru; Palos Hills area, Illinois.

### **Bruce D. Patterson**

Field work: National Museums of Kenya and Tsavo National Parks, Kenya (January); Tsavo National Parks, Kenya (October).  
Seminars, symposia, etc.: coastal Virginia and Maryland, Penrose Conference on large spatial scales in ecology and paleoecology; Blacksburg, Virginia, American Society of Mammalogists Annual meeting.



**Alan Resetar**

Seminars, symposia, etc.: 60<sup>th</sup> Annual Midwest Fish and Wildlife Conference; Indianapolis, Indiana, Indiana Academy of Sciences.

**Mary Anne Rogers**

Seminars, symposia, etc.: Guelph, Ontario, Canada, American Society of Ichthyologists and Herpetologists Annual Meeting.

**Petra Sierwald**

Field work: NSF sponsored workshop for the PEET Program, Woods Hole, MA.

Exhibit Development: Underground Exhibit model development, Academy Studios, San Francisco, CA.

**John Slapcinsky**

Field work: St. Catherine's Island, Georgia; Shawnee National Forest, Illinois; southern Appalachians, U.S.A., algific slopes, Iowa.

Seminars, symposia, etc.: World Congress of Malacology, Washington, D.C.; Terrestrial Mollusks of the Southern Appalachians, Asheville, North Carolina.

**William T. Stanley**

Field work: southern Tanzania

Research: Dar es Salaam, Tanzania

Seminars, symposia, etc.: Blacksburg, VA, American Society of Mammalogists

**Daniel A. Summers**

Seminars, symposia, etc.: Entomological Society of America, Las Vegas, NV; Entomological Collections Network, Mesquite, NV.

**Margaret K. Thayer**

Field work: Chicago area; southwestern Utah.

Research: Canadian National Collection of Insects, Ottawa.

Seminars, symposia, etc.: Springfield, Illinois Renewable Resources Conference; Mesquite, NV, Entomological Collections Network; Las Vegas, Entomological Society of America.

Tours: International Congress of Arachnology tour, Palos Hills.

**Janet R. Voight**

Field work: R/V ATLANTIS Cruise 3, Leg 23 with the DSV ALVIN. Baby Bare, Axial Seamount and Southern Juan de Fuca Ridge, North Pacific Ocean.

Research: National Oceanographic and Atmospheric Administration, Pacific Marine Environmental Laboratory, Newport, Oregon.

Seminars, symposia, etc.: San Francisco, American Geophysical Union meeting; Washington, D.C., World Congress of Malacology; invited presentation, Loyola University, Chicago; Public seminar: Hatfield Marine Science Center, Oregon State University, Newport.

**Harold K. Voris**

Field work: Prince of Songkla University, Hat Yai Campus, Alabama, Dauphin Sea Lab.

Seminars, symposia, etc.: Two presentations, Guelph, Ontario, Canada, annual meeting of American Society of Ichthyologists and Herpetologists.

**Mark W. Westneat**

Field Work: Solomon Islands, Western Pacific. Santa Cruz group of the Eastern Solomons.

Research: Lizard Island, North Queensland Australia. Feeding mechanics of labrid fishes.

Seminars, symposia, etc.: invited seminar, Scripps Institution of Oceanography, La Jolla, CA.

Other: American Society of Ichthyologists and Herpetologists, University of Guelph, Ontario Canada. Society for the Study of Evolution, University of British Columbia, Vancouver, Canada.

**David Willard**

Research: Budongo Forest, Uganda; Archbold Biological Station, Lake Placid, FL; Minnesota Department of Natural Resources regional offices.

Other: International Ornithological Congress, Durban.

**OFFICE OF ENVIRONMENTAL AND CONSERVATION PROGRAMS**

**Carol Fialkowski**

Seminars, symposia, etc.: Washington, D.C., Biodiversity Project Advisors' Forum; Ibaraki, Japan, USA & Japan Symposium on Environmental Learning with Effective Use of Museums, Ibaraki Nature Museum; New York, NY, Biodiversity Education Summit, American Museum of Natural History; Edmonton, Alberta, Canada, Association of Science and Technology Centers; Nashville, Indiana, U.S. Forest Service's Conservation Education State Cooperators Meeting; Atlanta, Georgia, North American Association for Environmental Education; Springfield, Illinois, Illinois Renewable Natural Resources Conference; Palm Beach, Florida, Palm Beach County's Environmental Network.

Professional Meetings: Spring Green, Wisconsin, Biodiversity Project; Washington, D.C., World Wildlife Fund Biodiversity Exhibit; Washington, D.C., Biodiversity Educators Network.

**Robin B. Foster**

Field work: Yasuni, Napo, Ecuador; Barro Colorado Island, Panama; Pantanal, Mato Grosso do Sul, Brasil; Matatlantica,, Parana, Brasil; Yucatan-Quintana Roo, Mexico; Zabalo, Sucumbios, Ecuador; Maquipucuna, Pichincha, Ecuador.

Research: Herbarium, Univ. Catolica Ecuador, Quito; Smithsonian Trop. Res. Inst., Panama; Herbarium, Univ. Mato Grosso do Sul, Brasil; Herbarium, Jardim Botânico, Curitiba, Brasil; Museu de Historia Natural, Curitiba, Brasil; Herbario, Univ. N. A. M, Mexico, D.F.; Herbario Nacional, Quito, Ecuador.

Seminars, symposia, etc.: Field Museum/Conservation International Andean RAP Program Meeting, Washington, D.C.; Center for Tropical Forest Science Network Symposium, Washington, D.C.; Latin American Botanical Congress, Mexico City;

Tours: Field Museum Women's Board Tour, Panama.

**Debra K. Moskovits**

Field work: Parc National de Marahoue, Ivory Coast (Rapid Assessment Program); Río Pastaza – Ecuador and Peru (AquaRAP overflights); Pantanal, Brasil (AquaRAP); Zabalo, Ecuador (Cofan).

Seminars, symposia, etc.: Washington, D.C.: NASA, Conservation International, Department of Agriculture, Wilderness Society; Brasil (Universidade Federal do Belo Horizonte, Empresa Brasileira de Pesquisa Agropecuária, Centro de Pesquisa Agropecuária do Pantanal).

**Thomas S. Schulenberg**

Field work: Parc National de la Marahoue, Ivory Coast, (Rapid Assessment Program); Cordillera Vilcabamba, southern Peru, (Rapid Assessment Program); Budongo Forest Reserve, Uganda, (Africa Tropical Biodiversity Program).

Seminars, symposia, etc.: St. Louis, Missouri, American Ornithologists' Union meeting.

**Douglas F. Stotz**

Field work: eastern Ecuador; Chicago area (Lake Calumet, Midewin, Green lake Forest Preserve, Swallow Cliff).

Seminars, symposia, etc.: St. Louis, North American Ornithological Congress; Rio de Janeiro, Brazilian Ornithological Congress; Springfield, Illinois, Illinois Renewable Natural Resources Conference.

Professional Meetings: Champaign, Illinois, Endangered Species Technical Advisory Committee/Birds.

**Sophia B. Twichell**

Seminars, symposia, etc.: Philadelphia, American Association for the Advancement of Science.

**CONTRIBUTIONS TO PUBLIC LEARNING, I, 1998**  
(EXHIBITS, INFORMAL EDUCATION, PUBLIC PRESENTATIONS, ETC.)

**DEPARTMENT OF ANTHROPOLOGY**

**Bennet Bronson**

Exhibit Development: Subject Matter Specialist, "Philippines: Voyage of a Nation;" Subject Matter Specialist, "Bread;" Co-organizer "Pearls;" Subject Matter Specialist, "Japanese Lacquerware."

Education Programs: two collection tours for Philippine community groups; two lectures for Philippine exhibit volunteers; lecture and Tibet exhibit tour for students and teachers in U of Chicago's Public Schools Enrichment Program; lecture and exhibit tour for Highlight volunteer group; Japan storeroom tour for Collections Committee; collection tour for Founders' Council.

Public Presentations: Chicago, IL, School of the Art Institute.

**Winifred Creamer**

Public Presentations: DeKalb Area Women's Center, DeKalb, IL.

**Bronwyn Eves**

Education Programs: Field Museum Members' Nights.

**Jonathan Haas**

Exhibit Development: On-going planning for renovation of East Wing, Halls of the Americas; Development team for exhibit on "Chocolate;" Developed proposal for exhibit on Inca and Aztec Empires; Curator for exhibit on Arapaho photographs and art; Label copy review for "Origins;" Collections review for "Sounds from the Vault;" Hall 10 renovations; Museum Store planning; Label review and consultation on "Underground Adventure."

Education Programs: Women's Board evening dinner program; Celebracion presentation on Moche pottery and public lecture on planning an archaeological project; President's dinner presentation and tour; Collections Committee presentation and tour.

Media Development: Field Museum Web Page on Paul Martin project; Initiated cooperative arrangement with Encyclopedia Britannica on North American Indians.

**Chuimei Ho**

Public Presentations: Lecture, Highland Park Rotary Club, Highland Park, IL.

**Janice Klein**

Exhibit Development: "Philippines: Voyage of a Nation;" "Art of the Motorcycle;" "Origins;" "Viewing Olmsted;" "Sounds From the Vault;" "Traveling Africa."

Education Programs: Celebracion; Archives Workshop; Sisters of the Great Lakes symposium; From the Collections Cart; Field Museum Members' Nights; Peter Crane's Fellow Royal Society party.

Public Presentations: Smithsonian Institution Workshop "Introduction to Archival Research".

**Chapurukha M. Kusimba**

Exhibit Development: Consultant, "Origins."

Education Programs: Field Museum Members' Nights.

Public Presentations: Chicago Primitive Society; Chicago Renaissance Society; Bryn Mawr College; Kemet Institute, University of Nairobi; Kemet Institute, Illinois State University; University of Illinois at Chicago; University of California at Los Angeles.

**Holly Lundberg**

Exhibit Development: "Origins;" "Swedish Folk Art;" "Varian Fry: Assignment Rescue;" "Viewing Olmsted;" "Poster Art from The Golden Age of Mexican Cinema;" "Sisters of the Great Lakes;" "A Basketmaker in Rural Japan;" "Tibetan Tongkha;" Hall 10 lighting project.

Education Programs: Field Museum Members' Nights.

**Stephen E. Nash**

Education Programs: Field Museum Members' Nights.

**Anna C. Roosevelt**

Exhibit Development: Guest Curator, Prehistory of Amazonia, the Northern Andes and the Caribbean, South American Hall, American Museum of Natural History, New York. Where the Jaguars are Exalted: Animals in the Art of Ancient Central America, Project Director, Museum of the American Indian, New York.

**Catherine Sease**

Exhibit Development: Grainger Hall, "Philippines: Voyage of a Nation;" "A Basketmaker in Rural Japan;" "Origins;" "Sounds from the Vault;" "Underground Adventure;" "Swedish Folk Art;" "Poster Art from the Golden Age of Mexican Cinema;" "La Guadalupana."

**John Edward Terrell**

Exhibit Development: "Sounds from the Vault."

Education Programs: Field Museum Members' Nights. Health and Human Genetic Diversity Symposium, Field Museum.

Media Development: Radio interview, "Jan Coleman Show," WBEZ; newspaper interviews (2) *Chicago Tribune*.

**Christine Thede**

Education Programs: Field Museum Members' Nights.

**Alaka Wali**

Exhibit Development: Content Specialist, "Philippines: Voyage of a Nation;" Content Specialist, "The Art of the Motorcycle;" Content Specialist, "Origins;" Content Specialist, "Sounds from the Vault."

Education Programs: Field Museum Members' Nights; Introduction to Dr. Ronald Takaki, Membership Program; Introduction to Dr. Ian Tattersall; Teacher Training Institute on Living Together; Consultation on Living Together Educational Materials; Living Together Corporate Diversity Program; British Airways Inspiration Boxes; National Summit on Africa; African Heritage Festival; Future Perfect Lecture Series for Project Millennium.

Public Presentations: Special Living Together Presentations to Harris Bank Group, Chicago Tribune Corporation, Ameritech, Lucent Technologies (3 separate groups), Metropolitan Leadership Council, Chicago Realtors Association; Presentation on Haitian Voodoo to the Collections Committee of the Field Museum; Presentation to Panama Tour Group; Presentation and Tour of Living Together for First United Methodist Church of Evanston.

Media Development: Interviewed for WBEZ radio segment aired on "All Things Considered", (Spring); Interviewed for background public relations piece on the "Art of the Motorcycle."

**Robert Welsch**

Exhibit Development: "Art of the Papua Gulf," Hood Museum of Art, Dartmouth, NH.

Public Presentations: Founders Council Lecture, Field Museum; Lecture to Rotary Club, Hanover, NH; Lecture to Lions Club, Hanover, NH; The Episcopal Students Association, Dartmouth College, Hanover, NH; Docent Training, Pacific Galleries, Field Museum.

Education Programs: Health and Human Genetic Diversity Symposium, Field Museum.

Media Development: Interviewed for WBBM Radio.

**DEPARTMENT OF BOTANY****William C. Burger**

Education Programs: Field Museum Members' Nights; Botany Department Tours, Planning Committee, Science Olympiad.

**Michael O. Dillon**

Education Programs: Celebración; "Bill Nye the Science Guy and Mr. Al Niño".

Public Presentations: "El Niño and Coastal Peruvian Plant Communities", Founder's Council.

Media Development: radio/print interview, Rioja, Peru; print interview, "Chasing the 1997/1998 El Niño", *In the Field*, September/October, 2-4.

**Robin B. Foster**

(See Environmental and Conservation Programs)

**Nancy Hensold**

Education Programs: Field Museum Members' Nights; Celebración.

**Patrick R. Leacock**

Education Programs: It's Wild in Chicago Festival; Field Museum Members' Nights; Morton Arboretum Naturalist Certification Program; short course, "Fall Mushrooms and Fungi".

Public Presentations: lectures, Illinois Mycological Association.

Tours and field trips: Illinois Mycological Association, field trip to Busse Woods; field trip to Swallow Cliff.

Other: Behind-the-scenes tours for Biodiversity Explorers interns; volunteer orientation; Nachusa Grassland Nature Conservancy Preserve manager and volunteer stewards.

**Sarah T. Long**

Media Development: Newspaper interview, Daily Southtown.

**François M. Lutzoni**

Education Programs: Field Museum Members' Nights.

Tours and field trips: Field Museum Development Office; Three potential Postdoctoral Researchers for the Department of Botany.

**Gregory M. Mueller**

Exhibit Development: Chief Scientific Content Specialist, "Underground Adventure".

Education Programs: Field Museum Members' Nights.

Public Presentations: Lecture, Illinois Rapid Assessment Program (IRAP) Workshop; lecture, Illinois Mycological Association, Chicago.

Tours and field trips: Illinois Mycological Association, field trip to Arie Crown Woods.

Other: Behind-the-scenes tours.

**Christine Niezgoda**

Education Programs: Field Museum Members' Nights.

**Kathleen M. Pryer**

Tours and field trips: Green Plant Phylogeny Research Coordination Group Workshop, field trip to Garfield Park Conservatory Fern House.

**Jacinto C. Regalado, Jr.**

Public Presentations: lecture, Milwaukee Botanic Gardens, Milwaukee, Wisconsin; scientific seminar, Rijksherbarium, Leiden, The Netherlands.

Media Development: Radio interview (with L. R. Heaney), WBEZ.

**Djaja Djendoel Soejarto**

Media Development: TV Interview (with Michael Flavin, MediChem Research Inc.), on anti-HIV Calanolides clinical development, Channel 5.

**Betty A. Strack**

Education Programs: Field Museum Members' Nights.

**Laura Torres**

Education Programs: Field Museum Members' Nights.

Other: herbarium behind the scenes tour.

**Quixin Wu**

Education Programs: Field Museum Members' Nights.

**DEPARTMENT OF GEOLOGY**

**John R. Bolt**

Education Programs: Field Museum Members' Nights.

Public Presentations: "Life Over" Time tour for Kinship foundation.

**Paul Brinkman**

Education Programs: Mammoth Mammal Move, Feb.; Members' Nights; Latin School program, Oct.; fossil prep; numerous overnight courses and department tours/talks; Behind the scenes with the Geology Department

**Gregory A. Buckley**

Education Programs: Field Museum Members' Nights.

Other: Women's Board Christmas Tea Tour; numerous departmental tours

**Peter R. Crane**

Exhibit Development: Steering Committee, "Underground Adventure."

Education Programs: Field Museum Members' Nights.

Public Presentations: Argentina and Chile, Field Museum Tour.

**Darin Croft**

Media Development: interviewed for BBC special, "The Extinction Files" (aired on the Discovery Channel in U.S.).

Other: paleontology talk for 4th grade class, Boyd Elementary School, Omaha, Nebraska.

**Marlene Hill Donnelly**

Education Programs: Field Museum Members' Nights.

Exhibit Development: Exhibit and award in the American Association of Botanical Artists' Midwest Regional Show; Guild of Natural Science Illustrators 1998 National Exhibition

Public Presentations: Annual Meeting, Guild of Natural Science Illustrators

**John J. Flynn**

Exhibit Development: Scientific coordinator, *T. rex* "Sue" acquisition and public programs.

Public Presentations: Cranbrook Science Institute, Bloomfield Hills, Michigan, "Fossils and Geologic History of the Chilean Andes"; University of Chicago, Alumni Reunion; featured speaker Women's Board Annual Business Meeting.

Media Development: *New Explorers*, "Mystery of the Andes;" interviewed by *Science News*; interviewed by the *Chicago Tribune* and *Sun-Times*, *New York Times*, *Voice of America*, *Science*, on "Humankind's Evolutionary Roots" symposium; interviewed by *Science* for feature on "Dinosaur Research Boom;" interviewed by print, radio and television on *T. rex* "Sue"; coordinated National Geographic magazine *T. rex* "Sue" articles.

Web site: Scientific Content Specialist for "Sue" and "Museum Stories: A Fabulous Find."

Other: numerous "Sue"-related projects, tours, and events.

**Richard Lupia**

Education Programs: Field Museum Members' Nights; talk, Northwestern Univ. Summer Life Sciences Research Program; talk, Biodiversity Explorers.

Tours and field trips: behind-the-scenes tour, Northwestern Univ. Summer Life Sciences Research Program

**Robert Masek**

Education Programs: numerous behind-the-scenes tours of Geology fossil preparation labs and McDonald's prep lab.

**Steve McCarroll**

Education: teacher programs; volunteer training

Tours and field trips: numerous behind-the-scenes tours of Geology fossil preparation labs

Public Presentations: demonstrated paleo prep for Dinofest

**Clarita M. Nuñez**

Tours and field trips: Gem Hall Docent for Harvard Business School group, June; FM Museology Class Tour, December.

**Olivier Rieppel**

Media Development: Press preview, McDonald's Fossil Preparation Lab, 9 June 1998; Radio interview: "Chinese Feathered Dinosaurs"; opening of exhibit "Chinese Feathered Dinosaurs."

**William F. Simpson**

Exhibit Development: Preparation Supervisor, Field Museum Sue Preparation Laboratory on second floor; major involvement on Sue Project - Designing 2 new Sue prep labs and overseeing their completion - Given many media interviews.

Education Programs: Field Museum Members' Night; Field Museum museology class.

Other: Tours to various grade school, high school, and college classes; Field Museum New Staff and Volunteer Orientation; Field Museum Development Office; many "Sue" tours.

**William D. Turnbull**

Media Development: Assessment of the Archer report to World Heritage on Australia's two reserves (Riverleigh and Victoria Cove), at request of Australian Government.

**Meenakshi Wadhwa**

Exhibit Development: Content Specialist for Grainger Gallery of Meteorites Exhibit; Consulted in updating information in Earth Sciences Hall; Consulted for Mars Rocks Exhibit at Adler Planetarium

Education Programs: Tour of Gem Room to the Chicago Rocks and Minerals Society.

Public Presentations: Invited talk, Sigma XI Chapter at the University of Illinois at Chicago; Womens' Board "Evenings of Discovery"; presentation to Field Associates.

Media Development: Guest on "848", WBEZ Radio; featured in Newton's Apple Multimedia Production for Teachers, Twin Cities KTTV Public Television

**DEPARTMENT OF ZOOLOGY**

**Margaret Baker**

Education Programs: Field Museum Member's Nights.

Other: Behind the scenes tours for Field Museum Scientific Illustration class, Luther College Invertebrate Zoology class; assisted in preparations for XIV International Congress of Arachnology.

**J. William O. Ballard**

Education Programs: Tuesday at Noon Seminar, Field Museum; Evolutionary Morphology, University of Chicago; Field Museum Members' Nights.

Media Development: Radio interview with Australian Broadcasting Corporation.

Tours and field trips: Madagascar, Reunion Is, Seychelles Is, Hawaii, Tahiti, Ryerson Woods, IL.

**John M. Bates**

Education Programs: Field Museum Members' Night.

Public Presentations: lecture, Chiaravalle Montessori School, Evanston; lecture, North Shore Bird Club, Evanston.

Other: Macomb Senior High School, Macomb; Founders Council Donors.

**Rüdiger Bieler**

Exhibit Development: Consultant: "Underground Adventure"; Content Specialist: "Pearls."

Education Programs: Celebracion.

Public Presentations: in conjunction with World Congress of Malacology, Smithsonian Institution, Washington.

Other: various behind-the-scenes tours for Development etc.

**Barry Chernoff**

Education Programs: Field Museum Members' Nights; Field Museum Family Education Class.

Public Presentations: Invited Lecture, "Exploring South America's Waters", Explorer's Club, NY; Invited Seminar, University of South Florida; University of Chicago, Evolutionary Morphology Seminar Series; Workshop on Phylogeny, Antofagasta Chile; Conservation of Aquatic Biodiversity, Townsville, Australia; American Society for Ichthyologists and Herpetologists; Joint Meetings of Society for the Study of Evolution/Society for Systematic Biology.

Media Development: Bill Kurtis's Documentary on AquaRAP for New Explorers; Magazine interview, *Veija*, Brasil; newspaper interview, Washington Post.

Other: Zoology and ground floor areas for University of Chicago, Field Museum Founders' Council, Field Museum Women's Board, Various behind-the-scenes tours for Development and school groups.

**Thomas Gnoske**

Education Programs: Field Museum Members' Nights; African Heritage Festival.

Public Presentations: Women's Board; British Airways Internat. Sales Conference; Kenya Wildlife Service Wardens Group.

Media Development: Press coverage of Tsavo Lion Project: Daily Southtown; The East African; East African Standard; Daily Nation; Safari Magazine; Chicago Sun-Times; Chicago Tribune; 3 articles in In the Field.

**Shannon J. Hackett**

Education Programs: Field Museum Members' Nights.

Public Presentations: lecture, Chiaravalle Montessori School, Evanston.

Media Development: Newspaper interviews, The San Diego Union-Tribune, San Diego State University Magazine.

Other: Behind-the-scenes tours for Chicago area museum presidents, Alexander Sorokin and Kent Chandler, New Explorers, Bill Nye, Harry Arader, Abbott Labs, Founders Council Donors, President's office groups, various donor and board members; Pritzker Family Picnic organizer.

**Lawrence R. Heaney**

Exhibit Development: Content Specialist, Voyage of a Nation and Vanishing Treasures of the Philippine Rain Forest.

Education Programs: Field Museum Members' Nights; numerous tours of research and collection areas.

Public Presentations: Philippine Centennial celebrations, Biodiversity and Conservation, approx. six lectures.

**Robert F. Inger**

Public Presentations: Three seminars, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia; Invited presentation, Malaysian Nature Society, Sabah, Malaysia.

**Harry G. Nelson**

Education Programs: Field Museum Members' Nights.



**Alfred F. Newton**

Exhibit Development: Occasional content advisor/copy reviewer, Underground Adventure; label reviewer/writer, new butterfly/moth exhibit panels.

Education Programs: Field Museum Members' Nights; arrangements and introduction for public lecture/book signing by Alzada Kistner.

Media Development: Consultant for collection section of WWW butterfly pages; telephone interviews (Asian Longhorned Beetle) for Chicago TV channels WGN (News), WTTW Chicago; newspapers The Reader, Los Angeles Times, etc.

Other: Several behind-the-scenes tours for visitors or students.

**Bruce D. Patterson**

Exhibit Development: plans for Tsavo Interpretive Centre (Kenya); "Man-Eaters of Tsavo" renovation; develop and review text for "Man-eater of Mfuwe and Lion Spearing" exhibit; review text for hall guidebook.

Education Programs: African Heritage '98; Field Museum Members' Nights; "African Summit" planning and public lecture; assemble data and review text for "African Programs Brochure"; "Nature Net" lecture on Tsavo.

Public Presentations: renovation and review of "Man-Eaters of Tsavo" Web site; "The Tsavo Initiative" (Chicago Zoological Society); "The Tsavo Initiative" (Nairobi, Kenya); "The Tsavo Initiative" (Voi, Kenya).

Media Development: Interviews with "New Explorers" (documentary of Kurtis Productions); *Safari* magazine; *Daily Nation* newspaper (Kenya); *Daily Southtown*; *Chicago Tribune*; *Chicago Sun-Times*; *In The Field*.

Other: President's Dinner, Founders' Council, reception for new members; celebration for Peter Crane's election as FRS.

**Martin Prydzia**

Education Programs: Field Museum Members' Nights, Behind-the Scenes Night, Field Trip to Illinois Rapid Assessment Program (IRAP) sites.

Tours and field trips: Various tours of the Division of Amphibians and Reptiles; FM Biodiversity Explorers, FM New Staff and Volunteers, Purdue University Biology Group.

**Cassandra Redhed**

Education Programs: Field Museum Members' Nights.

Tours and field trips: Various tours of the Division of Amphibians and Reptiles; Indiana University; University of Chicago Biology Club, St. Joseph's College.

**Alan Resetar**

Exhibit Development: "Underground Adventure."

Education Programs: Field Museum Members' Nights, Summer World's Tour Camp.

Public Presentations: Indiana Dunes National Lakeshore, Lecture, Biodiversity Explorers.

Tours and field trips: Indiana University, Biodiversity Explorers, one high school group.

**Mary Anne Rogers**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours for McHenry Co. College, Ashwaubenon High School, El Dorado High School, New Staff/Volunteer Orientation tour, Macomb Senior High School, Nachusa Grasslands group, Illinois Natural History Survey, Student Achievement Holiday Salute Tour.

Media Development: Contributor, Women In Science web site.

**Petra Sierwald**

Exhibit Development: Content Specialist, "Underground Adventure;" participant, "Women in Science" exhibit and Web site.

Education Programs: Behind the Scenes Tour, Founders' Council; Field Museum Members' Nights, University of Chicago student group tour.

**John Slapcinsky**

Education Programs: "It's Wild in Chicago"; family and group overnights.

Tours and field trips: Behind the scenes tour for Biodiversity Explorers interns.

Other: organized workshop on "Terrestrial mollusks of southern Appalachians" for state and federal land managers of the southeast U.S.; conducted workshop on local land snails for Urban Watch.

**William T. Stanley**

Education Programs: Field Museum Members' Nights; Field Museum African Heritage; Field Museum Museology course.

Public Presentations: University of Illinois at Chicago Biology Colloquium (twice); First National Plaza; Windy City Grotto Club; Research Board, Inc.

Tours and field trips: Numerous tours including Museum Trustees, Bill Nye, Field Associates, Field Museum Development, Western Illinois University Marine Mammalogy Class, University of Illinois, Urbana-Champaign Mammalogy Class

Other: "Evenings of Discovery," Field Museum Womens' Board.

**Daniel A. Summers**

Exhibit Development: "Asian Longhorn beetle", Consultant, Interactive development "Living Colors", Searle Lounge "Donated Collections Insect Collections", "Underground Adventure" Consultat and Preparator, Pacific Hall "Collecting in WWII".

Education Programs: Field Museum Members' Nights (Organizer), It's Wild In Chicago, Trapped in Amber, Dinosaurs and More, Science Olympiad (National Supervisor).

Media Development: Newspaper interviews, *Tribune*, *Sun Times* "Asian Longhorn Beetle", Radio interviews, WGN & WBBM "Asian Ladybird beetles", and "Asian Longhorn Beetles", Field Museum Web Site, "Asian Longhorn Beetle."

Tours and field trips: Boy Scouts troop 14, Reedsburg, Wisconsin.

Other: Behind-the-scenes tours for International Conservation Students, school groups, etc.

**Kevin Swagel**

Education Programs: Field Museum Members' Nights.

Tours and field trips: Cook Grade School; Conservation Training Consortium; Biodiversity Explorers; new staff and volunteer behind the scenes tour.

**Margaret K. Thayer**

Exhibit Development: Content Specialist and content contributor, "Underground Adventure;" Content Specialist, "Living Colors" butterfly www pages; Participant, "Women in Science" www pages; Label reviewer/writer, new butterfly/moth exhibit panels.

Education Programs: Field Museum Members' Nights; guide in "Living Colors", Educators' Year-End event, Field Museum; lecture, Bug Camp program, Field Museum; Urban Watch beetle protocol and www page development, Field Museum; lecture, Biodiversity Explorers and interns, Field Museum.

Public Presentations: lecture, IRAP workshop, Field Museum; lecture, Illinois Renewable Resources Conference; lecture, Noon Balloon series, Field Museum.

Media Development: "Living Colors" press contact (interviewed by *Chicago Tribune*, *Chicago Sun-Times*, Copley News service, WGN TV, local cable-access TV station, several suburban papers); Content Specialist for www butterfly pages.

Tours and field trips: University of Chicago Club of Metropolitan Chicago, tour of "Living Colors"; International Congress of Arachnology, field trip to Palos Hills (Swallow Cliff study area).

Other: Behind-the-scenes tour for Biodiversity Explorers and interns; behind-the-scenes presentation for Marmon group.

**Janet R. Voight**

Exhibit Development: Contributor, Women in Science.

Public Presentations: lecture, Hatfield Marine Science Center, Oregon State University, Newport, OR.

Media Development: Radio interview, "News Now," Voice of America; Radio interview, Australian Broadcasting Corporation; radio fact checker, Canadian Broadcasting Corporation; newspaper

interviews, *New York Times*, *Washington Post*, Magazine interviews, *Natural History*, Galactic News service (Children's magazine).

Other: Behind-the-scenes tours for University of Illinois - Chicago Undergraduate Biology Colloquium, Field Museum Biodiversity Explorers program, Honors section University of Chicago Introduction to Biology course.

### **Harold Voris**

Education Programs: Field Museum Members' Nights.

Public Presentations: two presentations, American Society of Ichthyologists and Herpetologists; presentation, Indiana Academy of Sciences; invited presentation, Field Museum; invited presentation; Prince of Songkla University, Hat Yai Campus, Thailand.

### **Mark W. Westneat**

Education Programs: Coral Reefs: Animals and Ecology, presentation to Lexington Elementary School 4<sup>th</sup> grade class, Lexington, KY.

### **David Willard**

Education Programs: African Heritage Festival; Family Behind the Scenes in the Bird Division; Museology; Dinosaurs and More Festival

Public Presentations: Nature Network; Women's Board; Chicago Ornithological Society; Fort Dearborn Audubon Society; Dewey School, Evanston.

Media Development: newspaper interview, *Chicago Tribune*; research notes, *Chicago Wilderness*; radio interview, Great Lakes Radio Consortium.

Tours and field trips: Field Museum leader for member's Galapagos tour; tours of collection for President's Office, Development Office, Academic Affairs, Kellogg Foundation

## **CENTER FOR CULTURAL UNDERSTANDING AND CHANGE**

### **Jacqueline M. Carter**

Media Development: Radio interview, National Public Radio.

Tours and field trips: Corporate diversity education Field Trips as part of the "Living Together" Corporate Diversity program: Lucent Technologie, AMOCO, Worksite Wellness Council, Harris Bank, ABBOTT Labs, FMC's Corporate Foundation group, and Shell Oil.

### **Madeleine Tudor**

Educational Programs: "Living Together" Corporate Diversity Program, Field Museum Members' Nights, British Airways "Inspiring People" Education Event; Co-Developer of "Living Together" educational materials.

Public Presentations: "Take our Daughters to Work Day," Federal Reserve Bank of Chicago; Special Living Together Presentation to the University of Illinois Alumni Association.

Media Development: Field Museum Web Site for "Living Together" exhibit.

Other: Developed *The Anthropology Collections of The Field Museum* catalogue.

## **OFFICE OF ENVIRONMENTAL AND CONSERVATION PROGRAMS**

### **Carol Fialkowski**

Public Presentations: National Conference: Retrofit Opportunities for Water Resource Protection in Urban Environments, Chicago, IL; Palm Beach County's Environmental Network, Palm Beach, FL; Biodiversity Project Advisors' Forum, Washington, D.C.; Illinois Renewable Natural Resources Conference, Springfield, IL; U.S. Forest Service's Conservation Education State Cooperators Meeting, Nashville, IN; North American Association for Environmental Education, Atlanta, GA; Association of Science and Technology Centers, Edmonton, Alberta, Canada.

**Robin B. Foster**

Education Programs: Field Museum Members' Nights.

Public Presentations: Lecture, CI Board Meeting; Explorers Club, N.Y.; lecture, Biodiversity Explorers interns, Field Museum; poster, MERCOSUR meeting, Field Museum.

Tours and field trips: Field Museum Women's Board Tour, Panama.; Latin American Mellon Foundation Interns, field trips to: River Forest, Ryerson Woods, Turkey Run, Morton Arboretum, Warren Dunes, Warren Woods, Mud Lake Bog, Clear Lake.

Other: Development of botanical training trails, Zabalo, Cuyabeno Reserve, & Yasuni Scientific Research Station, Ecuador. Production of preliminary color guide to 120 common tree & shrub species of Rio Tiputini, Ecuador. Production of Emergency field guides to: Moquegua, Peru; Guaviare, Colombia; Cerro Campana, Panama; Yasuni, Ecuador; Cañete, Peru; Chuquisaca, Bolivia; Cerro Patamban, Mexico; and Aquatic Plants of South America.

**Douglas F. Stotz**

Education Programs: Field Museum Members' Nights.

Public Presentations: Illinois Ornithological Society, Field Museum Women's Board, Tuesday at Noon Seminar.

Public Presentations: invited presentation, Brazilian Ornithological Congress; oral presentation and poster presentation, American Ornithologists= Union; poster presentation, Illinois Renewable Natural Resources Conference

Media Development: New Explorers television program on Chicago Wilderness; newspaper interviews for Chicago Tribune, Associated Press

**Sophia B. Twichell**

Exhibit Development: Member, "Chocolate" Exhibit Committee

Education Programs: African Heritage Festival; Members' Night; Celebracion; the Great Interchange Experience Station (content and graphics); training Education Department volunteers on the Great Interchange Experience Station and orientation to *Plants of the World* exhibit.

Tours and field trips: Nature Network program on food plants; Mushroom program with Field Associates.

Public Education: web site on NPI, *Plants of the World* exhibit hall, and Timothy Plowman Economic Botany collection. <http://www.fmnh.org/candr/ecp/npi>.

**CONTRIBUTIONS TO PUBLIC LEARNING, II, 1998**  
**(UNIVERSITY/HIGH SCHOOL EDUCATION)**

**DEPARTMENT OF ANTHROPOLOGY**

**Bennet Bronson**

Graduate Students Advised: Magnus Fiskesjo, University of Chicago; Iman Saca, University of Illinois at Chicago; Michael Flecker, National University of Singapore.

Undergraduate Interns : Alice Yao, University of Chicago, Jack Chiu, University of Illinois at Chicago.

High School Interns: Anthony Nuval, Illinois Mathematics and Science Academy; Derek Haas, Illinois Mathematics and Science Academy; Erica Griffin, Rich South High School.

Seminars, symposia, etc.: Speaker, Fujian Ceramics and their Trade in Southeast Asia Conference, Museum of Asian Civilizations, Singapore; Co-Chair, Asian Ceramics Conference, Field Museum/ACRO, Chicago.

Courses: "Ancient Technology" (graduate course) University of Illinois at Chicago.

**Winifred Creamer**

Courses: "Archaeological Method and Theory" (graduate course), Northern Illinois University; "North American Indians" (graduate course), Northern Illinois University.

**Jonathan Haas**

Graduate Students Advised: Jun Hong, University of Illinois at Chicago; Mary Futrell, University of Illinois at Chicago.

Undergraduate Interns: Marlene McCabe, The School of the Art Institute; Nodwesi Redbear, The School of the Art Institute; Tressa Bidelman, University of Illinois at Chicago.

Seminars, symposia, etc.: Invited paper on Bringing the Past to Life: Archaeology Exhibits for the 21st Century presented at symposium on Museography for the 21st Century sponsored by the National Museums of Spain; Presentation on Modeling the Pristine Emergence of Complex Polities in Peru at the Santa Fe Institute; Invited paper on Pueblo Political Organization in 1500: Tinkering with Diversity presented at the Annual Meeting of the Society for American Archaeology.

Courses: "The Evolution of Cultural Complexity" (graduate course), University of Illinois at Chicago.

Trainees: Aaron Wenzel, Alan Liu, Illinois Mathematics and Science Academy.

**Chuimei Ho**

Seminars, symposia, etc.: Organizer and speaker, Fujian Ceramics and their Trade in Southeast Asia conference, Asian Civilisations Museum, Singapore; Speaker, Cultural Responses to Globalization Symposium, EU-Japan Fest Japan Committee, Stockholm, Sweden; Organizer and speaker, Asian Ceramics Conference, Field Museum/ACRO, Chicago; Panelist, Ceramic Ecology Group, American Anthropological Association Annual Meetings, Philadelphia, PA.

**Janice Klein**

Seminars, symposia, etc.: University of Chicago Repatriation class; Columbia College Chicago Museum Studies class; Knox College Museum Studies class.

Undergraduate Interns: Gerard Arroyo, Instituto Nacional de Antropologia e Historia; Christina Halperin, Northwestern Univ.; Rebecca Dickson, School of the Art Institute.

Courses: "Archaeological and Ethnographic Core Curriculum" (undergraduate course), Campbell Center for Preservation Studies, Mount Carroll, IL.

**Chapurukha M. Kusimba**

Graduate Students Advised: Gilbert Oteyo, University of Oxford; David Wright, University of Illinois at Chicago; Mario Longoni, University of Illinois at Chicago; Jeremy Prestholdt, Northwestern University; Deborah Stokes Hammer, Columbia College; Ellen Quinn, University of Illinois at Chicago; Iman Saca, University of Illinois at Chicago; Karen Privat, University of Sheffield; Iman Shehadi, University of Illinois at Chicago.

Undergraduate Interns: Emily Renschler, University of Pennsylvania; Briana Pobiner, Rutgers University; Janice Wing, Bryn Mawr College; David Royce Braun, Rutgers University; Alison Hawkes, Haverford College; Tramayne Butler, Univ. of Illinois - Chicago; Rita Mugao, University of Nairobi; Benson Odeny-Obul, National Museums of Kenya; Angela Kabiru, National Museums of Kenya.  
High School Interns: Katie Meyer, Indiana University; Jennifer Kolnic, Beloit College; Jessica Westphal, DePaul University.

**Anna C. Roosevelt**

Graduate Students Advised: Ellen Quinn, University of Illinois - Chicago.  
Undergraduate Interns: Mark Baldrige, University of Illinois at Chicago; Theodore Kosmatka, University of Illinois - Chicago; Diedre Paterno, University of Illinois - Chicago.

**Catherine Sease**

Undergraduate Interns: Maria Berman, New York University; Bronwyn Lloyd, Buffalo State College.  
High School Interns: Jennifer Francis, The Putney School, Vermont.  
Trainees: Megan Goldman; Carole Havlik.  
Courses: "Archaeological and Ethnographic Core Curriculum" (undergraduate course), Campbell Center for Preservation Studies, Mount Carroll, IL.  
Seminars, symposia, etc.: Invited presentation, Science, Illinois Institute of Technology.

**John Edward Terrell**

Undergraduate Interns: Deepthi Chilakapati, Kalamazoo College; Hae Young Lee, Loyola University of Chicago; Mark Lush, Oberlin College; Sarah Morby, Lake Forest College; Danny Nolan, Northwestern University; Elizabeth Pagano, University of Arizona.  
Courses: "The Pacific Islands: Islands, People, and History" (advanced seminar course), University of Illinois - Chicago.  
Seminars, symposia, etc.: Symposium on "Fictive Kinship," American Anthropological Association; lecture, Archaeological Institute of America, Milwaukee society; Dartmouth College, Hanover, NH.

**Alaka Wali**

Graduate Students Advised: Michael Hudson, University of Illinois at Chicago; Sharon Peniston, University of Illinois at Chicago; Eric Moeller, University of Chicago.  
Undergraduate Interns: Elizabeth Babcock, Gabe Culbert, Jennifer Fox, Ian Kerrigan, Mario Longoni, Melissa Murray, Sara Musallam, Patricia Williams, Abigail Baim-Lance, Dedric Collins.  
High School Interns: Lea Mossena, University of Chicago High School  
Courses: "Urban Cultural Problems" (graduate course), University of Illinois at Chicago.  
Seminars, symposia, etc.: Society for Applied Anthropology; American Anthropological Association Annual Meeting; American Association of Museums annual meetings; Loyola University Conference on Metropolitan Research initiatives; invited presentation, the Conservation Training Consortium, University of Illinois - Chicago; invited presentations, Anthropology Department weekly graduate seminar, University of Illinois - Chicago; invited presentation, University of Chicago Working Group on Latin America; invited lecture, the Centers for Disease Control Division of Reproductive Health.

**Robert Welsch**

Courses: "Introduction to Anthropology" (undergraduate course), "Introduction to Cultural Anthropology" (undergraduate course), "Medical Anthropology" (undergraduate course), Dartmouth College, Hanover, NH.

**DEPARTMENT OF BOTANY**

**William C. Burger**

Graduate Students Advised: Marian Kadushin, University of Illinois at Chicago; Mark Johnston, University of Illinois at Chicago

**Michael O. Dillon**

Seminars, symposia, etc.: Seminar, Universidad Privada Antenor Orrego, Trujillo, Peru; Invited Conference Address, Peruvian Botanical Congress, Universidad Nacional de Cajamarca, Cajamarca, Peru; Seminar, Universidad Nacional Mayor de San Marcos, Escuela de Post-Grado de Ciencias Biológicas, Lima, Peru; Seminar, Universidad Nacional San Agustín de Arequipa, Facultad de Ciencias Agrarias y Biológicas, Arequipa, Peru; Seminar, Universidad Nacional San Antonio Abad del Cuzco, Facultad de Ciencias Biológicas, Día del Biólogo Peruano Celebración.

**Andrew Douglas**

Seminars, symposia, etc.: Japanese woods and their cultural significance to cabinetry, The Field Museum; University of Tulsa, Oklahoma; Flower Evolution in Proteaceae: Is it one of "Nature's early experiments in flowering"?, Summer Seminar Series, The Field Museum; Floral evolution in Proteaceae, Colloquium Series, The University of Wisconsin, Madison; Flower Evolution in Proteaceae: Is it one of "Nature's early experiments in flowering"? Flora of Australia Symposium, University of California, Santa Cruz.

Courses: Plant Phylogenetics (BioS 233), University of Illinois at Chicago, Lecturer and Laboratory Organizer.

**Robin B. Foster**

(See Environmental and Conservation Programs)

**Sabine M. Huhndorf**

Graduate Students Advised: Andrew Miller, University of Illinois at Chicago.

**Thomas G. Lammers**

Courses: "Natural History of the Amazon", Amazon Center for Environmental Education and Research, Iquitos, Peru (for Miami University); Plant Taxonomy, College of DuPage.

**Patrick R. Leacock**

Undergraduate Interns: Sonja Berg, (prospective student for University of Wisconsin, Madison).

High School Interns: Guerino Bruno, Brother Rice High School, Chicago; Erica Fierro, Seton Academy, Chicago; Belinda Hernandez, Cristo Rey High School, Chicago; Siyi Li, Senn Metro Academy, Chicago; Ryan Meher, Prospect High School, Mt. Prospect.

Seminars, symposia, etc.: Mycological Society of America Annual Meeting, San Juan, Puerto Rico.

**Sarah T. Long**

Courses: Botany 201, Richard J. Daley College.

Seminars, symposia, etc.: Animal Behavior Society.

**François M. Lutzoni**

Graduate Students Advised: Mike Alfaro, University of Chicago; Keith Barker, University of Chicago; Jutta Buschbom, University of Chicago; Rachel Collin, University of Chicago; Scott Kroken, University of California at Berkeley; Jolanta Miadlikowska, University of Gdansk, Poland; Andrew Miller, University of Illinois at Chicago; Link Olson, University of Chicago; Valérie Reeb, University of Illinois at Chicago; Rebecca Rincker, University of Illinois at Chicago; Stephan Zoller, University of Zurich, Switzerland.

Trainees: Fernando Fernandez, FMNH postdoctoral researcher; Shoyu Guo, Chinese Academy of Sciences, Beijing, China; Jolanta Miadlikowska, University of Gdansk.

Courses: Reading, Evolutionary Biology Course 496, University of Chicago; Introduction to Research at The Field Museum (Evolutionary Biology 388), one lecture, University of Chicago; Symbiosis (Topics in Biological Sciences 594), University of Illinois at Chicago.

Seminars, symposia, etc.: Symposium Organizer and Speaker, Sixth International Mycological Congress, Jerusalem, Israel; Annual Meeting, Mycological Society of America, Puerto Rico, two presentations; Annual Meeting, Society of Systematic Biologists, Vancouver, Canada, one presentation; Invited Organizer of Discussion Forum and Speaker, Symposium, Karl-Franzens-Universität Graz, Austria; Invited Speaker, Department of Botany, University of Wisconsin at Madison; Invited

Speaker, Swiss Federal Research Institute of Forest, Snow and Landscape, Birmensdorf, Switzerland; Invited Speaker, Department of Biology, University of Oregon; Invited Speaker, Department of Botany and Plant Pathology, Oregon State University.

Others: Organizer, Weekly Lichenology Discussion Group, The Field Museum.

### **Gregory M. Mueller**

Post-Doctoral Associate: Patrick Leacock.

Graduate Students Advised: John Paul Schmit, University of Chicago; Laura Guzmán, UNAM, Mexico; Lisa Gades, University of Chicago; Andrew Miller, University of Illinois at Chicago; Jutta Buschbom, University of Chicago.

Trainees: Deborah Aruguete, University of Chicago; David Quist, University of Washington, Seattle; Todd Osmundson, University of Montana; Sonja Berg, University of Wisconsin, Madison; Biodiversity Explorers: Guerino Bruno, Brother Rice High School, Chicago; Erica Fierro, Seton Academy, Chicago; Belinda Hernandez, Cristo Rey High School, Chicago; Siyi Li, Senn Metro Academy, Chicago; Ryan Meher, Prospect High School, Mt. Prospect.

Courses: "Ecology and Evolution" (undergraduate course), (BioSci 128 & 131), University of Chicago; "Fungal Mutualisms" (graduate seminar), (BioSci 594), University of Illinois at Chicago.

Seminars, symposia, etc.: Invited presentation, Chinese Academy of Sciences, Beijing, China; invited presentation, Harvard University Herbarium, Harvard University, Cambridge; lecture, Research at Field Museum Seminar, University of Chicago; lecture, College of Pharmacy, University of Illinois at Chicago; International Congress on Mycorrhizae, Sweden; Mycological Society of America, Puerto Rico; Co-organizer, Workshop on National Fungal Inventory, Costa Rica.

### **Kathleen M. Pryer**

Trainee: Jean-Yves DuBuisson, Post-Doctoral candidate Université Pierre et Marie Curie, Paris.

Graduate Students Advised: Susana Magallon-Puebla, University of Chicago; Valérie Reeb, University of Illinois at Chicago.

Undergraduate Interns: Ankur Vaghani, University of Illinois at Chicago; Harit Bhatt, University of Illinois at Chicago.

Seminars, symposia, etc.: invited symposium presentation, International Society of Evolutionary Protistology (ISEP), Northern Arizona University, Flagstaff (with S. Turner and J. D. Palmer); organizer, Green Plant Phylogeny Research Coordination Group Workshop on Pteridophytes, The Field Museum.

### **Jacinto C. Regalado, Jr.**

Courses: "Contemporary Ethnobotany" college Botany program, Morton Arboretum and associated colleges of the Chicago area.

### **Djaja Djendoel Soejarto**

Graduate Students Advised: Marian Kadushin, University of Illinois at Chicago; Mark Johnston, University of Illinois at Chicago; Alex Hamill, University of Illinois at Chicago; Sara Peterson, University of Illinois at Chicago; External Examiner, Ph.D. Dissertation, Daniel Tsi, The National University of Singapore.

Courses: Special mini-course offering (8 hours) "Drug Discovery from Plants" (60 registered participants of the "XXV Congreso Centroamericano y del Caribe de Ciencias Farmacéuticas" (Tegucigalpa, Honduras); "Taxonomy and Chemical Basis of Drugs", College Botany Program, Morton Arboretum and Associated Colleges of the Chicago Area (undergraduate, Coordinator); "Contemporary Pharmacognosy" (undergraduate, Coordinator), University of Illinois at Chicago; "Correlative Phytochemistry" and "Research Techniques in Pharmacognosy", University of Illinois at Chicago (graduates, Co-lecturer).

Trainees: Dr. J.C. Regalado, Post-Doctoral Associate, Botany Department, Field Museum and University of Illinois at Chicago; Dr. Nguyen Van Hung, National Center for Science and Technology, Hanoi, Vietnam.

Seminars, symposia, etc.: Invited presentations: University of Sao Paulo, Sao Paulo, Brazil; National Center for Science and Technology, Hanoi, Vietnam; National Center for Science and Technology, Hanoi, Vietnam; Department of Environment and Natural Resources, Manila, Philippines; Colegio Farmaceutico, Tegucigalpa, Honduras; Department of Pharmacology, National University of



Singapore, Annual Honors Convocation, College of Pharmacy, University of Illinois at Chicago seminar presentation, Research Institute of Medicinal Plants, Vientiane, Laos; invited seminar, Department of Chemistry, Olivette Nazarene University, Kankakee, Illinois; ICBG public presentations, Research Institute of Medicinal Plants, Vientiane, Laos, and National Center for Science and Technology, Hanoi, Vietnam, and in Cuc Phuong National Park, Ninh Binh Province, Vietnam.

### **Quixin Wu**

Undergraduate Interns: David Quist, University of Washington, Seattle; Todd Osmundson, University of Montana.

Seminars, symposia, etc.: Invited presentation, Chinese Academy of Sciences, Beijing, China; Mycological Society of America, Puerto Rico.

## **DEPARTMENT OF GEOLOGY**

### **John R. Bolt**

Seminars, symposia, etc.: Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah.

### **Gregory A. Buckley**

Course: Seminar in the Natural Sciences, Roosevelt University.

Seminars, symposia, etc.: Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah.

### **Peter R. Crane**

Graduate Students Advised: Hallie Sims, University of Chicago; Susanna Magallon-Puebla, University of Chicago; Melinda Brady, University of Chicago.

Post-Doctoral Associates: Richard Lupia, Andrew Douglas.

Seminars, symposia, etc.: Visiting Professor, University of Vienna; Visiting Professor, Kagawa University.

### **Darin Croft**

Course: "Human Morphology," University of Chicago

Seminars, symposia, etc.: Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah; Annual Meeting, American Society of Mammalogists, Blacksburg, Virginia; Graduate Student Forum on Evolutionary Biology, University of Chicago

### **Marlene Hill Donnelly**

Course: Scientific Illustration, Field Museum

### **John J. Flynn**

Post-Doctoral Associate: Michael Nedbal.

Graduate Students Advised: Doreen Covey, Mahesh Gurung (both University of Illinois – Chicago); Darin Croft, Gina Wesley, Link Olson, Francesca Smith (all University of Chicago).

Undergraduate Interns: Johnny Hsu, University of Chicago; Suzy Slominski, University of Illinois at Chicago; Anne Kehoe, Malcolm X College; Robin Whatley, University of California-Santa Barbara; Karen Sears, University of Chicago.

Courses: "Evolution: Genes, Individuals, Populations, and Groups", University of Chicago; University of Chicago, "UnCommon Core" class; lecture, University of Chicago, Committee on Evolutionary Biology, "Introduction to Research at the Field Museum."

Seminars, Symposia, etc.: Co-organizer and presenter, "Humankind's Evolutionary Roots: Our Place in Nature," The Field Museum; Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah; Annual Meeting, American Society of Mammalogists; The Field Museum, 21<sup>st</sup> Annual A. Watson Armour III Spring Systematics Symposium.

### **Lance Grande**

Graduate Students Advised: Eric Hilton, University of Massachusetts; Kathrin Dietze, Johannes-Gutenberg University, Mainz, Germany; Kenshu Shimada, University of Illinois; Marius van der Merwe, University of Illinois.

Course: "Systematics and Evolutionary Theory," University of Illinois, Chicago, fall semester.

Seminars, symposia, etc.: Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah; Loyola University, Chicago; University of Massachusetts.

### **Scott Lidgard**

Post-Doctoral Associates: Steven Hageman

Trainees: Suzan Slominski, University of Illinois at Chicago; Rebecca Conant

Seminars, symposia, etc.: Plenary Speaker, field work, International Bryozoology Association Meeting; Panama, "Species Recognition in Bryozoans"; Workshop co-organizer, International Bryozoology Association Meeting; Panama, "Databases for Bryozoan Systematics, Paleontology and Ecology"

### **Richard Lupia**

Courses: Guest lecturer, BioSci233, Plant Phylogenetics (Univ. Illinois, Chicago); Guest lecturer, EvBio388, Introduction to The Field Museum (Univ. Chicago).

Seminars, symposia, etc.: invited talk, University of Melbourne; two talks, Botanical Society of America, Baltimore; talk, Geological Society of America, Toronto.

### **Olivier C. Rieppel**

Courses: Phylogenetic Systematics, Northwestern University; Paléontologie des Vertébrés", University of Antananarivo; Mesozoic Marine Reptiles, University of Chicago.

Graduate Students Advised: Hans Larsson, Paul Magwene, Robin O'Keefe, University of Chicago.

Seminars, symposia, etc.: Seminar, George Washington University, Washington, DC; Epicontinental Triassic International Symposium, Halle; lecture, University of Illinois at Chicago; seminar, Yale University; Field Museum "Tuesdays at Noon" seminar; Biogeography Discussion Group, University of Michigan; Society of Vertebrate Paleontology Annual Meeting, Snowbird, Utah.

### **William D. Turnbull**

Graduate Student Advised: Darin Croft, University of Chicago.

### **Meenakshi Wadhwa**

Interns: Shelly Ericksen

Undergraduate Interns: Noel Heim, University of Chicago.

Course: GeoSci220 "Magmatism in the Early Solar System," University of Chicago.

Seminars, symposia, etc.: Invited seminar, University of Chicago; Invited seminar, Carnegie Institution of Washington; presentation, Lunar and Planetary Science Conference; presentation, Annual Meteoritical Society Meeting; presentation, invited presentation, Protostars and Planets IV Conference.

### **Gina D. Wesley**

Seminars, Symposia, etc.: Society of Vertebrate Paleontology Annual Meeting, Snow Bird, Utah; Graduate Student Seminar, Evolutionary Biology.

### **Peter J. Wagner**

University of Chicago.

Graduate Students Advised: Andrea Lofgren, University of Illinois; Jonathon Marcot, Robin O'Keefe, Rebecca Price, Christian Sidor, University of Chicago.

Courses: Biodiversity Grant course, University of Chicago; Rebecca Price, University of Chicago.

Seminars, Symposia, etc.: invited lecture, University of Chicago; Hinds Fund committee, University of Chicago.

## DEPARTMENT OF ZOOLOGY

### **J. William O. Ballard**

Graduate Students Advised: Matt Dean, University of Illinois at Chicago.

High School Interns: Andrew Greenlee, Latin School; Anna Bohrer, Latin School; Antonio Guillen, Ancona School; Cortez Cobb, Chicago Heights High School; Jonathyn Owens, Ancona School; Joy Norris, Ancona School; Leah Smaller, Ancona School; Will Jobe, Francis Parker High School.

### **John M. Bates**

Graduate Students Advised: Jaqueline Goerck, University of Missouri, St. Louis; Jorge Perez, University of Missouri, St. Louis; Jose Tello, University of Illinois, Chicago; Norbert Cordiero, University of Illinois, Chicago; Rachel Collin, University of Chicago; Erik Rothaker, DePaul University, Ben Marks, Illinois State University, Normal

Undergraduate Interns: Stephanie Scott, University of Illinois - Chicago; Noah Arvidson, Fort Lewis College

Courses: "Natural Science 105" (undergraduate course), University of Chicago

Seminars, symposia, etc.: Co-organizer, Field Museum Spring Symposium; Co-organizer, symposium, XXII International Ornithological Congress, Durban, South Africa; St. Louis, American Ornithologists' Union Annual Meeting, Invited presentation, Department of Ecology and Evolutionary Biology, University of Illinois, Champaign; invited presentation, Introduction to research at Field Museum, University of Chicago.

### **Rüdiger Bieler**

Graduate Students Advised: Roberto Cipriani, Rachel Collin, Rebecca Mara Price (University of Chicago, Committee on Evolutionary Biology).

Trainees: Sam Weru, Kenya (Advanced Training Program in Conservation Biology).

Courses: CEB 499, Winter/Spring/Autumn (Reading, Graduate Research; Evolutionary Biology), University of Chicago.

Seminars, symposia, etc.: invited presentation, Symposium "Refining Molluscan Characters," World Congress of Malacology, Washington, D.C.; two other presentations at same event; invited presentation, *A. Watson III Spring Symposium*, "Combining molecular and paleontological data: a twofold approach for documenting major evolutionary patterns," Field Museum.

### **Barry Chernoff**

Graduate Students Advised: Michael Alfaro, University of Chicago; Keith Barker, University of Chicago; Richard Blob, University of Chicago; Rachel Collin, University of Chicago; Doreen Covey, University of Illinois at Chicago; Matthew Dean, University of Illinois at Chicago; Amy Driskell, University of Chicago; Melina Hale, University of Chicago; Jeff Janovitz, University of Chicago; Kristina Kaufman, University of Chicago; Rowan Lockwood, University of Chicago; Susana Magallon-Puebla, University of Chicago; Paul Magwene, University of Chicago; Link Olson, University of Chicago; Lisa Rosenberger, University of Chicago; K. Rebecca Thomas, University of Chicago; Mike Tringali, University of South Florida; Joe Walsh, University of Chicago.

Undergraduate Interns: Araceli Acevedo-Valerio, Roosevelt University;

High School Interns: Anna Chlumsky, Oak Park High School; Max Nitze, Morristown, NJ.

Trainees: Ana Maria Lucea, Ecuador; Christinal Cannales, Pamplona, Spain.

Courses: "Systematic Biology," (graduate and undergraduate course), University of Chicago; "Advanced Systematic Biology," (graduate course), University of Chicago.

### **Shannon J. Hackett**

Graduate Students Advised: F. Keith Barker, University of Chicago; Amy Driskell, University of Chicago; Jaqueline Goerck, University of Missouri, St. Louis; Jordan Karubian, University of Chicago;

Ben Marks, Illinois State University, Normal; Melissa Morales-Cogan, University of Chicago; Jorge Perez, University of Missouri, St. Louis.

Courses: BioSci 128 and 131 (undergraduate courses), University of Chicago; guest lecture "Introduction to Research at the Field Museum," (graduate seminar), University of Chicago.

Seminars, symposia, etc.: American Ornithologists' Union Annual Meeting; symposium organizer and participant, International Ornithological Congress, Durban, South Africa.

### **Lawrence R. Heaney**

Graduate Students Advised: Leticia Afuang, University of the Philippines at Los Banos; Blas Tabaranza, University of the Philippines at Los Banos; Melissa Cogan, University of Chicago; Joseph Walsh, University of Chicago; Link Olson, University of Chicago; Jodi Sedlock, University of Illinois at Chicago; Ruth Utzurrum, Boston University

Undergraduate Interns: E. Kate Walker, University of Chicago; Sephanie Linde, Northwestern University

Courses: "Biogeography", University of Chicago.

Seminars, symposia, etc.: Keynote Speaker, Illinois State Academy of Sciences; Guest Speaker, First Philippines Holding Corporation and Museum Volunteers Association of the Philippines, Manila, Philippines; Contributed Paper, Annual Meeting, American Society of Mammalogists, Virginia Polytechnic University; Invited seminar, Boston University

### **Robert F. Inger**

Graduate Students Advised: Satie Airame, University of Chicago.

### **Alfred F. Newton**

Graduate Students Advised: José Luis Navarrete-Heredia, Universidad Nacional Autonoma de México; Juan Márquez Luna, Universidad Nacional Autonoma de México; Yih-Cheng Shiau, University of Illinois at Chicago. Informally: Eugene Hall, University of Arizona & Univ. Nebraska; Nick Porch, University of Colorado & Monash University; Derek Sikes, University of Connecticut, Storrs.

Trainees: Badamdorj Bayartogtokh, University of Mongolia (Advanced Conservation Training course).

Seminars, symposia, etc.: Poster, Entomological Society of America, Las Vegas.

### **Philip P. Parrillo**

Seminars, symposia, etc.: Illinois Rapid Assessment Program - Workshop.

Courses: Museology class, "General Perspectives in Entomology", Field Museum; "Biology of Blattodea", Northwestern University Medical School.

### **Bruce D. Patterson**

Graduate Students Advised: Norbert Cordeiro, University of Illinois at Chicago; Doreen Covey, University of Illinois at Chicago; Matthew Dean, University of Illinois at Chicago; Alex Dehgan, University of Chicago; Carlos Falliari, Universidad de La Plata, Argentina; Tim Koneval, University of Massachusetts; Roselis Mazurek, University of Illinois at Chicago; Jane Norman, University of Illinois at Chicago; Link Olson, University of Chicago; John Ososky, Northern Illinois University; Oliver Perfams, University of Illinois at Chicago; Chris Yahnke, Northern Illinois University; Julie Ann Uherka, University of Chicago.

Courses: "Senior Thesis," and "Studies in Evolutionary Biology," University of Chicago.

Seminars, symposia, etc.: Invited plenary address, Penrose Conference, Solomons, MD; contributed paper, American Society of Mammalogists, Blacksburg, VA (with J. B. Bender, J. W. O. Ballard, and R. L. Wenzel as junior co-authors).

### **Petra Sierwald**

Undergraduate Interns: Elizabeth Lehman, University of Chicago; Michael Crawley, Southern Illinois University; Roman Yukilevich, University of Illinois at Chicago

Graduate Students Advised: Marius van der Merwe, University of Illinois at Chicago.

Seminars, symposia, etc.: invited presentation, University of Illinois at Chicago; organizer, XIV International Congress of Arachnology, Chicago.

**William T. Stanley**

Undergraduate Interns: Christopher Faber, University of Illinois at Chicago; Andrew John, University of Illinois at Chicago; Xiomara Morales, University of Illinois at Chicago; Antonio Olivo, University of Illinois at Chicago; Spring Maleckar, Marion College, Indianapolis

High School Interns: Drew Alt, Evanston High School

Seminars, symposia, etc.: American Society of Mammalogists

**Daniel A. Summers**

Seminars, symposia, etc.: National Supervisor for high school Science Olympiad.

**Kevin Swagel**

High School Intern: Hayley Kahn, New Trier High School.

**Margaret K. Thayer**

Graduate Students Advised: (co-director of thesis) José Luis Navarrete-Heredia, Universidad Nacional Autónoma de México; (committee member) Yih-Cheng Shiau, University of Illinois at Chicago. Informally: Matt Dean, University of Illinois at Chicago; Elizabeth Arias, University of California, Davis.

Trainees: Badamdorj Bayartogtokh, University of Mongolia (Advanced Conservation Training course).

Seminars, symposia, etc.: co-organized symposium, Entomological Society of America meeting, Las Vegas; invited lecture, Advanced Conservation Training course, Conservation Training Consortium.

**Janet R. Voight**

Graduate Students Advised: Amy C. Driskell, University of Chicago; Frank E. Anderson the University of California at Santa Cruz.

Courses: Instructor, "Biology 128; 131" Ecology and Evolution (undergraduate course), Instructor, BioSci 388 Introduction to Research at The Field Museum (graduate course), lecturer BioSci 171 Introduction to Biology (Undergraduate course) University of Chicago.

Seminars, symposia, etc.: Invited presentation, Department of Biology, Loyola University; symposium presentation at: RIDGE, Approaching a decade of Multidisciplinary Science, American Geophysical Union meeting; World Congress of Malacology.

**Harold K. Voris**

Graduate Students Advised: Satie Airame, University of Chicago; Ana Carnaval, University of Chicago; Jake Socha, University of Chicago; Anna Wong, University of Malaysia at Sarawak.

**Mark W. Westneat**

Graduate Students Advised: Michael Alfaro, Brad Wright, Lisa Rosenberger, Jeff Janovetz, Nora Espinoza, Jake Socha (all University of Chicago).

Undergraduate Interns: Dan Dudek, University of Chicago; Fred Neill, University of Chicago.

Courses: Biological Sciences 274 "Comparative and Developmental Morphology of the Vertebrates," University of Chicago.

**David Willard**

Graduate Student Advised: Mary Hennen, Governor's State University.

Courses: African Tropical Biodiversity Program

Seminars, symposia, etc.: College of DuPage; Monmouth College

**CENTER FOR CULTURAL UNDERSTANDING AND CHANGE****Madeleine Tudor**

Seminars, symposia, etc.: Conference on Chicago Research and Public Policy, Loyola University, Chicago, session organizer and panelist; American Anthropological Association Annual Meetings, Philadelphia, session organizer and chair.

## OFFICE OF ENVIRONMENTAL AND CONSERVATION PROGRAMS

### **Carol Fialkowski**

Seminars, symposia, etc.: USA & Japan Symposium on Environmental Learning with Effective Use of Museums, Ibaraki Nature Museum, Ibaraki, Japan; Biodiversity Education Summit, American Museum of Natural History, New York, NY

### **Robin B. Foster**

Graduate Students Advised: Manoel Pacheco, University of Illinois, Chicago; Laura Torres, Northeastern Illinois University. Informal: Kathleen Lowrey, Univ. of Chicago; Doug Yu, Harvard Univ.; Glenn Shephard, U.C. Berkeley; Laura Marsh, Washington Univ.; Jimi Nakajima & Rosanna Romero, Univ. Fed. Uberlandia, Minas Gerais, Brasil; Miguel Alexiades, N.Y. Botanical Garden; Patricia Ojeda, Univ. Missouri St. Louis; Pablo Stevenson, SUNY, Stony Brook; Iñigo de la Selva, Univ. of Michigan;

Undergraduate Interns: Jill Anderson, Illinois RAP, Field Museum and Yasuni Forest Dynamics Project, Ecuador; Sadie Ryan, Rapid Reference Collection, Field Museum, and Yasuni Forest Dynamics Project, Ecuador; Margaret Metz, Rapid Reference Collection, Field Museum and Zabalo/Cofan Project, Ecuador

Trainees: Monica Arakaki, Univ. Nac. San Marcos, Lima, Peru; Maria Sanchez, Univ. Panama; Cesar Marin, Herbario Amazonico Colombiano; Hamilton Beltran, Univ. Nac. San Marcos, Lima, Peru; Gorky Villa, Univ. Catolica de Ecuador; Martha Serrano, PLAFOR, Sucre, Bolivia; Diana Alvira, Fundacion Puerto Rastrojo, Bogota, Colombia. Informal: Catalina Juarez, Museo de Historia Natural, Mexico; Joseph Mutanga, National Museums of Kenya.

Seminars, symposia, etc.: NASA, remote sensing of vegetation meeting, Lake County, IL; Field Museum/Conservation International Andean RAP Program Meeting, Washington, D.C.; Center for Tropical Forest Science Network Symposium, Washington, D.C.; book display table, Commission for Flora Neotropica meetings, Latin American Botanical Congress, Mexico City.

### **Thomas S. Schulenberg**

Course: Africa Tropical Biodiversity Program, Budongo Forest, Uganda.

Trainees: Joseph Amponsah (Ghana), George Amutete (Kenya), Augustus Asamoah (Ghana), Charles Kahindo (Congo), Kizungu Byamana (Congo).

### **Douglas F. Stotz**

Courses: Behavioral Ecology, University of Chicago; invited lecture, Conservation Biology, University of Chicago, Illinois.

Graduate Students Advised: Jacqueline Goerck, University of Missouri, St. Louis; Bill Straussberger, University of Illinois, Chicago; Gitogo Maina, University of Illinois at Chicago; Jodi Sedlock, University of Illinois, Chicago; Norbert Cordeiro, University of Illinois at Chicago, Alexander Dehgan, University of Chicago.

Undergraduate Intern: Sarah Dundas (DePauw College)

Trainee: Franz Rios (Ecuador)

## ACADEMIC AFFAIRS INTERNS, 1998

### HIGH SCHOOL INTERNS

#### Biodiversity Explorers Interns

Guerino Bruno, Brother Rice High School, Chicago; Erica Fierro, Seton Academy, Chicago; Belinda Hernandez, Cristo Rey High School, Chicago; Siyi Li, Senn Metro Academy, Chicago; Ryan Meher, Prospect High School, Mt. Prospect.

#### Other High School Interns

**Anthropology:** Erica Griffin, Rich South H.S.; Derek Haas, Illinois Math and Science Academy; Anthony Nuval, Illinois Math and Science Academy.

**Botany:** Paul Grabowski, New Trier High School.

**Geology:** Melissa Anderson, Homewood-Flossmoor High School; Luigi Cardella, Brother Rice High School; Jennifer Johnson, Queen of Peace High School; Martin Gross, Latin School.

**Zoology:** Anna Bohrer, Latin School; Anna Chlumsky, Oak Park High School; Andrew Greenlee, Latin School; Antonio Guillen, Ancona School; Max Nitze, Morristown, NJ.

### UNDERGRADUATE STUDENT INTERNS

#### Field Museum Scholarship Program Interns

Shelly Ericksen, University of Michigan (Geology/Meteoritics); Stephanie Linde, Northwestern University (Zoology/Mammals); Spring Maleckar, Marian College, Indianapolis, Indiana (Zoology/Mammals); Katharine Meyer, Indiana University (Anthropology); Alice Yao, University of Chicago (Anthropology).

#### National Science Foundation Undergraduate Interns

Debora Arguete, University of Chicago (Botany); Araceli Acevedo-Valerio, Roosevelt University (Zoology); Veronica Arreola, University of Illinois at Chicago (Zoology); Jamie Bender, University of Illinois, Champaign-Urbana (Zoology); Tariq Farooqui, North Park College (Zoology); Nivia Maldonado, University of Illinois at Chicago (Zoology); Flora Waples-Trefil, University of Chicago (Botany); Mary Ellen Ward, University of Illinois at Chicago (Geology); Kavan Yee, North Park College (Geology); Todd Osmundson, University of Wyoming (Botany); David Quist, University of Washington, Seattle (Botany).

#### Prince Scholarship Fund Interns

Abigail Baim-Lance, Haverford University (CCUC/Anthropology); Dedric Collins, Univ. of Illinois – Chicago (CCUC/Anthropology); Emily Walker, University of Chicago (Zoology).

#### Field Museum Native American Intern Program, Anthropology Department

Sorrel Goodwin, Northeastern Illinois University; Marlene McCabe, School of the Art Institute; Nodwsi Redbear, School of the Art Institute.

#### Paul S. Martin Project Interns, Anthropology

Randi Wolf, Colby College; Dan Malone, Western Illinois University; David Grahame, Northwestern University; Ed Maher, Univ. of Illinois – Chicago; Marissa Fontana, Univ. of Illinois – Chicago; Christine Derkacy, Univ. of Illinois – Chicago; Christine Taylor, Arizona State Univ.

#### Other Undergraduate Interns

**Anthropology:** Jeanette Dennis, Grinnell College; Gerard Arroyo, Instituto Nacional de Antropologia e Historia, Mexico; Elizabeth Babcock, Indiana University; Abigail Baim-Lance, Haverford College; Mark Baldrige, Univ. of Illinois – Chicago; Maria Berman, New York Univ.; Tressa Bidelman, Univ. of Illinois – Chicago; Jack Chiu, Univ. of Illinois – Chicago; Gabe Culbert, Univ. of Chicago; Rebecca Dickson, School of the Art Institute; Jennifer Fox, Univ. of Minnesota; Jennifer Francis, Putney School,

VT; Deepthi Chilakapati, Kalamazoo College; Megan Glistler: Lawrence University; Meghan Goldmann, New York Univ.; Christina Halperin, Northwestern Univ.; Ian Kerrigan, Northwestern Univ.; Jennifer Kolnick, Beloit College; Theodore Kosmatka, Univ. of Illinois – Chicago; Hae Young Lee, Loyola Univ.; Christine Lippitt, Northern Illinois Univ.; Bronwyn Lloyd, Buffalo State College; Mark Lush, Oberlin College; Katie Meyer, Indiana Univ.; Sarah Morby, Lake Forest College; Melissa Murray, Univ. of Arizona; Sara Musallam, Univ. of Chicago; Elizabeth Pagano, Univ. of Arizona; Diedre Paterno, Univ. of Illinois – Chicago; Ellen Quinn, Univ. of Illinois – Chicago; Christine Taylor, Jessica Westphal, DePaul Univ. Patricia Williams, Univ. of Illinois – Chicago; Alice Yao, Univ. of Chicago.

**Botany:** Harit Bhatt, University of Illinois at Chicago; Ankur Vaghani, University of Illinois at Chicago; Hanson Ho, Purdue University.

**Geology:** Noel Heim, University of Chicago; Johnny Hsu, University of Chicago; Anne Kehoe, Harold Washington college; Agatha Sajewicz, University of Chicago; David Sepkoski, University of Minnesota; Noel Heim, University of Chicago; Gretchen Moeser, University of Chicago.

**Zoology:** Abraham John, University of Illinois Biology Colloquium; Xiomara Morales, University of Illinois Biology Colloquium; Antonio Olivo, University of Illinois Biology Colloquium; Chris Faber, University of Illinois Biology Colloquium; Joe Clausen, Northeastern Illinois University; Jamie Bender, Boston University; Nuria Bernal, Coleccion Boliviana de Fauna, La Paz, Bolivia.

**Environmental and Conservation Programs:** Christina Bentz, Coe College; Sarah Dundas, DePaul College; Margaret Metz, Princeton University; Jill Anderson, Brown University; Sadie Ryan, Princeton University; Manoel Pacheco, University of Illinois, Chicago.

## OTHER INTERNS

**Geology—Graduate Student Interns:** Kimberly Koverman, University of Illinois at Chicago; Karen Sears, University of Chicago; Robin Whatley, University of California, Santa Barbara

**Environmental and Conservation Programs—Rapid Reference Herbarium Trainees:** Monica Arakaki, Univ. Nac. San Marcos, Lima, Peru; Maria Sanchez, Univ. Panama; Cesar Marin, Herbario Amazonico Colombiano; Hamilton Beltran, Univ. Nac. San Marcos, Lima, Peru; Gorky Villa, Univ. Catolica de Ecuador; Martha Serrano, PLAFOR, Sucre, Bolivia; Diana Alvira, Fundacion Puerto Rastrojo, Bogota, Colombia.



## RESIDENT GRADUATE STUDENTS, 1998

### DEPARTMENT OF ANTHROPOLOGY

Columbia College  
Deborah Stokes Hammer

Northwestern University  
Jeremy Prestholdt

University of Chicago  
Eric Moeller, Magnus Fiskesjo

University of Illinois at Chicago  
Mary Futrell, Jun Hong, Michael Hudson,  
Mario Longoni, Sharon Peniston, Ellen Quinn,  
Iman Saca, Iman Shehadi, David Wright

University of Oxford  
Gilbert Oteyo

University of Sheffield  
Karen Privat

### DEPARTMENT OF BOTANY

University of Chicago:  
Jutta Buschbom, John Paul Schmit

University of Illinois at Chicago:  
James Graham, Frank A. Hamill, Mark Johnston,  
Marian Kadushin, Andrew Miller, Manoel  
Pacheco, Valérie Reeb, Rebecca Rincker

Northeastern Illinois University  
Laura Torres

### DEPARTMENT OF GEOLOGY

University of Chicago  
Melinda Brady, Darin Croft, Susana Magallon-  
Puebla, Jonathan Marcot, Robin O'Keefe, Hallie  
Sims, Gina Wesley

University of Illinois at Chicago:  
Doreen Covey

### DEPARTMENT OF ZOOLOGY

Governors' State University:  
Mary Hennen

Northern Illinois University:  
John Ososky, Jake Soha

Roosevelt University:  
Araceli Acevedo-Valerio

University of Chicago:  
Satie Airame, Michael Alfaro, F. Keith Barker,  
Richard Blob, Matt Carrano, Ana Carnaval,  
Roberto Cipriani, Rachel Collin, Alex Dehgan,  
Amy Driskell, Dan Dudek, Melina Hale,  
Jeff Janovetz, Kate Kelley, Rowan Lockwood,  
S. Kathleen Lyons, Paul Magwene, Melissa  
Cogan-Morales, Link Olson, Lisa Rosenberger,  
Jake Socha, K. Rebecca Thomas, Joseph Walsh,  
Brad Wright

University of Illinois at Chicago:  
Vernonica Arreola, Norbert Cordeiro, Matthew  
Dean, Jodi Sedlock, Yih-Cheng Shiau, Jose Tello,  
Marius van der Merwe, Ramlah Zainudin

University of Missouri – St. Louis  
Jaqueline Goerck

## ACADEMIC AFFAIRS VOLUNTEERS, 1998

### DEPARTMENT OF ANTHROPOLOGY

Rob Adams (Paul S. Martin Project), Elizabeth Beak (New Guinea Research Program), Jennifer Benedict (Registrar), Garland Brown (Collections Management), Shelly Brushuck (Registrar), Rosa Cabrera (MesoAmerican Ethnology & Archaeology), Aloysius Chen (Asian Ethnology & Archaeology), Jack Chiu (Asian Ethnology and Archaeology), Sarah Coleman (Registrar), Joan Connor (Asian Ethnology & Archaeology), Connie Crane (North American Ethnology & Archaeology), Robert Donnelley (Classical Archaeology), Jacqueline Drake (Registrars), Paul DuBrow (Asian Ethnology & Archaeology), Josef M. Duanah (African Archaeology and Ethnology), Peter Gayford (African Ethnology & Archaeology), David Graham (Paul Martin Project), Carole Anne Havlik (Conservation), Jeremy Herrick (Asian Ethnology & Archaeology), Zelda Honor (Registrar), Harold Honor (Registrar), Belen Jaquez (Paul Martin Project), Katharine Kelly (Registrar), Chika Kubota (Asian Archaeology and Ethnology), Lenore Levit (Asian Ethnology and Archaeology, Registrar) Gilbert Levy (Asian Archaeology and Ethnology), Robert T. Lewis (Paul Martin Project), Mario Longoni (African Ethnology and Archaeology), Jack McDonald (New Guinea Research Project), John Manaitis (Registrar), Joseph Marlin (New Guinea Research Project), Daniel Malone (Paul Martin Project), Carolyn Moore (Asian Ethnology and Archaeology), Akiko Nakabayashi (Asian Ethnology & Archaeology), Judy Odland (African Ethnology and Archaeology), Naoko Osawa (Asian Ethnology and Archaeology), Christopher Philipp (African Ethnomusicology), Dorthea Phillipps-Cruz (Collections Management), Phil Ruskin (Asian Ethnology and Archaeology), Barbara Russi (Ethnomusicology), Akiko Saito (Asian Ethnology & Archaeology), Maki Sasaki (Asian Ethnology and Archaeology), Esther Schechter (Oceania Ethnology & Archaeology), Richard J. Schlott (African Ethnology & Archaeology), Brooke Silkey (Paul Martin Project), Laura Simak (Collections Management), Malcolm Smith (Asian Ethnology & Archaeology), Lisa Stringer (African Ethnology & Archaeology), Allison Svoboda (Center for Cultural Understanding & Change), Jennifer Tobin (African Ethnology & Archaeology), Ika Tomaschewsky (Paul Martin Project), Chihiro Torikai (Asian Ethnology and Archaeology), Raya Townsend (Collections Management), Hsi-tsin Taiang (Asian Ethnology and Archaeology), Jean Vondriska (Asian Ethnology & Archaeology), Randi Wolf (Paul Martin Project), Amy Woodward (Paul Martin Project), Amanda Woszczak (Registrar), Edward Yastrow (Prehistoric Archaeology) Ritsuko Yuasa (Asian Ethnology and Archaeology).

### DEPARTMENT OF BOTANY

Alison Ash (Bryology), Andrew Ash (Bryology), Garrett Ash (Bryology), Marshall Ash (Bryology), Helen Bieser (Mycology), Allison Daley (Rapid Reference Collection), Karen Engel (Bryology), Mary Feay (Mycology), Diana Fong (Bryology), Josephine Garcia (Bryology), Linda Glass (Phanerogams), Emily Grimes (Bryology), Hanson Ho (Lichenology), Karen Kaempf (Phanerogams), Dianne Luhmann (Pteridophytes), Vic Maniatis (Rapid Reference Collection), Selwyn Mather (Type Photographs), Samuel Mayo (Bryology), Adele Mehta (Mycology), Alice Pilar (Mycology), Carol Reganhardt (Bryology), Victoria Shelley (Mycology), Daniel Snyder (Phanerogams), Gira Naresh Vashi (Lichenology), Laura Watson (Tropical Plant Imaging Project), Kathryn Young (Bryology), Patricia Zatarain (Bryology).

### DEPARTMENT OF GEOLOGY

Heather Baldwin (Vertebrate Paleontology), Wendy Barrow-Johnson (Fossil Mammals), Terry Becker (Vertebrate Paleontology), Irene Broede (Vertebrate Paleontology), Anjaneen Campbell (Fossil Mammals), Aloysius Chen (Invertebrate Paleontology), Ross Chisholm (Vertebrate Paleontology), Mary Sue Coates (Invertebrate Paleontology), Shelly Ericksen (Invertebrate Paleontology), Lori Grove; Anne Kehoe (Fossil Mammals), Dennis Kinzig (Vertebrate Paleontology), Nancy Klud (Vertebrate Paleontology), Joanne Kluga

(Vertebrate Paleontology), Jacqueline Kozisek (Vertebrate Paleontology), John McConnell (Invertebrate Paleontology), Katherine Megquier (Fossil Mammals), James Mosby; Hedy Turnbull (Vertebrate Paleontology).

#### **DEPARTMENT OF ZOOLOGY**

Tom Anton (Amphibians and Reptiles), Noah Arvidson (Birds), Kirrie Ballard (Insects), Ana Lucia Benitez (Fishes), Anna Bohrer (Insects), Robert Brunner (Amphibians and Reptiles), Sophie Ann Brunner (Amphibians and Reptiles), Renee Buecker (Insects), Peter Buol (Birds), Sidney Camras (Insects), Christina Canales (Fishes), Ana Carnaval (Amphibians and Reptiles), Koel Chatterjee (Insects), Cynthia Clendenin (Mammals), Kevin Clutter (Invertebrates), Julie Coan (Insects), Maria Colavincenzo (Mammals), Rebecca Conant (Mammals), Melissa Cook (Mammals), Meyer Cornis (Insects), Richard De Baz (Fishes), Stephen Dorus (Amphibians and Reptiles), Jack Degner (Mammals), Terry Demos (Mammals), Meredith Dudley (Invertebrates), Stanley Dvorak (Invertebrates), M. Alison Ebert (Mammals), Michelle Eji (Mammals), Ingrid Fauci (Amphibians and Reptiles), Sarah Fanning (Mammals), Regina Garcia (Mammals), Harrison Greene (Insects), Andrew Greenlee (Insects), Henry Greenwald (Invertebrates), Stephen Handy (Insects), Michelynn Hassert (Invertebrates), Lynn Hobbs (Birds), Susan Hodgson (Mammals), Michael Huhndorf (Mammals), Fui Lian Inger (Amphibians and Reptiles), Bo Jap (Birds), Will Jobe (Insects), Hayley Kahn (Fishes), Holly Kapitan (Mammals), Edwin Kapus (Invertebrates), Dorothy Karall (Invertebrates), Mary Kraft (Mammals), Sarah Lansing (Mammals), Irene Lerner (Invertebrates), Armand Littman (Invertebrates), James Louderman (Insects), Leslie Major (Birds), Teresa Mayfield (Amphibians and Reptiles), Kiyoshi Mino (Fishes), Amy Musat (Amphibians and Reptiles), Andrew Novinger (Insects), John Ososky (Mammals), Stephen Parshall (Insects), Jason Petrella (Birds), Dave Pollock (Insects), Kyle Preckwinckle (Insects), Zeus Preckwinckle (Insects), Sheila Reynolds (Mammals), Lizzi Roothaan (Insects), Nina Sandlin (Insects), Karen Sandrick (Amphibians and Reptiles), Sheryl Sokoloski (Invertebrates), Sera Stack (Amphibians and Reptiles), Peter Scharbach (Insects), Nancy Srivatsava (Mammals), Julie Stumpf (Mammals), Brian Traughber (Insects), Donna Tufts (Mammals), Sandy Van Tilburg (Birds), Christine Vittoe (Invertebrates), David Walker (Invertebrates), Laura Zaidenberg (Mammals), Jane Zimmerman (Insects).

#### **OFFICE OF ENVIRONMENTAL AND CONSERVATION PROGRAMS**

Amy Muran Felton (Rainforest Products), Tracy Zinkann (Nature's Pantry), Mary Dell Napier (Nature's Pantry), Allison Daley (Rapid Reference Collection), Vic Maniatis (Rapid Reference Collection), Laura Watson (Tropical Plant Imaging Project).

#### **LIBRARY**

Peter Fortsas, Robert Gowland, Kasia Kipta, China Oughton, Marjorie Pannell, Martha Singer, Worthington Smith.

## HONORARY APPOINTMENTS, 1998

### DEPARTMENT OF ANTHROPOLOGY

#### Adjunct Curators, Anthropology

Brian Bauer, Ph.D., Andean Archaeology  
Winifred Creamer, Ph.D., MesoAmerican and Southwest  
Robert L. Hall, Ph.D., Plains and Midwestern Archaeology and Ethnology  
Chuimei Ho, Ph.D., East and Southeast Asian Art and Archaeology  
Paul Hockings, Ph.D., Southern Asia Social Anthropology  
Lawrence H. Keeley, Ph.D., Europe and North American Paleolithic Archaeology  
Linda Nicholas, M.A., MesoAmerican Archaeology  
James L. Phillips, Ph.D., Old World Prehistory, Epipaleolithic Typology/Technology  
Jack H. Prost, Ph.D., Physical Anthropology and Primate Behavior  
David S. Reese, Ph.D., Archaeozoology  
Robert Welsch, Ph.D., Melanesian and Southeast Asian Ethnology  
Sloan Williams, Ph.D., South American Bioarchaeology

#### Associates, Anthropology

Eloise Richards Barter, M.A., North American Ethnography  
Dorothy Baumgarten, A.A., Asian Material Culture  
William J. Conklin, M.A., Peruvian Architecture and Textiles  
Connie Crane, A.B., North American Ethnology  
Patricia Dodson, M.A., Latin American Archaeology and Ethnology  
Carolyn Moore, B.A., Asian Material Culture  
Ellen FitzSimmons Steinberg, M.A., South American Archaeology, Physical Anthropology  
Frank Yurco, M.A., Egyptology

#### Research Associates, Anthropology

George Henry Okello Abunga, Ph.D., African Archaeology and Ethnology  
Dean E. Arnold, Ph.D., Mesoamerican and South American Archaeology and Ethnology  
Philip J. Arnold III, Ph.D., Mesoamerican Archaeology, Craft Production and Ethnoarchaeology  
Robert Aunger, Ph.D., Central African Ethnology  
Robert C. Bailey, Ph.D., African Biological Anthropology  
Deborah Bakken, Ph.D., East Asian Pleistocene Archaeology and Archaeozoology  
Sibel Barut Kusimba, Ph.D., African Archaeology  
Lane Anderson Beck, Ph.D., Bioarchaeology, Mortuary Analysis, Paleopathology, Paleonutrition  
Robert J. Braidwood, Ph.D., Middle Eastern Archaeology  
James A. Brown, Ph.D., North American Archaeology  
Jane E. Buikstra, Ph.D., Skeletal Biology, Paleopathology, Paleodemography, Forensic Anthropology  
Maria G. Cattell, Ph.D., African Ethnology, Gerontology, Women's Studies  
Marcondes Lima de Costa, Ph.D., South American Geology  
Phillip J.C. Dark, Ph.D., African Ethnology  
Edithe DaSilva Pereira, Ph.D., South American Archaeology  
Raymond J. DeMallie, Ph.D., Kinship, Symbolic Anthropology, Ethnohistory, History of Anthropology; North America  
Richard De Puma, Ph.D., Etruscan Archaeology  
Farouk El-Baz, Ph.D., Remote Sensing, Northern African Geology  
Robert Feldman, Ph.D., Andean Archaeology  
Steven L. Forman, Ph.D., Thermoluminescence Dating, Soil Stratigraphy  
Ann L. Grauer, Ph.D., Physical Anthropology  
Bill Holm, M.F.A., Northwest Coast Art and Material Culture  
F. Clark Howell, Ph.D., Old World Prehistory  
Carolyn Schiller Johnson, Ph.D., Ethnomusicology

Janet H. Johnson, Ph.D., Near Eastern Archaeology  
Shomarka Omar Yahya Keita, M.D., Biological Archaeology  
Dirse Clara Kern, Ph.D., South American Archaeology  
David John Killick, Ph.D., African Archaeology and Metallurgy  
Alan L. Kolata, Ph.D., Andean Archaeology and Ethnohistory  
Lyle Konigsberg, Ph.D., Physical Anthropology  
Elizabeth Ann Lillehoj, Ph.D., Japan, Material Culture  
Charles E. Lincoln, Ph.D., Mesoamerican Archaeology  
Laura Sargent Litten, M.A., Film and Video Production  
Deborah L. Mack, Ph.D., African Diaspora Ethnology, Material Culture  
Luisa Maffi, Ph.D., Linguistics, Mexico  
Maria Estela Mansur, Ph.D., South American Archaeology  
Bertram Mapunda, Ph.D., African Iron Age Archaeology  
Donald E. McVicker, Ph.D., Mesoamerican Archaeology  
Michael E. Moseley, Ph.D., South American Archaeology  
Karega Munene, Ph.D., African Archaeology  
Charles E. Orser, Jr., Ph.D., Historical Archaeology, Ethnohistory, Archaeological Theory  
Douglas W. Owsley, Ph.D., Physical Anthropology  
Joel Palka, Ph.D., Mesoamerican Archaeology  
Nadine Ruth Peacock, Ph.D., African Biological Anthropology  
George I. Quimby, M.A., Museology and North American Culture History  
Johan G. Reinhard, Ph.D., Nepal, Bolivia, Peru  
Mario Rivera, Ph.D., South American Archaeology  
Adelia Maria Engracia Gama de Oliveira Rodrigues, Ph.D., South American Ethnology  
Glenn W. Sheehan, Ph.D., Industrial Archaeology, Arctic Archaeology and Ethnology  
Peter E. Siegel, Ph.D., South American and Caribbean Archaeology  
Fred H. Smith, Ph.D., Physical Anthropology  
Gil J. Stein, Ph.D., Middle Eastern Archaeology, Complex Societies  
Pamela Stewart, Ph.D., Biosocial Anthropology  
Robin Torrence, Ph.D., Aegean and Pacific Archaeology and Ethnohistory  
Nikolaas Johannes van der Merwe, Ph.D., African Archaeology and Metallurgy  
Simiyu Wandibba, Ph.D., African Archaeology and Ethnology  
Yeqiao Wang, Ph.D., Geography, Environmental Studies, China  
Ronald Weber, Ph.D., Amazon Basin and Northwest Coast Archaeology and Ethnology  
Donald Whitcomb, Ph.D., Egyptian Prehistory

## **DEPARTMENT OF BOTANY**

### **Adjunct Curators**

Eve Emshwiller, Ph.D., Ethnobotany  
Robin B. Foster, Ph.D., Vascular Plants  
Sabine M. Huhndorf, Ph.D., Mycology  
Gary L. Smith Merrill, Ph.D., Bryology

### **Visiting Assistant Curator**

Fred R. Barrie

### **Associates**

Lucia Sayre, Ecology  
Betty Strack, M.S., Mycology

### **Field Associates**

Sandra Knapp, Ph.D., Vascular Plants  
Antonio Molina R., Ing. Agr., Vascular Plants

### **Research Associates**

Janis B. Alcorn, Ph.D., Ethnobotany  
John Atwood, Ph.D., Vascular Plants  
Robert F. Betz, Ph.D., Vascular Plants  
Julieta Carranza, Ph.D., Mycology  
Paul A. Colinvaux, Ph.D., Paleoecology  
William T. Crowe, Ph.D.  
Paulo E. De Oliveira, Ph.D., Paleoecology  
Jesús Garcia J., Biol., Mycology  
Nancy Garwood, Ph.D., Vascular Plants  
Sidney F. Glassman, Ph.D., Vascular Plants  
Luis D. Gómez, Mycology  
Patrick Herendeen, Ph.D., Vascular Plants  
Sara Hoot, Ph.D., Vascular Plants  
Michael Huft, Ph.D., Vascular Plants  
Wei Jiang-Chun, Ph.D., Mycology  
Kuswata Kartawinata, Ph.D., Vascular Plants  
Timothy J. Killeen, Ph.D., Vascular Plants  
Jorgé Gómez Laurito, B.S., Vascular Plants  
Blanca Leon, Ph.D., Pteridology  
David P. Lewis, M.S., Mycology  
Maria de Milagro Mata Hidalgo, Mycology  
Rogers McVaugh, Ph.D., Vascular Plants  
John (Jack) Murphy, Ph.D., Mycology  
Cirilo Nelson, Ph.D., Vascular Plants  
Lorin I. Nevling, Jr., Ph.D., Vascular Plants  
Stephen Packard, Ecology  
Patricio P. Ponce de Leon, Ph.D., Mycology  
Jacinto C. Regalado, Jr., Ph.D., Vascular Plants  
Abundio Sagastegui, Ph.D., Vascular Plants  
Isidoro Sanchez V., Ph.D., Vascular Plants  
Rudolf M. Schuster, Ph.D., Bryology  
D. Doel Soejarto, Ph.D., Vascular Plants  
Lawrence R. Stritch, Ph.D., Vascular Plants  
Tod F. Stuessy, Ph.D., Vascular Plants  
Kenneth Young, Ph.D., Vascular Plants

### **DEPARTMENT OF GEOLOGY**

#### **Associates, Geology**

Doris Nitecki, M.A., Fossil Invertebrates

#### **Research Associates, Geology**

Edgar Allin, Ph.D., Fossil Vertebrates  
David Bardack, Ph.D., Fossil Fishes  
William Bemis, Ph.D., Fossil Vertebrates  
Robert Clayton, Ph.D., Meteoritics/Geochemistry  
Andrew Davis, Ph.D., Meteoritics/Geochemistry  
Robert DeMar, Ph.D., Fossil Vertebrates  
Daniel Fisher, Ph.D., Fossil Invertebrates  
Michael Foote, Ph.D., Fossil Invertebrates  
Catherine Forster, Ph.D., Fossil Vertebrates  
Gary Galbreath, Ph.D., Fossil Vertebrates  
Timothy Gaudin, Ph.D., Fossil Mammals  
Terry Grande, Ph.D., Fossil Fishes

Lawrence Grossman, Ph.D., Meteoritics  
Thomas Guensburg, Ph.D., Fossil Invertebrates  
William Hammer, Ph.D., Fossil Reptiles  
James Hopson, Ph.D., Fossil Vertebrates  
David Jablonski, Ph.D., Fossil Invertebrates  
Christine Janis, Ph.D., Fossil Mammals/Other Vertebrates  
David Krause, Ph.D., Fossil Vertebrates  
Michael LaBarbera, Ph.D., Fossil Invertebrates  
Ricardo Levi-Setti, Ph.D., Fossil Invertebrates  
R. Eric Lombard, Ph.D., Fossil Vertebrates  
Ernest Lundelius, Ph.D., Fossil Mammals  
Frank McKinney, Ph.D., Fossil Invertebrates  
J. Michael Parrish, Ph.D., Fossil Reptiles  
Roy Plotnick, Ph.D., Fossil Invertebrates  
David Raup, Ph.D., Fossil Invertebrates  
J. John Sepkoski, Ph.D., Fossil Invertebrates  
Paul Sereno, Ph.D., Fossil Reptiles  
Joseph Smith, Ph.D., Mineralogy  
Alfred Traverse, Ph.D., Fossil Plants/Paleopalynology  
Leigh Van Valen, Ph.D., Fossil Mammals  
André Wyss, Ph.D., Fossil Mammals

#### **DEPARTMENT OF ZOOLOGY**

##### **Adjunct Curators**

Jack Fooden, Ph.D., Mammals  
Julian C. Kerbis Peterhans, Ph.D., Mammals  
Harry G. Nelson, S.B., Insects  
Petra Sierwald, Ph.D., Insects  
Margaret K. Thayer, Ph.D., Insects

##### **Associates**

Peter L. Ames, Ph.D., Syringeal Morphology of Passerine Birds  
Barbara Brown, B.A., Primates  
Sophie Ann Brunner, Preparation of Skeletons  
Sidney Camras, M.D., Systematics of Conopidae  
Ingrid Fauci, Collection Management, Translations  
Fui Lian Inger, Southeast Asian Frogs  
Nina R. Ingle, M.S., Phillipine Mammals and Conservation  
Dorothy Karall, B.A., Illustration  
Peggy McNamara, Artist  
Debra K. Moskovits, Ph.D., Conservation  
Raymond Pawley, B.S. Herpetology  
Zues Preckwinkle, Bug Camp  
John A. Wagner, Ph.D., Pselaphidae

##### **Field Associates**

Pam Austin, M.S., African Mammals  
Barbara Becker, M.A. Zoology Research  
Somchai Bussarawit, B.S. Biology  
Tanya Chanard, M.S., Forest Biology  
Leif Davenport, Mammals of Burundi  
Merel J. Cox, M.S., Geology  
Susan Davis, M.S., Neotropical Birds  
Sherif Baha El Din, M.S., Herpetology of Egypt

John Douglas, M.S., African Zoology  
Brian Fisher, Ph.D., Ants of Madagascar  
Bruce Hayward, Ph.D., African Mammals  
Kiew Bong Heang, Ph.D., Sea Snakes  
Djoko T. Iskandar, Ph.D., Genetic and Systematics of Amphibians  
Engkamet Lading, M.S., Biology, Amphibians and Reptiles  
Maklarin Lakim, Research office  
Vachira Lheknim, Ph.D., Fish of Thailand  
Kelvin Lim Kok Peng, Amphibians and Reptiles  
Chan Chew Lun, Natural History Publications  
David Matusik, Lepidoptera Taxonomy  
Gregory Mayer, Ph.D., Organismic and Evolutionary Biology  
Edward Moll, Ph.D., Biology of Freshwater Turtles  
John Murphy, M.S., Herpetology  
Manuel A. Plenge, Birds  
Sergio Solari, M.S., Mammals of Peru  
Janice K. Street, Mammals Worldwide  
William S. Street, Mammals Worldwide  
Walter R. Suter, Ph.D., Systematics of Scydmaenidae (Coleoptera)  
Blas Tabaranza, M.S., Philippine Mammals  
Pitiwong Tantichodok, Ph.D., Coastal Oceanography  
Ruth Utzurrum, M.S., Philippine Mammals  
Anna Wong, B.S., Zoology  
Bruce A. Young, Ph.D., Snake Morphology

#### **Research Associates**

Mary Ashley, Ph.D., Conservation Genetics  
Wirt Atmar, Ph.D., Diversity and Community Structure  
Warren Atyeo, Ph.D., Systematics of Acari  
Angelo Capparella, Ph.D., Evolution of Neotropical Birds  
Donald S. Chandler, Ph.D., Systematics of Staphylinidae (Coleoptera)  
Dale Clayton, Ph.D., Host/Parasite Coevolution  
Timothy Collins, Ph.D., Molecular Evolution of Molluscs  
Joel Cracraft, Ph.D., Avian Systematics and Evolutionary Biology  
Marian Dagosto, Ph.D., Primates  
Sharon Emerson, Ph.D., Functional Anatomy of Anura  
John Fitzpatrick, Ph.D., Evolutionary Ecology and Biogeography of Neotropical Birds  
Daniel Gebo, Ph.D., Primates  
Malcolm Hast, Ph.D., Mammalian Vocal Apparatus  
Rainer Hutterer, Ph.D., Insectivore Mammals  
Avis James, Ph.D., Drosophila evolution  
Bruce C. Jayne, Ph.D., Marine and Estuarine Snakes  
W. B. Jefferies, Coevolution and Symbiosis in Crustaceans  
Daryl Karms, Ph.D., Herpetology and Community Ecology  
Marcus Key, Ph.D., Bryozoans  
Douglas Kelt, Ph.D., South American Mammals  
John Kethley, Ph.D., Systematics of Acari  
David H. Kistner, Ph.D., Systematics of Staphylinidae Associated with Ants and Termites  
Nedra Klein, Ph.D., Molecular Evolution in Birds  
Michael La Barbera, Ph.D., Functional Morphology of Pectinidae  
Peter E. Lowther, Ph.D., Field Museum Nest and Egg Collection  
Antonio Machado-Allison, Ph.D., South American Fishes  
Yang Chang Man, B.S., Decapods  
Jose Maria, Ph.D., Brazilian Birds  
Patricia McGill, Ph.D., Behavior and Ecology of Herring Gulls  
Peter Meserve, Ph.D., Population Ecology of Mammals



Paula Mikkelsen, Ph.D., Marine Mollusks  
John C. Murphy, M.S., Herpetology  
Charles Nadler, M.D., Sciuridae  
Roy A. Norton, Ph.D., Systematics of Acari  
Perry Ong, Philippine Mammals  
Charles Oxnard, Ph.D., Vertebrate Anatomy  
Victor Pacheco, M.A., Peruvian Mammals  
Tila Maria Perez Ortiz, Ph.D., Systematics of Acari  
Philip D. Perkins, Ph.D., Aquatic Coleoptera  
Ronald Pine, Ph.D., Taxonomy of South American Mammals  
Stephen Pruett-Jones, Ph.D., Behavior and Ecology of Birds  
George B. Rabb, Ph.D., Taxonomy of Salamanders, Phylogeny of Snakes  
Matthew Ravosa, Ph.D., Primates  
Charles Reed, Ph.D., Morphology and Evolution of Mammals  
Eric A. Rickart, Ph.D., Mammals in Southeast Asia and North America  
Scott Robinson, Ph.D., Birds  
Victor Sanchez-Cordero, Ph.D., Mexican Mammals  
Jorge A. Santiago-Blay, Ph.D., Insects  
Thomas S. Schulenberg, Ph.D., Conservation of Neotropical Birds  
H. Bradley Shaffer, Ph.D., Herpetology  
Jennifer Shopland, Ph.D., Mixed Species Ecology, Neotropical Birds  
Ronald Singer, D.Sc., Mammalian Anatomy  
Robert Stuebing, M.S., Malaysian Ecology  
Jamie Thomerson, Ph.D., Central and South American Fishes  
Robert Timm, Ph.D., New World Mammals  
Robert Traub, Ph.D., Siphonaptera  
Richard Wassersug, Ph.D., Tadpole Research  
John Wible, Ph.D., Higher Level Taxonomy of Mammals  
Glen Woolfenden, Ph.D., Florida Scrub Jay Behavior  
Anne Yoder, Ph.D., Primate Evolution  
John Yunker, Ph.D., Mammals of Chicago area  
Ermi Zhao, Ph.D., Chinese Herpetofauna, Systematics

## COLLECTION STATISTICS, 1998

### COLLECTION SIZE AND GROWTH

<u>DEPARTMENT OF ANTHROPOLOGY</u>	1997 Number of Specimens	1998 Number of Specimens	1997-1998 % growth
<b>Africa</b>			
<b>Sub-Saharan, History-Ethnography</b>			
<b>Cameroon, Nigeria and West Africa</b>	5,539	5,559	0.36
<b>Benin bronzes</b>	104	104	0
<b>Angola and Zaire</b>	850	850	0
<b>East and South</b>	3,884	3,890	0.15
<b>Madagascar, History-Ethnography</b>	3,771	3,771	0
<b>Egypt, Archaeology</b>	2,824	2,828	0.14
<b>Coptic textiles</b>	670	670	0
<b>General, Prehistoric Archaeology</b>	141,940	141,942	0.001
<b>General and Other, History-Ethnography</b>	1,603	1,603	0
<b>Subtotal Africa</b>	<b>161,185</b>	<b>161,217</b>	<b>0.02</b>
<b>Europe</b>			
<b>Italy, Archaeology</b>			
Etruscan	280	280	0
Roman and Graeco-Roman	1,080	1,080	0
Pompeii	200	200	0
<b>Other, Archaeology and History-Ethnography</b>	120	120	0
<b>General, Prehistoric Archaeology</b>	45,700	45,700	0
<b>Subtotal Europe</b>	<b>47,380</b>	<b>47,380</b>	<b>0</b>
<b>Asia</b>			
<b>East Asia, Archaeology and History-Ethnography</b>			
<b>China,</b>	15,895	16,913	6.40
Rubblings	5,000	5,000	0
Textiles	3,000	3,014	0.47
<b>Tibet</b>	4,401	4,401	0
<b>Japan</b>	4,033	4,258	5.58
Sword furniture	1,060	1,060	0
<b>Other (Korea, Siberia, etc.)</b>	702	702	0
<b>Southeast, History-Ethnography</b>			
<b>Philippines</b>	9,151	9,151	0
<b>Indonesia-Malaysia</b>	6,462	6,475	0.20
<b>Mainland</b>			
<b>Burma</b>	247	248	0.40
<b>Thailand</b>	139	144	0.36
<b>South, Archaeology and History-Ethnography</b>			
<b>India, Nepal, Bangladesh</b>	2,420	2,420	0
<b>Sri Lanka</b>	430	430	0
<b>Pakistan and Afghanistan</b>	823	823	0
<b>Middle East</b>			
<b>Iran and Jordan, Archaeology</b>	300	300	0
<b>Iraq, Archaeology</b>	31,500	31,500	0
<b>General Ethnography</b>	105	105	0
<b>Other (Central, West)</b>	100	100	0
<b>Subtotal Asia</b>	<b>85,768</b>	<b>87,044</b>	<b>1.49</b>

## COLLECTION STATISTICS, 1998

### COLLECTION SIZE AND GROWTH (continued)

DEPARTMENT OF ANTHROPOLOGY (continued)	1997 Number of Specimens	1998 Number of Specimens	1997-1998 % growth
<b>South America</b>			
<b>Andean Area</b> , Archaeology	17,018	17,018	0
<b>Andean Area</b> , History-Ethnography	709	709	0
<b>Amazonia and Marginal</b> , History-Ethnography	5,421	5,421	0
<b>General</b> , History-Ethnography	51	51	0
<b>Subtotal South America</b>	<b>23,199</b>	<b>23,199</b>	<b>0</b>
<b>Central And Middle America</b>			
<b>Mainland</b> , Archaeology	10,644	10,647	0.03
<b>Mainland</b> , History-Ethnography	2,774	2,829	1.98
<b>Caribbean</b> , History-Ethnography	956	956	0
<b>Subtotal Central and Middle America</b>	<b>14,374</b>	<b>14,432</b>	<b>0.40</b>
<b>North America</b>			
<b>Arctic</b> , History-Ethnography	4,971	4,974	0.06
<b>Northwest Coast</b> , History-Ethnography	6,956	6,956	0
<b>California</b> , History-Ethnography	4,355	4,355	0
<b>Plains and Basin</b> , History-Ethnography	15,186	15,186	0
<b>Southwest</b> , History-Ethnography	5,632	5,658	0.46
<b>East and Central</b> , History-Ethnography	3,234	3,234	0
<b>General</b> , History-Ethnography	150	150	0
<b>Southwest and Central</b> , Archaeology	185,002	185,002	0
<b>Subtotal North America</b>	<b>225,486</b>	<b>225,515</b>	<b>0.01</b>
<b>Pacific</b>			
<b>Australia</b> , History-Ethnography	1,562	1,562	0
<b>New Guinea</b> , History-Ethnography	16,283	16,283	0
<b>Melanesia</b> , History-Ethnography	14,929	15,011	0.55
<b>Polynesia</b> , History-Ethnography	5,257	5,269	0.23
<b>Micronesia</b> , Archaeology, History-Ethnography	11,270	11,270	0
<b>General</b> , History-Ethnography	100	100	0
<b>Subtotal Pacific</b>	<b>49,401</b>	<b>49,495</b>	<b>0.20</b>
<b>Osteological Collection</b>	<b>4,696</b>	<b>4,696</b>	<b>0</b>
<b>Anthropology Subtotal</b>	<b>611,489</b>	<b>612,978</b>	<b>0.24</b>

## COLLECTION STATISTICS, 1998

### COLLECTION SIZE AND GROWTH (continued)

<u>DEPARTMENT OF BOTANY</u>	1997	1998	1997-1998
	Number of Specimens	Number of Specimens	% growth
Algae	78,133	78,133	0
Fungi	154,605	155,209	0.40
Bryophytes	185,377	187,504	1.15
Pteridophytes	115,405	116,005	0.51
Gymnosperms	10,600	10,650	0.47
Angiosperms	2,061,992	2,074,077	0.59
<b>Botany Subtotal</b>	<b>2,606,112</b>	<b>2,621,578</b>	<b>0.50</b>

<u>DEPARTMENT OF GEOLOGY</u>	1997	1998	1997-1998
	Number of Specimens	Number of Specimens	% growth
Physical Geology	63,070	63,104*	0.05
Invertebrate Paleontology	321,240	321,349	0.03
Plant Paleontology	63,300	63,666	0.58
Vertebrate Paleontology	82,434**	82,951**	0.63
<b>Geology Subtotal</b>	<b>530,044</b>	<b>531,070</b>	<b>0.20</b>

\* based on catalog book entries. Subject to change when computerization has been completed. Some specimens have been discarded to waste, exchanged, transferred to another FM department.

\*\* catalogued specimens. Does not include approximately 25,000 uncatalogued specimens, reported as part of total specimens prior to 1995.

<u>DEPARTMENT OF ZOOLOGY</u>	1997	1998	1997-1998
	Number of Specimens	Number of Specimens	% growth
Amphibians and Reptiles	266,939	269,958	1.13
Birds	429,956	433,004	0.71
Fishes	1,799,988	1,821,068	1.20
Insects	10,320,117	10,364,306	0.43
Invertebrates	3,978,500	4,007,500	0.73
Mammals	161,148	164,084	1.82
<b>Zoology Subtotal</b>	<b>16,956,648</b>	<b>17,059,920</b>	<b>0.61</b>

<b>TOTAL SPECIMENS</b>	<b>20,092,804</b>	<b>20,212,568</b>	<b>0.60</b>
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## COLLECTION STATISTICS, 1998

### USE OF COLLECTION BY LOAN

<u>DEPARTMENT OF ANTHROPOLOGY</u>	Number of Loans	Number of Specimens Loaned	Number of Specimens Borrowed
<b>Anthropology Subtotal</b>	<b>23</b>	<b>149</b>	<b>48</b>
<u>DEPARTMENT OF BOTANY</u>	Number of Loans	Number of Specimens Loaned	Number of Specimens Borrowed
Algae	2	6	0
Fungi	18	292	473
Bryophytes	12	1,287	45
Pteridophytes	6	521	22
Gymnosperms	1	1	0
Angiosperms	121	13,897	1,886
<b>Botany Subtotal</b>	<b>160</b>	<b>16,004</b>	<b>2,426</b>
<u>DEPARTMENT OF GEOLOGY</u>	Number of Loans	Number of Specimens Loaned	Number of Specimens Borrowed
Physical Geology	30	62	0
Invertebrate Paleontology	13	438	0
Plant Paleontology	5	127	0
Vertebrate Paleontology	38	612	81
<b>Geology Subtotal</b>	<b>86</b>	<b>1,239</b>	<b>81</b>
<u>DEPARTMENT OF ZOOLOGY</u>	Number of Loans	Number of Specimens Loaned	Number of Specimens Borrowed
Amphibians and Reptiles	106	1,705	42
Birds	94	1,650	136
Fishes	43	1,584	731
Insects	165	30,738	6,924
Invertebrates	44	8,500	300
Mammals	78	1,364	88
<b>Zoology Subtotal</b>	<b>530</b>	<b>45,541</b>	<b>8,221</b>
<b>TOTAL LOANS</b>	<b>799</b>	<b>62,933</b>	<b>10,776</b>

## COLLECTION STATISTICS, 1998

### SCHOLARLY USE OF COLLECTIONS BY VISITORS (in visitor days)

#### DEPARTMENT OF ANTHROPOLOGY

	Number of Professionals	Number of Students	Number of Others	Total Visitors
<b>Anthropology Subtotal</b>	<b>117</b>	<b>74</b>	<b>122</b>	<b>313</b>

#### DEPARTMENT OF BOTANY

	Number of Professionals	Number of Students	Number of Others	Total Visitors
Algae	0	0	0	0
Fungi	22	0	0	22
Bryophytes	6	2	9	17
Pteridophytes	6	2	0	8
Gymnosperms	0	0	0	0
Angiosperms	58	14	14	86
<b>Botany Subtotal</b>	<b>92</b>	<b>18</b>	<b>23</b>	<b>133</b>

#### DEPARTMENT OF GEOLOGY

	Number of Professionals	Number of Students	Number of Others	Total Visitors
Physical Geology	10	0	0	10
Invertebrate Paleontology	11	1	0	12
Plant Paleontology	0	0	0	0
Vertebrate Paleontology	186	27	2	215
<b>Geology Subtotal</b>	<b>207</b>	<b>28</b>	<b>2</b>	<b>237</b>

#### DEPARTMENT OF ZOOLOGY

	Number of Professionals	Number of Students	Number of Others	Total Visitors
Amphibians and Reptiles	122	316	166	604
Birds	64	73	25	162
Fishes	231	50	234	515
Insects	155	135	21	311
Invertebrates	35	138	12	185
Mammals	239	262	215	716
<b>Zoology Subtotal</b>	<b>846</b>	<b>974</b>	<b>673</b>	<b>2,493</b>
<b>TOTAL VISITORS</b>	<b>1,262</b>	<b>1,094</b>	<b>820</b>	<b>3,176</b>

## COMPUTER SERVICES

Computer Services (CS) is charged with supporting and coordinating diverse computer related activities at the Field Museum. This includes both central and departmental based computing equipment. Computer Services has full responsibility for certain systems used by every department — *central* systems and services. They are the computing equivalent of the lights in each office and building heat. In addition, whenever a department adds a computer, adds software, or connects to the network, CS staff are there to advise and assist. These *departmental* systems are paid for and primarily used by one department.

1998 brought three new staff members, replacing and adding to the CS department's capabilities. It was also a year of preparation for several major upgrades in 1999. Finance, Visitor Services, Institutional Advancement, and the core network backbone are all slated for updates in early 1999. The good news is each of these systems arrives Year2000 ready, avoiding worry about our most important systems being vulnerable to the "Y2K Bug." Our Y2K inventory at the end of 1998 identified over 550 desktop computers, all of which are usable after 1/1/2000.

Departments continued a breakneck pace of replacing desktop systems with over 100 new systems installed. Nearly every new machine is connected to the building network. These activities facilitated a higher level of information exchange and efficiency among various areas of the Museum, and contributed to information sharing with researchers and the public consistent with the Museum's mission and goals.

### **Staff**

Head of Information Services: Timothy K. Krauskopf, M.S. Computer Science, has overall responsibility for information systems and technology planning at the Museum, and management responsibility for Computer Services, Photography, and the Library. Besides management duties he also contributes directly to technical problem-solving.

Computer Services Manager: James W. Koepl, Ph.D. Biology. Duties include managing department personnel and technical management of all institutional computing resources including hardware and software. Also included are planning for future institutional information processing needs, assisting in negotiating licenses and contracts, representing the Museum on computer related issues and generally performing the lead technical role in helping the institution meet its mission-driven short and long term goals in this area. He monitors security issues for all computer resources and often contributes to delivery of all other computer service functions.

Computer Systems Specialist: Peter E. Lowther, Ph.D. Biology. Duties include data and database administration for museum systems along with some application programming projects. Provides system management, administration and network management, user support and training on Unix systems. Provides basic hardware and software support on PCs.

Computer Systems Specialist: Gregory Kotulski specializes in all functions related to administrative systems, particularly the Finance and Development software. Assists with PC hardware and software in other areas.

Computer Systems Specialists: Rayfield Drake. Associates Degree in Electronics and Computers, DeVry Institute; Neil Young, BS Anthropology; Andy Chan, BA Economics. Duties include hardware and software support, installation, maintenance, problem-solving, and network connections for museum PCs and Macintoshes. They respond to user trouble reports, diagnose problems, make minor and major repairs of components and provide assistance with user training in the use of computer resources.

## **Central Systems**

Key central systems responsibilities include maintaining the Museum's primary data network with over 25 network hubs, 400 computers, 250 printers, and a high-speed T-1 connection to the Internet. CS also maintains the electronic mail system, including its connection with the outside world, and the public WWW server ([www.fmnh.org](http://www.fmnh.org)) which is the Museum's electronic "face" to the world. We also manage a database server with collections data from Botany, Geology and Zoology. An internal server is provided as an Intranet service and contains over 16GB of shared disk space for general use.

CS regularly replaces, improves, and installs new Museum network cabling, adding network hubs and other equipment as necessary. We use Category 5, 10BaseT cabling and we now can reach 95% of building areas, though some computers are still not connected.

This year, the Museum's primary web server was migrated to a stand-alone Pentium-based workstation with Windows/NT 4.0. Several interactive, searchable collections databases were set up as prototypes for outside access. Several types of collections data should become available in 1999.

## **Departmental Systems**

Computer Equipment Upgrades and Repairs: CS consults with departments to purchase new computers, install them, and then redistribute existing equipment to other users. We manage vendor relationships, help with purchasing, and shop for effective price, service and delivery. We also handle most repair and upgrade requests, fixing or replacing problem computers. We handle backups for several departmental servers.

## **Departmental Projects.**

Major consulting projects for CS working with departments have included the following:

- Migrating the Anthropology collections data to a new Windows/NT server running FileMaker Pro.
- Installation of a new Windows/NT server for Amphibians and Reptiles with assistance in migrating data from the Unix system to Microsoft Access.
- New Windows/NT server and software from ADP for payroll posting in Personnel.
- Deployment and maintenance of new Museum Store Point-Of-Sale system (Lode Data Systems) with registers in each store location.
- Installation of new desktop computers and software, acquisition of servers, and additional preparation for new server software in Finance (Lawson), Institutional Advancement (Raiser's Edge) and Visitor Services (Paciolan ticketing).

## **Current Equipment**

The Field Museum's core computer facilities consist of 10 Windows/NT servers, 5 Unix servers and over 550 desktop PCs, most of them connected to a central network which is connected to the Internet.

The Windows/NT servers include high speed Pentium-based servers running the museum's World-Wide Web server, Intranet web server with disk sharing, Development/Membership system using Raiser's Edge software from BlackBaud, Museum Store Point-Of-Sale system from Lode Data Systems, internal DNS and DHCP services, and an ADP payroll management system. All of these servers run Windows/NT version 4.0.

The Unix servers include a SPARCstation 5 for email services (pending), a SPARCclassic hosting a gopher server, and an AT&T GIS 3416 system running Unix System V supporting our in-house personnel record system.

Collections data are primarily hosted by a DEC Prioris HX 5133DP server running SCO UnixWare 2.1.1. C/base, a commercial 4GL relational database software product, is used to manage collection related information for Botany, Geology and Zoology (specifically, Divisions of Birds, Mammals, Amphibians and Reptiles). Pentium-based Windows/NT 4.0 servers support collections software for Anthropology (FileMaker Pro), Insects and Invertebrates (Paradox and Access), and Amphibians and Reptiles (transitioning from C/base to Access). Fish collection data is supported by MUSE on a Novell 4.1 server.



Approximately one quarter of the desktop PCs are Macintosh, the rest primarily run Windows95 and Windows98 operating systems. These are connected internally with category 5 10Base-T cables to the network backbone at 10Mb/sec. The backbone connects to the Internet with a Cisco 2524 router connected to our Internet service provider, DIGEX, at T-1 speed (1.5Mb/sec). A PC-based firewall, running Elron firewall software, processes all incoming and outgoing traffic to prevent break-ins.

The Museum's Novell servers, two DEC MicroVAXs running VMS, and a DECsystem 5100 running Ultrix are being retired in 1999. One of the Novell servers currently runs the museum's ticketing application on 13 visitor services stations. There are approximately 30 dumb ASCII terminals connected principally to the Prioris server and Microvax 3100/20 systems which will also be retired in 1999.

The Library uses two OCLC (Online Computer Library Center) terminals connected through a dedicated line to the OCLC system.

## THE FIELD MUSEUM LIBRARY

The mission of Field Museum Library is to build, organize and maintain for use the research collections essential to the Museum's scientific, educational and exhibition programs. Since its organization in 1894 at the Museum's founding, the Library's holdings have grown to include 255,000 volumes of books and journals and significant special collections of archives, manuscripts and original natural history illustrations. The strengths of the Library collections closely parallel the strengths of the Museum's scientific collections in the fields of anthropology, botany, geology, paleontology and zoology, and emphasize biological systematics, evolutionary biology, ethnology and material culture. The continuous development of the Library collections requires the acquisition of research materials from all parts of the world. Books are purchased through specialized suppliers on several continents or acquired directly from publishers in scores of countries. Serial publications, the backbone of any scientific library, account for two thirds of the Library's holdings in some subject areas. A thorough review during the year of the Library's paid subscription list, aimed at controlling the escalating cost of journal subscriptions, identified over 150 titles for cancellation. While the Library now subscribes to just over 1000 domestic and foreign journals, the principal means of acquiring foreign journals is the publications exchange program. Exchange agreements with over 1000 museums, societies, academies, and other organizations worldwide brings to the Library nearly 2500 serials of every description. Exchange partners receive in return one or more of the Museum's four Fieldiana scientific series, covering the areas of anthropology, botany, geology and zoology.

The Library collections are available to a broad spectrum of users. Chief among these are the Museum's staff and research associates, followed by the volunteers, interns, visiting researchers, specialists and consultants in all areas of the Museum's activities. Through the long established channels of Interlibrary Loan, now enhanced by cooperative online services, the national and international scholarly community constantly use the Library's resources through loans of materials and provision of photocopies. Interlibrary loan and photocopy reference services supplied requested materials to over 1,000 researchers at other institutions, producing sufficient revenue through service fees to support the lease and operation of a photocopier for this purpose. The Interlibrary Loan operation also brought our staff researchers nearly 300 items from other libraries, providing access to materials not held in our collections. Through its Public Reading Room the Library's collections are also available on a non-circulating basis to all members of the public who have need of its specialized materials.

The Library became a member of OCLC (Online Computer Library Center) in 1977, and has added its cataloging and holdings symbol for all new acquisitions since 1977 to OCLC's Online Union Catalog, making an ever larger portion of its collections available for interlibrary loan to OCLC's 25,000 member libraries. By the end of 1998 over 34,000 of the Library's titles -- including about 3,000 journal titles -- had been added to the OCLC bibliographic database.

The Library's continuous development of its research collections is supported each year by several endowed funds specifically targeted for book purchases. In addition to acquisitions made through a general Library Fund, several hundred titles are acquired through the Louis A. and Frances B. Wagner Fund, the Cherry Fund in Memory of Samuel B. Cherry, the Chester A. Tripp Fund, and the Marie-Louise Rosenthal Fund for Book Acquisition. These funds greatly strengthen the Library's pursuit of excellence in building its research collections. Numerous special collections held by the Library contain a wealth of rarely-held material. The core of the book collections held in the Mary W. Runnells Rare Book Room consists of several specialized subject collections formed by individuals. The Edward E. Ayer Ornithology Collection is among the finest collections of ornithological literature in the country. The Ayer Collection is widely known through John Todd Zimmer's *Catalogue of the Edward E. Ayer Ornithological Library* (Chicago, 1926). The Berthold Laufer Asian Collections contain rich holdings of Chinese and Japanese books, as well as numerous works in Tibetan, Manchu and Mongolian. The Laufer Collections cover a broad spectrum of subjects relating to the anthropology and culture of China, Japan, India, and Southeast and Central Asia, and include works printed from the fifteenth to the twentieth century. The George Frederick Kunz Collection contains hundreds of obscure titles and rare imprints from the 16th to the 18th centuries on mining, mineralogy, gemology, alchemy, technology and

natural history. The General Rare Book Collection represents a century of acquisitions from a wide variety of sources, including a number of personal collections of past Museum researchers as well as routine acquisitions by the Library. Ongoing development of the Rare Book Collections is supported by funds provided by the Friends of Field Museum Library and the Runnells Rare Book Fund.

Recent years have seen an ever increasing use of rare book and special collections for basic research and as an image-rich resource for exhibition and publication. These collections contain tens of thousands of images, often gloriously colored, spanning five centuries in the effort to understand and depict the natural world and human cultures. The near-universal appeal of these images has been the basis in establishing an image licensing program, to produce a new source of revenue for the Museum and the Library. Several license agreements pursued during the year will result in the coming months in lines of fine art prints and other reproductions from the collections. The collections also present many opportunities for book publishing, particularly of original works. April brought publication of *Baby bird portraits by George Miksch Sutton: watercolors in the Field Museum* (Norman: University of Oklahoma Press). This volume reproduces the Library's collection of 35 original watercolors of baby birds by the ornithological artist George Sutton, and includes species accounts by Paul A. Johnsgard and a foreword by Benjamin W. Williams and William R. Johnson. The Library Friends celebrated publication of the book with a fundraising event hosted by Kenyon Oppenheimer gallery. The event honored Brooks McCormick, donor of the Sutton collection, and featured an exhibition of the paintings and a talk by Paul Johnsgard. Following the success of the Sutton book, preparations are underway for publication of the Library's Louis Agassiz Fuertes collection. Following Fuertes's tragic death in 1927, C. Suydam Cutting donated to the Library the artist's final works, the 113 field studies made on the Museum's Abyssinian Expedition of 1926-1927. Paul Johnsgard will again contribute species accounts for the paintings and sketches; Maria Boynton, the artist's granddaughter, will provide a chapter on Fuertes in Abyssinia from her forthcoming biography of the artist; and Jeff Rosen, Professor of History of Art and Anthropology, Columbia College, will provide ethnographic and sociopolitical commentary on the Abyssinian setting of the expedition. Preparations for this effort have included restoration through the Rosenthal Conservation Fund of Suydam Cutting's fascinating film of the expedition.

A remarkable acquisition enriched the Library's collections of works by Sutton and his teacher, Louis Agassiz Fuertes. Through the Friends Fund the Library has acquired a pair of original paintings of pigeons, one each by Fuertes and Sutton. The paintings are from the collection of the late Robert McCabe, who acquired them from Sutton. Using Fuertes's study as a model, Sutton's painting shows the student carefully distinguishing his work from his teacher's: the Fuertes study presents the artist's distinctive impressionistic capture of the elan of the living organism; Sutton offers a closely studied, carefully detailed and ornithologically instructive rendering. Together, the two pieces neatly link these two great artists, and provide a bridge between the disparate imagery of our Sutton baby bird portraits and our Fuertes studies of exotic African species. The acquisition from the McCabe collection also included an ink and gouache study of a bittern by Fuertes, acquired through the Runnells Fund. This study, labeled on back "Threatened Bittern," depicts with Fuertes's distinctive immediacy, a bittern protecting its nest in the rushes against a sudden intruder.

Notable visitors to the Rare Book Room included John Loring, Design Director of Tiffany & Company, who found considerable material in the George Kunz Collection and the World's Columbian Exposition Collection for his seventh book on the history of Tiffany's design tradition. Paul Johnsgard consulted the works of John Gould in the Ayer Ornithology Collection for a forthcoming book, and paid a second visit to examine Fuertes's Abyssinian studies. Maria Boynton spent a week studying the Abyssinian paintings as well as correspondence and records in the Archives relating to the Abyssinian Expedition. The Rare Book Room was the site of numerous tours during the year including groups from the Brandeis University Alumni Association, the Society of American Archivists, and the American Library Association, as well as many informal gatherings. A number of Museum adult education courses held class sessions in the Rare Book Room, and the Librarian presented several class lectures, including presentations on natural history illustration for instructors from the School of the Art Institute of Chicago, and sessions on the history of ethnographic imagery for instructors from Columbia College.

Loans of material for exhibition from the Rare Book Room were made to the Frank Lloyd Wright Home and Studio, Oak Park; the DePaul University Art Gallery for the exhibition "The Natural Order of Things;" and the Art Institute of Chicago for the upcoming Gustave Moreau exhibition.

Organization of the Archives, transferred to the Library early in 1997, continued through the year. An intern completed a full arrangement and description of our Malvina Hoffman materials, and performed preservation photocopying of those portions of the collection most frequently consulted by scholars. Transfers of material to the Archives from all parts of the Museum continued at an increasing pace.

### Library Collections

The summary tables below provide holdings, growth and use figures for the main Library collections, which are classified by the Library of Congress Classification System and distributed in 10 stack areas within the Museum. A number of other special collections are separately housed and organized. Collections in the Mary W. Runnells Rare Book Room include approximately 7,000 volumes of books and journals, as well as approximately 3,000 pieces of original natural history and ethnographic illustrations. The Archives includes 3,000 linear feet of Museum records, personal papers, manuscripts and correspondence; 100 drawers of oversize flats (including maps, plans, posters, photographs and scientific illustrations); and 500 reels of film, including numerous expeditionary films. The Berthold Laufer collections of materials on Asian cultures include 5,000 volumes of Chinese and Japanese books, and 3,500 volumes of Western language collectanea, monographs and reprints.

#### LIBRARY ACQUISITIONS, SUMMARY TABLE, 1998

<u>Library</u>	Holdings 12/31/97	<u>BOOK ACQUISITIONS</u>			Serials Received (volumes)	Holdings 12/31/98
		Purchase	Exchange	Gift		
General	107,688	180	36	211	432	108,547
Anthropology	39,481	185	62	182	123	40,033
Botany	32,833	75	16	49	118	33,092
Geology	37,399	45	12	24	164	37,644
Zoology	38,575	128	43	122	114	38,982
Birds	11,920	39	17	19	20	12,015
Mammals	4,430	28	6	46	13	4,523
Insects	14,885	17	10	20	57	14,989
Lower Inv	4,224	12	2	26	11	4,275
Fishes	1,189	12	3	3	8	1,215
Amph/Rept	1,927	20	5	8	5	1,965
<b>Total</b>	<b>255,976</b>	<b>614</b>	<b>186</b>	<b>588</b>	<b>951</b>	<b>258,315</b>

#### COLLECTION USE

<u>Library</u>	<u>Museum Staff</u>		<u>Public Visitors</u>	<u>Interlibrary</u>
	Items Charged	Browsing/ Photocopying	Items Paged	Interlibrary Loans
General	951	1,550	1,320	246
Anthropology	656	850	1,250	128
Botany	372	575	495	45
Geology	179	375	435	83
Zoology	456	700	895	248
<b>Total</b>	<b>2,614</b>	<b>4,050</b>	<b>4,395</b>	<b>750</b>

## FIELD MUSEUM PRESS - 1998

### FIELDIANA

#### **Fieldiana: Anthropology**

No. 30. *Mesquakie (Fox) Material Culture: The William Jones and Frederick Starr Collections*. By James W. VanStone. May 28, 1998; 89 pages, 97 illus. Publication No. 1492.

#### **Fieldiana: Botany**

No. 39. *A Revision of the South American Species of Brunfelsia (Solanaceae)*. By Timothy C. Plowman, edited by S. Knapp and J. R. Press. August 31, 1998; 150 pages, 48 illus., 7 tables. Publication No. 1496.

#### **Fieldiana: Geology**

No. 38. *The Status of the Sauropterygian Reptile Genera Ceresiosaurus, Lariosaurus, and Silvestrosaurus from the Middle Triassic of Europe*. By Olivier Rieppel. February 27, 1998; 46 pages, 21 illus., 3 tables. Publication No. 1490.

No. 39. *Functional Morphology and Ontogeny of Keichousaurus hui (Reptilia, Sauropterygia)*. By Kebang Lin and Olivier Rieppel. March 31, 1998; 35 pages, 15 illus., 3 tables. Publication No. 1491.

#### **Fieldiana: Zoology**

No. 88. *A Synopsis of the Mammalian Fauna of the Philippine Islands*. By Lawrence R. Heaney et al. June 30, 1998; 61 pages, 7 illus. Publication No. 1493.

No. 89. *A Review of the Genera Crunomys and Archboldomys (Rodentia: Muridae: Murinae), with Descriptions of Two New Species from the Philippines*. By Eric A. Rickart, Lawrence R. Heaney, Blas R. Tabaranza, Jr., and Danilo S. Balete. June 30, 1998; 24 pages, 13 illus., 2 tables. Publication No. 1494.

No. 90. *A Floral and Faunal Inventory of the Réserve Spéciale d'Anjanaharibe-Sud, Madagascar: With Reference to Elevational Variation*. Steven M. Goodman, editor. June 30, 1998; 246 pages, illus., tables. Publication No. 1495.

### OTHER FIELD MUSEUM PUBLICATIONS

*Vanishing Treasures of the Philippine Rain Forest*. Lawrence R. Heaney and J. C. Regalado, Jr.

*The Anthropology Collections of the Field Museum*. Written by Jennifer Shopland; edited by Lori Breslauer.

## PHOTOGRAPHY

The Photography Department provides a full range of photographic services to the entire Field Museum staff. It also makes its services and collections available outside the Museum to a diverse group of scholars, educational and research institutions, governmental granting agencies, scientific and commercial publishers. The department is responsible for creating new photographs, providing lab services, negotiating rights and permissions, and maintaining the photography collection.

The photography collection is maintained in a controlled storage environment. The collection currently holds over 600,000 images, and grows annually by an estimated 15,000 images. This collection contains the only comprehensive visual documentation of the collections, research, field work, exhibits, and history of the Museum. Photographs in the collection range from the earliest field expeditions to the most current images. Rights and permissions are negotiated for display and reproduction use of images.

Department photographers produce new photography of subjects including objects and specimens in the studio and on exhibit; portraits, photojournalism, Museum events and activities, the building and grounds, and exhibit documentation. Lab services provide for film processing, printing, copying, duplicating, and digital scanning of images. Photographs are used in a variety of publications (i.e., scientific research, educational, promotional, marketing, development, editorial, and commercial) as well as both printed and electronic media such as web sites. Other uses are to illustrate exhibitions, presentations, reports, and research.

### **Photographic Collection**

During 1998, the department continued the major electronic imaging project launched in 1997. With the aid of a \$25,000 anonymous donation, equipment has been purchased for slide and flatbed scanning, and temporary staff has been hired to continue work on digitizing the photographic collection. This has created the start of a centralized catalogue. The goal in 1998 was to design and produce a model database for inventory and cataloguing of the photographic collection, which could be accessed museum-wide by several users simultaneously. This system would protect the originals from frequent handling and provide a convenient way to access the collection. As of December 31, 1998 there were 97,000 searchable descriptions of the photographs on line and over 12,000 photos that can be called up on screen from any computer inside the Museum with an intranet connection. This has resulted in faster, more efficient searches and provides staff with a greater selection of images for research, publications and web site use. In 1998 collections data from Anthropology, Meteorites, Gems, Birds and Mammals was linked with the Photo Archives. We can now enter a single catalogue or specimen number and add information about the object automatically to the photography database. In 1999, the Photo Data will be linked back to the departmental databases. The ultimate goal is to make the photo database the primary location for staff to complete photo searches, much like a card catalogue in a library, only available to hundreds of people at the same time. Through continued scanning and data entry by our department, as well as through advice given to other departments on using their own programs of digital imaging and data entry, it is expected that the number of records and digital photographs in the database will double by the end of 1999.

Work also continued on updating and modernizing methods of storage of negatives and slides in 1999, including the addition of eight new baked enamel cabinets to the collection storage area. In a significant addition to the collection, Anthropology Curator Emeritus Phil Lewis donated thousands of slides he shot during field work expeditions during his career.

### **Selected Projects**

Photo lab orders increased by 100% in 1998. Photographs were published in many exhibits, publications, television programs, documentary films, research publications, and in electronic media such as CD-ROMs and web sites. Requests from both inside and outside the Museum were serviced. Orders from Museum Affairs, Institutional Advancement, and the President's Office increased in 1998 due to the increase in major traveling exhibits and events. Requests from Academic Affairs were also high, involving many research and collection related endeavors.

"Sue." Assignments included the exhibits *Sue Uncrated*, and *The McDonald's Sue Fossil Prep Lab*. Also, ongoing coverage continued of preparation work on the fossil, along with publicity and donor events, and scientific photo documentation.

*Living Colors - A Butterfly Garden*. Staff photographers shot many specimen photos for a butterfly identification guide as well as photo murals in the exhibit. These and other images were made available to the staff of Public Relations, Exhibits, and web designers all via the intranet.

*A Comprehensive Phylogentic Study of Amiid Fishes (Amiidae) Based on Comparative Skeletal Anatomy*. A publication of the Society of Vertebrate Paleontology featuring the work of Curator of Fossil Fishes, Lance Grande. Contains hundreds of photographs taken by staff photographers.

*The Anthropology Brochure*. Published by The Field Museum, Academic Affairs.

*The Explorer's Guide to the Field Museum*. Published by Field Museum, Museum Affairs. The new guide book sold in the Museum Store.

*The Archaeology and Pottery of Nazca Peru*. Published by Alta Mira press, and The Field Museum. Contains over 400 photographs of Kroeber's fieldwork and artifacts from the Nazca collection.

*The field notebooks and photographs of A.B. Lewis' 1909-1912 expedition to the Pacific Islands of Melanesia*. A publication containing hundreds of photographs from the Collection.

*Charles Carpenter Native American Portraits*. Exhibited in Field Museum's Webber Resource Center.

*In The Field*. Published bi-monthly by The Field Museum.

*Science Magazine*. Cover photograph of Majungasaurus dinosaur, May 15, 1998.

*Field Museum Web Site*. Examples include *The Lions of Tsavo* page, the Butterflies collection and exhibit sites, *Sue T. rex* site, and a Plant Models section, all using many photographs from the Collection.

*Interactive Web Site*. At the end of the year, a prototype *interactive web page* was designed using digital scans of slides shot by the staff photographer during a 1998 trip to Tsavo National Park, in Kenya, Africa. This interactive system will allow the trip's participants to view and describe the photos from their computers; eventually, the information will be available to all users of the Intranet.

*Museum Campus Opening*. Photographs of the Campus itself, and activities promoting its use were taken for press releases and promotional displays.

*Natural History Magazine*. Images were chosen and used in articles by Drs. Lance Grande and John Flynn using the Field Museum intranet database.

*Connect*. The regular newsletter published by the Museum Campaign Office. This, along with other donor publications and visual presentations, utilize our photography collection for illustration.

*The Field Museum Store*. Photo research for the Exhibits and Auxiliary Service Departments, along with the Charles Sparks Architectural firm, to create the graphic presence of the new Museum Store, which opened in June. The prototype intranet photo database was used to select photographs for large photo murals dividing sections of the Store. New postcards were also produced by the Store.

*McDonald's Restaurant*. Consulted and provided photographs of dinosaurs for use as murals in the newly revamped *Field Museum Dinosaur McDonald's*.

## **PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

The Pritzker Laboratory for Molecular Systematics and Evolution was named in 1998 in recognition of generous support from The Pritzker Foundation. The Pritzker Laboratory is a Field Museum multi-user core facility whose mission is the collection and analysis of genetic data. The vast majority of the data collected are DNA sequences and the main sources of specimens used in the laboratory are the frozen tissue collections of the Field Museum's Zoology and Botany Departments. DNA sequence data are being increasingly utilized in evolutionary studies due to their many desirable properties. Chief among these is the fact that DNA sequences are composed of only four nucleotide bases, resulting in data that are, in some fundamental respects, very simple. Another extremely useful property of DNA sequence data is their high level of comparability across taxa and across studies. Together, these properties mean that DNA sequence data can be applied to investigate diverse questions at all levels in the biological hierarchy—questions about individuals, populations, species, and even phyla and kingdoms.

The primary activity of lab users is the collection and analysis of genetic data for inferring the genealogical, or phylogenetic, relationships among species. This knowledge of phylogenetic relationships is fundamental to understanding organismal evolution and the origins of biological diversity. Patterns of phylogenetic relationships among species can be used to trace character change throughout the course of evolution and provide insights on the biological histories of geographic regions. Another major focus of lab research is characterizing the amount of genetic variation within and among populations. Data at this level are used to determine taxonomic limits to help guide conservation efforts, and to study the very processes driving evolution (e.g., natural selection).

The majority of lab users are Field Museum curators and their graduate students from the University of Chicago and the University of Illinois at Chicago, who share a common interest in evolution and systematics. However, the diversity of the Pritzker Lab's researchers and their studies is truly astounding. In 1998, DNA sequence data were obtained and/or analyzed from hundreds of taxa, including: cyanobacteria, lichenized ascomycetes and basidiomycetes, non-lichenized ascomycetes, mushrooms, club-mosses, quillworts, horsetails, whisk ferns, royal ferns, filmy ferns, polypody ferns, water ferns, tree ferns, pyramidellid snails, clams, snapping shrimp, corals, batflies, rove beetles, fruit flies, butterflyfish, poison-dart frogs, cricket frogs, natricine snakes, homalopsine sea snakes, manakins, ground rollers, antbirds, cactus wrens, toucans, thrushes, warblers, honeyeaters, shrews, tenrecs, fruit bats, microbats, rodents, primates, carnivorans, and ungulates. These taxa come from almost every imaginable habitat - temperate and tropical rainforests and dry forests, grasslands, streams, ponds, estuaries, and coral reefs - and from every continent except Antarctica, as well as numerous islands. The many areas of inquiry pursued by these researchers include the origins of symbiosis, the evolution of life history traits, rates of evolutionary change, biogeography, conservation, sexual selection, speciation, and natural selection at the molecular level. More than 35 new and continuing projects used the DNA sequencing facilities in 1998.

As it has in the past, during 1998 the lab continued to place an emphasis on education, training researchers from other countries, including visiting scientists, post-doctoral fellows, and undergraduates. The lab provided training and research facilities for scientists from seven countries and for over a dozen graduate students who are advised in their thesis research by Field Museum scientists. New projects already scheduled to start in 1999 will continue this emphasis on training and collaboration, and include expanded analyses of Southeast Asian sea snakes by new undergraduate summer interns from Hanover College (Indiana) and new investigations of poorly-known lichens by visiting scientists from Germany and Brazil.

The biotechnology facilities are a non-departmental unit of Academic Affairs supervised by a Management Committee, available for use by curators and staff members of the Museum. All users of the lab are responsible for designing, performing and financing their lab work. For more information on specific research projects, please see the webpages of any of the member of the committee that manages the facility: Bill Ballard (Zoology); John Bates (Zoology); Shannon Hackett (Zoology); François Lutzoni (Botany); Kathleen Pryer (Botany); Joe Walsh (Pritzker Lab).



## SCANNING ELECTRON MICROSCOPE

The Scanning Electron Microscope (SEM) is an invaluable resource for both original research observations and documentation of results. It allows researchers to examine fine surface details of three-dimensional objects at magnifications ranging from very low magnifications (10 times life size) to high magnifications (above 20,000 times life-size).

The SEM facility is a multi-user research area composed of a SEM and its ancillary equipment. Thirty-six curators, professional staff, students, research associates, and visiting scientists in Academic Affairs employed the SEM in their research projects in 1998. Investigators from the Departments of Botany, Geology, and Zoology obtained 1800 publishable SEM photographs.

Current research projects using the Scanning Electron Microscope range from various studies of the morphology and biology of fossil and living plants to investigations of the structure of skulls and teeth of fossil and living mammals. Other SEM projects include studies of the morphology of bird feathers, bat flies, lichens, and fossil crocodile teeth.

The SEM facility is supervised by Betty Strack. Her duties include training staff and students to use the SEM and keeping the instruments in good operating condition.

## SCHOLARSHIP COMMITTEE

The Field Museum encourages and supports the use of its collections and facilities by outside scholars and students. The Scholarship Committee is responsible for the review of applications and the disbursement of funds for visiting scientists, graduate fellows and undergraduate interns who wish to work with the Museum's collections or collaborate with its scientists. The Scholarship Committee administers six separate funds. These include the Borg-Warner Robert O. Bass Visiting Scientist Fund, the William A. and Stella Rowley Graduate Fellowship fund, the Karl P. Schmidt Fund, the Thomas J. Dee Fellowship Fund, the Lester Armour Graduate Fellowship fund, and the undergraduate internship fund.

During 1998, the Scholarship Committee, chaired by Lance Grande, awarded 28 scholarships, one fellowship, and five internships, in the four scientific departments. Seven scholarships were given to exceptional graduate or undergraduate students who have demonstrated a strong commitment to the study of natural history. Scientists came not only from the United States and Canada, but also from around the world: Argentina, Brasil, Bogotá, China, France, Hungary, Poland, Slovakia, and Venezuela.

### Scholarships and Internships Awarded in 1998

**Lester Armour Family Graduate Fellowship** (for outstanding graduate students to pursue advanced studies in one of the scientific departments at the museum) John Paul Schmit.

**Borg-Warner Robert O. Bass Visiting Scientists** (for the support of visiting scientists) Gloria Arratia, Alexei V. Kornushin, Elena Kossovitch, Guo-Qing Li, John G. Maisey, Ulrik Soechting, Eitan Tchernov, Carmen Benitez de Rojas, David K. Elliott, Maria Estela Mansur, C. Thomas Philbrick, Robert R. Reisz.

**Thomas J. Dee Fellows** (for research and academic fellowships with priority given to younger, less well established research workers and to graduate students) Philip C. J. Donoghue, W. Eugene Hall, Christine Keller, Harald Schneider, Theresa M. Schober, Rolf L. Aalbu, John Allsteadt, Martin Kundrat, C. L. & S. L. Staines, Bryan Stuart.

**Rose M. Louer Fund** (for students from Illinois or students working on projects relating to Illinois natural history) Greg Foster-Rice.

**Karl P. Schmidt Scholars** (for the training of young scientists who desire to study at The Field Museum) Robert M. Chandler, Julia Clarke, Carl W. Dick, Gaël Clement, Jean-Yves Dubuisson.

**Internships** (work experience whereby an undergraduate or recent graduate gains hands-on training in his/her field of expertise for one or more semesters) Shelly Ericksen, Stephanie Linde, Spring Maleckar, Katharine Meyer, Alice Yao.