

**THE FIELD MUSEUM  
1999 ANNUAL REPORT TO THE  
BOARD OF TRUSTEES**

**ACADEMIC AFFAIRS**

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## ACADEMIC AFFAIRS - 1999 ANNUAL REPORT

1999 was a year of significant transition and achievement for the people and programs that together constitute the research and collections component of The Field Museum, collectively known as Academic Affairs. The following pages detail the many accomplishments through which the Museum's scientific staff advanced the core mission of the institution.

Perhaps the most notable transition was the departure in August of Peter Crane, Vice President, Academic Affairs. After nearly seventeen years with the Museum, and more than seven as Vice President, Crane left to assume the position as Director of the Royal Botanic Gardens, Kew. Crane's legacy at The Field would be difficult to overestimate. Besides being a brilliant scientist—as evidenced by his election to the Royal Society in 1998—Crane left his mark on both research and public education at the Field through his leadership of the Museum's scientific programs. Besides cultivating a world-class faculty and stimulating an outstanding record of external fund-raising, Crane further developed the Center for Cultural Understanding and Change (CCUC) and Center for Evolutionary and Environmental Biology (CEEB), and advanced the Museum's conservation efforts by creating the Office of Environmental and Conservation Programs (ECP) in 1993. Crane worked tirelessly to strengthen the research profile of the Museum, and to further the integration of its collections-based research with its public programs—the notable examples being **Underground Adventure**, which he conceived in 1993, and the Museum web site, which under his direction advanced from a small-scale experiment to an award-winning destination with a million-plus annual visitors.

During the interim while a new V. P. is sought, leadership of Academic Affairs has been taken up by the Academic Affairs Management Group: Rüdiger Bieler (Chair, Zoology), Gary Feinman (Chair, Anthropology), John Flynn (Chair, Geology), Debra Moskovits (Director, Environmental and Conservation Programs), Gregory Mueller (Chair, Botany), Catherine Sease (Head Conservator, Anthropology, and Chair of Collections and Research Professional Staff), William Stanley (Collection Manager, Mammals), Alaka Wali (Director, Center for Cultural Understanding and Change), and Mark Westneat (Associate Curator, Zoology, and Chair of the Science Advisory Council). This group also serves as the Search Committee for the Vice President, Academic Affairs. Under the guidance of this team, the transition has gone smoothly, and the progress in the Museum's scientific programs has continued unabated.

While Crane's departure was a loss, significant additions to the Academic Affairs staff in 1999 continued to enhance vitality of the Museum's collections and research efforts. In the late summer, Gary Feinman joined the Department of Anthropology as Chair and Curator for Mesoamerican Archeology and Anthropology. Feinman has an international reputation as a leading scholar of Mesoamerica, and has recently undertaken extensive archeological survey research in China as well. Also in the summer, Anne Underhill joined Anthropology as Assistant Curator for East Asian Anthropology, and Zoology welcomed Paul Goldstein as Assistant Curator of Insects. Underhill, recently of Yale University, is considered a leading scholar of archeology in China, and is one of only three North American-based archeologists to be granted permission to conduct research in China. Goldstein arrives with a strong specimen-based background in moths and butterflies, and a broad range of interests and talents, from habitat conservation to plant-insect co-evolution to cladistic methodology.

Eve Emshwiller joined the Museum as the Abbott Laboratories Adjunct Curator of Economic Botany early in the year. Her research focuses on the systematics, genetic diversity and ethnobotany of the Andean tuber crop "oca" (*Oxalis tuberosa*) and its wild relatives. William Alverson began working as a Conservation Ecologist with ECP and Botany in June, after four years of molecular evolution/systematics research at Harvard University. He has extensive experience in conservation biology and forest management, and more recently with decentralized data networks for botanical images and standard reference lists of the scientific names of plants.

Two of our junior faculty were promoted in 1999. Meenakshi Wadhwa was promoted to Associate Curator of Meteoritics (Geology), and Chaparukha Kusimba was promoted to Associate Curator for African Archaeology and Ethnology. Since her 1995 appointment, Wadhwa has pursued a dynamic research program and conducted very active curation of the meteoritics collection, leading to the addition of several significant specimens. In addition to research support, she has secured extremely competitive lab and equipment funding from both NSF and NASA, including awards totaling over \$500,000 for the creation of a Geochronology Lab. Kusimba uncovered new insights into the rise of states on the East Coast of Africa, and his recently published book *The Rise And Fall of Swahili States* (Altamira Press) is already being hailed as a landmark in African Archeology. In addition, Peter Wagner was recently re-appointed to another three-year term as Assistant Curator in the Department of Geology. Wagner is an invertebrate paleontologist specializing in Paleozoic gastropods, and also conducts theoretical work involving mathematical models of evolutionary trends and morphological change.

January 2000 saw the appointment of two new Assistant Curators in Zoology, Petra Sierwald and Margaret Thayer. Both had served as Adjunct Curators in Insects prior to joining the career-track curatorial ranks. Sierwald is an expert in spiders and millipedes, serves as the Managing Editor of the *Journal of Arachnology*, and organized the International Congress of Arachnology at the Museum in 1998. She is also the recipient of a prestigious PEET grant (Partnership for Enhancing Expertise in Taxonomy), focusing on the systematics of millipedes. Thayer, who specializes in the study of staphylinid beetles, is Executive Editor of *Annales Zoologici*, and organized the Entomological Society of America symposium in 1998. Besides being widely published and respected in their respective fields, both scientists have helped build the Museum's Arthropod collection, and have made strong contributions to a wide variety of public education efforts, including the **Underground Adventure**, **Spiders!**, and **Living Colors** exhibits, the Biodiversity Explorers and "Bug Camp" intern programs, and Chicago Wilderness initiatives.

The Museum also continues to attract top talent in its Professional Staff. Lutz Bachmann joined the Museum as the Manager of the Pritzker Laboratory for Molecular Systematics and Evolution. Bachmann, with a Doctorate in Natural Sciences from the University of Tübingen, has published widely on genetics, and has extensive experience in a variety of molecular laboratory techniques, and genetic and phylogenetic analysis software. In the fall of 1999 Zoology's Division of Invertebrates welcomed Jochen Gerber as its new Collections Manager. Gerber has a Ph.D. from the University of Munich, and is a land snail specialist with much collection experience. Stephen Nash became the Head of Collections in Anthropology, after completing a post-doc on the Paul S. Martin collections project. Nash, who has a Ph.D. from the University of Arizona, and produced two recent books on tree-ring dating in North American archaeology, will oversee and coordinate collections care and use for the department. Also in 1999 Jennifer Steinbachs was appointed as the Museum's Computational Biologist. Steinbachs, a broadly-trained evolutionary biologist with a Ph.D. in plant population genetics from the University of Connecticut, spearheaded the creation of a high-performance computer cluster for the analysis of molecular data as part of a major NSF-funded project. She will play an active and important cross-cutting role in bioinformatics training at the Museum across all scientific departments, Computing, and the Pritzker Molecular Lab.

Another very significant addition to the ranks of permanent Academic Affairs staff is imminent. Building on groundwork laid by the Science Advisory Council (SAC) and the Academic Affairs Management Group, and propelled by the Trustee-led Strategic Planning initiative, in summer 2000 Academic Affairs will fill the first nine of a projected thirty-one new positions targeted for care of the Museum's world-class collections. Collections staffing is an area in which we have been far behind peer institutions, and the critical need for new collections staff to address deferred maintenance and keep pace with the demands of collections care and use, was central to the recommendations of both the Collections and the Research Teams for Strategic Planning. The Academic Affairs Management Group has worked to begin implementation of the initial phases of the plan.

Also joining us in 2000 will be two post-doctoral fellows in a new program named for former Museum President Willard Boyd—the first ongoing post-doctoral fellowship program ever sponsored by the

Museum. The Boyd Post-doc program is committed to the sort of interdisciplinary research that Dr. Boyd considered essential to our institution. An endowed post-doc program greatly enhances the academic profile of the Field, moving us toward greater parity with major research universities, and forms the basis for a program that, as prioritized in the Strategic Planning process, will expand into one comparable with the long-established and extensive post-doc programs at AMNH and NMNH. The Boyd Post-docs, one conducting research on plant-insect interactions in Botany and Zoology, the other studying public anthropology in CCUC, will join the Museum in the summer and fall, respectively.

The quality of the science in an institution such as ours is only as strong as the quality of its people. The new faces recently welcomed to our staff, and those anticipated in the near future, promise to further strengthen an already excellent staff roster and a world-class array of programs. The next 100 or so pages give specifics on the wide range of research, educational, and service activities carried out by Academic Affairs staff over the past year. An extremely brief highlights summary would include thirteen books, more than 200 publications in leading academic journals, edited volumes, and popular publications, \$3.6 million in competitive grant awards (\$1.2 million from the National Science Foundation alone), mentoring of 95 summer interns and supervision of more than 80 resident graduate students, and the teaching of 20-odd graduate and undergraduate courses at area universities. The Museum also sponsored two major symposia, the 1999 A. Watson Armour III Spring Symposium, "El Niño in Peru: Biology and Culture over 10,000 years," and "Ecology and the Chicago Region: From Cowles to Chicago Wilderness," as well as hosting the 1999 Soil Ecology Society International Congress, which welcomed an international array of scientists, and a meeting of the Science Team for NASA's Near Earth Asteroid Rendezvous (NEAR) spacecraft mission.

Field Museum researchers logged untold numbers of miles in the field in 1999, conducting collecting expeditions, museum studies, and biodiversity surveys in more than thirty countries, and across the length and breadth of the United States. As usual, our scientists were on the forefront of new discoveries, including the announcement in *Science* of two new dinosaurs from Madagascar thought to be the world's oldest, the confirmation of a new high-elevation species of *Nolana* in Peru (a desert-dwelling group of plants), and a new species of fish from Guatemala. (A February 1999 *National Geographic* article highlights the biodiversity surveys conducted by Steve Goodman, Field Biologist in Zoology, crediting him with the discovery of literally hundreds of new species over the past decade.)

The Museum was also extremely active in its conservation efforts. Environmental and Conservation Programs (ECP) Director Debby Moskovits and Conservation Ecologists Bil Alverson, Robin Foster and Tom Schulenberg conducted a rapid assessment in Pando, a region in far northern (Amazonian) Bolivia, to survey the conservation potential of two forests near the Peruvian border, in collaboration with other scientists from the Brookfield Zoo, the Colección Boliviana de Fauna, the Universidad Amazonia de Pando, New York University and State University of New York (Stony Brook). Two aquatic rapid assessments were also conducted in 1999, with international teams of scientists led by Associate Curator Barry Chernoff (Zoology/Fishes). An April AquaRAP surveyed the San Pedro River in Guatemala, part of the Peten, the largest freshwater wetland in all of Central America, and a second, in August, was conducted in the Rio Pastaza, in Ecuador and in Peru; AquaRAP aims to determine what impact certain environmental threats would have on aquatic systems, and thus provides information about sustainable use of those ecosystems.

Many other Field Museum curators have developed strong conservation components in their research programs, such as Associate Curator Larry Heaney (Zoology/Mammals), who was recently appointed a member of Conservation International's Philippines Science Advisory Board, and is currently participating in a national effort within the country to develop a scientifically-based priority plan for development of its national park system. Thanks in large part to the efforts of Heaney and colleagues, the Philippines was listed as the "hottest of the conservation hotspots" in a recent CI review of global conservation priorities, and the Museum continues to provide a primary site for advanced training of Filipino conservation biologists—three such visitors in 1999 produced the first field guides to the mammals, plants, and frogs of the Philippines, in collaboration with Robin Foster of ECP.

In terms of grant success, 1999 was another exceptionally strong year. A total of \$5.6 million in awards were processed through Academic Affairs' Office of Sponsored Programs, ably directed by Deborah Bakken. Of that figure, \$3.6 million were awarded to research initiatives or collections improvement/access projects, with a third of that coming from the National Science Foundation. The whole spectrum of Field Museum science is represented in these awards. For example, a major grant under the National Science Foundation's PEET ("Partnership for Enhancing Expertise in Taxonomy") program was awarded to Rüdiger Bieler (Zoology) and Co-PI Paula Mikkelsen (Research Associate, Zoology, and AMNH) for a project on bivalves, funded at a level of nearly \$ 1.1 million (\$750,000 from NSF, the balance from participating institutions). The PEET program targets groups for which an urgent need for monographic research and the training of new specialists has been recognized. NSF also awarded a research grant in the amount of \$99,960 to Curator Olivier Rieppel (Geology) for a project on placodonts, a marine reptile from the Upper Triassic. Rieppel's study will conclude the global revision of Triassic stem-group Sauropterygia which he has been pursuing for several years, resulting in a volume on that group for the *Encyclopedia of Paleoherpertology* that he has been commissioned to write. The Center for Cultural Understanding and Change was awarded \$100,000 by the MacArthur Foundation in support of its Urban Research Initiative, which aims to utilize ethnographic research to understand social change in 21st century urban environments. ECP staff and collaborators from other departments succeeded in securing a number of grants to support conservation and environmental efforts, including an operating support grant (\$750,000), and a grant to support the development of the *Birds of Peru* volume (\$40,000) from the MacArthur Foundation, as well as \$350,000 from the Mellon Foundation for the Rapid Reference Collection in tropical botany. The Comer Science & Education Foundation awarded grants totaling \$445,000 to three aquatic research projects in Zoology, supporting the field components of two fish projects—Barry Chernoff's freshwater "Orinoco Project," and Mark Westneat's marine "Solomon Islands/Santa Cruz Expeditions"—and an invertebrate study, Rüdiger Bieler and Paula Mikkelsen's "Documenting Molluscan Diversity in the Florida Keys."

By all measures the year 1999 witnessed an increase in both the quality, and the pace, of achievement in our collections and research programs. Thanks to the guidance of the Board of Trustees, the Strategic Planning effort promises to further strengthen these core Museum functions in the near future, with major upgrades in collections care and access, endowed curatorships, additional collections staff, and major laboratory upgrades. The Trustees also reaffirmed the Museum's commitment to environmental conservation, and endorsed the expansion of its environmental programs and its dedication to conservation action efforts.

These concrete outcomes of the Strategic Planning process are immensely important, but the opportunity for sustained self-evaluation and benchmarking also proved to be enormously useful to Academic Affairs. The process not only helped determine key needs and areas for reallocation and/or growth, but it also reinforced in tangible terms the level of excellence we have achieved over the last few years. It is appropriate here, however briefly, to acknowledge the efforts of the Trustee Leaders for the Environment, Collections, and Research Teams: Susan A. Willetts, Worley H. Clark and Miles D. White, respectively. Their commitment, leadership and wisdom pushed the process beyond an "exercise" to the level of tangible goals, and substantive outcomes that we are already beginning to witness. The staff of Academic Affairs who served as staff representatives on these Teams are grateful for the opportunity to have assisted the Trustees in their considerations. As members of the Museum staff who have been closely involved with the Collections and Research Committee of the Board over the past decade, we would also like to take this opportunity to thank Mr. Clark for his six years of leadership as Chair of the Collections and Research Committee of the Board, as we welcome Mr. White as his successor.

One of the central issues that emerged from the Strategic Planning process—a challenge explicitly posed by the Trustees—is the need for the Museum's "behind-the-scenes" science consistently to inform its exhibits and public education programs. This integration defines the Museum's potential to be unique, and is the key to differentiating itself from other institutions, in Chicago and around the world. But this uniqueness depends directly on the excellence and reputation of the research institution. While new exhibits and individual high-profile discoveries have important benefits to the Museum, a top-quality curatorial faculty invests the Museum with an engine for continuing discoveries that

provides value far beyond a single exhibit. The explorations conducted by our scientists every day in the labs, collections, and out in the field, forms the core “product” of the Museum, the knowledge base that informs the learning that we share in our public halls. It is the work carried out every day by 200-plus research and collections staff (and students, associates, and volunteers) that fuels the public’s fascination with the institution, and with the kinds of knowledge that the Museum not only holds, but *creates*. As we continue to expand the scope and caliber of our staff, we will accelerate our capacity to do ground-breaking science and thereby strengthen that intellectual foundation. The faculty and staff in Academic Affairs look forward with enthusiasm to advancing the knowledge creation behind the scenes, and using that knowledge to contribute in a real way to the Museum’s public outreach mission at all levels.

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(as of March 15, 2000)

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## CENTER FOR CULTURAL UNDERSTANDING AND CHANGE

### **“Understanding Cultural Diversity”**

The collections of material culture housed in The Field Museum under the care of the Anthropology Department have been a rich source of knowledge about different aspects of the human experience through time. They are clues of sorts to the life ways, technologies, and histories of peoples who have lived or continue to live in a wide variety of environments around the world.

One of the most important aspects of human life upon which the collections can shed light is the way that humans have used natural resources and shaped their habitats.

Indeed, a major emphasis of museum anthropology has been to explain the place of human beings within the natural world. The Field Museum is a leader in the effort to put the expertise gained from the interpretation of all our collections—natural and cultural—to the service of better care and protection of the world’s environments.

Anthropological research on cultural variations indicates that the relationship between humans and their environments has been enormously complex. While much has been learned, much still remains to be discovered about the ways in which contemporary, as well as ancient, patterns of resource use have left their mark on both cultural and natural landscapes. New research is helping us move beyond old paradigms of thinking that divided the world into neat categories such as “natural” and “cultural” or “primitive” and “modern” toward a more useful understanding of the processes underlying dynamic and changing ecosystems of which humans are an integral part.

Some of the most exciting research is an interdisciplinary effort among ecologists, linguists, cognitive scientists, and anthropologists to study the links between cultural diversity and biological diversity. Scientists who have studied the linguistic and knowledge systems of indigenous people in the lowland rain forests of Southern Mexico and in Amazonia have found that they have a large repertoire of referents and taxonomies about the flora and fauna of their environments. Anthropologists and geographers have also noted a high correlation between areas where indigenous peoples live and zones of high biological diversity. Research remains to be done on what the significance of such correlations are, and on the ways in which maintenance of cultural diversity can help preserve biological diversity.

Yet it would be over-simplistic to say that these seeming links mean that indigenous peoples are the “natural” stewards of the environment. Archeological and historical research has shown that people’s shaping of the environment has led at times to its degradation, and that current patterns of destruction are not entirely new. Additionally, indigenous cultures have changed significantly as indigenous people have steadily lost access to their homelands and have experienced in often traumatic ways the effects of industrialization and intensive resource exploitation caused by Western economic systems. As a result, they have lost considerable knowledge about how to manage natural resources without degrading their environment.

Today, diverse knowledge systems and perspectives are required to find solutions to the problems of environmental destruction. Neither indigenous knowledge nor scientific knowledge alone will contain the answer. The Center for Cultural Understanding and Change is working with Environment and Conservation Programs to forge new ways to integrate scientific and local knowledge toward devising better and more effective conservation strategies. The first project we plan to undertake will be to develop a conservation plan for a reserve in the Pando region of Western Bolivia, a vast stretch of forest that has long been managed and maintained by indigenous people and subsistence-oriented horticulturalists whose main livelihood comes from extracting rubber and gathering Brazil nuts. This managed ecosystem is apparently an important habitat for several species of primates, as well as other fauna. Working in collaboration with a number of international and local organizations, The Field Museum team of anthropologists, educators, biologists, ecologists, and botanists will work on a conservation plan that can prevent wholesale logging and other forms of

intense resource exploitation that will destroy this long-sustained ecosystem.

But threatened ecosystems do not only exist in remote areas; nor is the potential of cultural diversity limited to people who reside in seemingly exotic locales. Indeed, the majority of the world's population live in urban regions and cities and are having a major impact on the global environment through patterns of energy and resource consumption. Yet, even within urban areas, we are finding diverse micro-environments, including "wilderness" areas, and we are finding that a critical element for managing urban resource use may be understanding and valuing diverse ways in which people appreciate and use resources within the urban landscape. Here, where economic and cultural forces seem to exert tremendous pressure for cultural "homogenization," we find that people still find ways to maintain different ways of thinking and acting.

For example, research conducted through CCUC's urban research initiative, supported in part by The John D. and Catherine T. MacArthur Foundation and The John Nuveen Company, indicates that in the Calumet Lake region on the far South Side of Chicago, people have maintained and valued wetland and prairie remnants. Local residents recounted their memories of fish to be found in the lakes and discussed their attachment to the region, despite its current devastated appearance, a result of the accumulation of brownfield areas and garbage landfills. In the next year, CCUC hopes to do further research in this region on the social and human ecology that will complement the on-going work ECP scientists are doing to document the biological diversity of the region. Similarly, we've documented the ways in which African-American urban gardeners in North Lawndale draw on generationally transmitted lore about horticultural techniques from the South (especially the Mississippi delta) to create dense varieties of cultigens on formerly "vacant" lots. Research like this on the human-environmental interface in urban contexts will be vitally important in the long-run if we are to improve the quality of life in our cities.

The complexity of cultural diversity mirrors the depth of biological diversity still to be found around the world and here at home. The collections of The Field Museum are a testament to the intimate ways in which humans are bound up with all other life on earth. Even as basic field and collections-based research across the disciplines uncovers the processes and pathways through which we are linked on the Tree of Life, the efforts of CCUC and ECP can direct that research toward the efforts necessary to sustain a balanced approach to resource use and environmental conservation.



## CENTER FOR CULTURAL UNDERSTANDING AND CHANGE

### **Programs and Initiatives**

The Center for Cultural Understanding and Change (CCUC) considerably expanded the scope of the dissemination of anthropological research through public programs, and through training and research initiatives as a result of continued success in obtaining grants for its projects. The Center's vital role in fulfilling the mission of the Museum to deepen awareness of cultural diversity is reflected in the new strategic plan. CCUC will be active in the Museum's efforts to improve the quality of urban life through its urban anthropology programs. The Center will also be instrumental in the Museum's leadership initiatives to develop new models for environmental conservation centered on active roles for local people as managers and protectors of natural resources. CCUC Director Alaka Wali, External Affairs Manager Jacqueline Gray, and Special Projects Coordinator Madeleine Tudor continue to develop several innovative programs within these areas. Due to the increase of projects and programs, an additional half-time position of Administrative Assistant was added to the staff.

### **Special Initiatives**

"Cultural Connections" is an initiative of the Center and developed in partnership with area ethnic museums and cultural centers. With anthropology and collections as its foundation, the program engages participants in a cultural exploration that uncovers the universal connections between us all. There are fifteen institutions participating, including the seven partners from the previous year's program. The partners are the Balzekas Museum of Lithuanian Culture, Chicago Historical Society, Chicago Japanese Historical Society, Czechoslovak Heritage Museum, DuSable Museum of African American History, Filipino American Historical Society of Chicago, Hellenic Museum and Cultural Center, Korean American Resource and Cultural Center, Mexican Fine Arts Center Museum, Polish Museum of America, Saint Andrew's Scottish Society, Spertus Museum, Swedish American Museum, and the Ukrainian National Museum.

The "Urban Research Programs" of CCUC grew in 1999 through three initiatives. First, the collaborative work with The Oakton Project, funded in part by The John D. and Catherine T. MacArthur Foundation was completed. Ethnographer Rebecca Severson gathered and then analyzed data on this community performance project. The ethnography that resulted demonstrates the powerful ways in which artistic endeavors can transform community perspectives and engage people's imagination and creative energy. Additionally, the Center facilitated the creation of a small exhibit on the project that was displayed at the local elementary school, from which the project stemmed. This first-time collaboration on an exhibit housed outside the Museum and done for a community demonstrates that The Field Museum has the capacity to reach out in innovative ways to our constituencies. The creation of the Oakton exhibit was cited in the successful proposal to the National Science Foundation for the exhibit **Chocolate!** as an example of the Museum's collaborative work. CCUC also hosted The Oakton Project's performance of *Crossroads* at The Field Museum.

Second, the Center entered into a new partnership with the Chicago Center for Arts Policy of Columbia College. Alaka Wali is serving as the Principal Investigator of an important new research study examining the social impact of the "Informal Arts" on civic life in the Chicago metropolitan region. The research study will investigate an under-documented phenomenon: the efforts at creative expression undertaken by people outside of the commercial and institutional arts arenas. The study's objectives are to understand the vital role that art plays in everyday life for a broad sector of the population. The study will last two years and funds awarded from the study will be used to support further urban initiatives of CCUC.

Finally, CCUC was able to expand the "Civic Activism in City Life" program as a result of an additional grant from the MacArthur Foundation and through the continued support from the John Nuveen Company. The summer internship program almost doubled in size, training 15 students (up from eight the previous summer) and collaborating with ten community-based organizations. The results of the student's research were presented at a special event at the end of the summer. In the fall, discussions with the community based organizations on how to build on the findings of the research

continued. In the meantime, the new CCUC web pages featuring the work of the 1998 summer program went “online.” CCUC is learning much about our city and the innovative solutions that people are devising to solve problems. This knowledge contributes to our overall understanding of how cultural and social factors shape our social relationships. The knowledge will also help the museum design new public programs that can bring the understanding of contemporary life into the comparative framework of our understanding of humans around the globe—in the present, as well as in the past—that has been our strength.

The “Community Conservation” Program continues the Center’s interdisciplinary work to promote a greater understanding of human interaction with the environment and how we can more effectively promote conservation goals. In 1999, CCUC embarked on an exciting initiative with Environment and Conservation Programs (ECP) and the Education Department to develop a new initiative in community conservation. The initiative will have a local and an international face. On the local level, CCUC has submitted a proposal to the National Science Foundation for funds to conduct research in the Lake Calumet region of Chicago, where we hope to promote stronger community efforts in wilderness conservation. At the international level, the Center started working with ECP on the development of a conservation plan for the Pando region of Western Bolivia, a forested area known especially as a primate habitat. The project is a joint effort of the Field Museum, The Brookfield Zoo and World Wildlife Fund.

### **Contributions to Public Programs**

In 1999, CCUC made major contributions to several key special exhibits. First, in conjunction with the summer exhibit, **The Art of Being Kuna**, the Center, with special project funds from the Academic Affairs Division, hosted a wonderful delegation of Kuna leaders from their native territory, “Kuna Yala,” on the Caribbean Coast of Panama. The delegation consisted of one of the three major Caciques (High Chiefs) of Kuna Yala, accompanied by the Secretary of Kuna Yala, together with two of the officers of the Kuna Yala Women’s Mola Cooperative and a renowned Kuna educator who has pioneered bicultural educational curriculum development. During their stay in Chicago, the Kuna delegation attended a special program at the Native American Educational Services (NAES) College—hosted by Faith Smith, the President of NAES and a Field Museum Trustee. In that special evening, experiences were shared by Indian peoples with the common goal of preserving their cultural heritage. CCUC also facilitated a visit of the Kuna delegation to the MacArthur Foundation where they presented a proposals to support the work of the Kuna General Congress and the Mola Cooperative. The Kuna delegation took part in a number of programs during the weekend the exhibit opened, including the impressive opening ceremonies, mola craft demonstrations, and a major presentation to the Cultural Collections Committee. Also taking part were leading anthropological scholars who have conducted research in Kuna Yala, including the curator of the exhibit. In addition to this delegation, later in the summer, the Center hosted another delegation from Panama, of two Kuna and one Panamanian ecologists who have been in the forefront of the struggle to preserve the biological diversity of Kuna Yala and Panama’s Caribbean Coast. The delegation took part in a day-long program highlighting the role of indigenous people in the environmental protection efforts. The program also showcased local efforts, including those of the Menominee Indians of Wisconsin and our own Chicago Wilderness. Again, the cross-cultural perspective helped audiences understand the common concerns that underlie efforts in vastly different places.

Second, Alaka Wali served as content specialist for the exhibit **Sounds from the Vaults**. Additionally, CCUC worked with the Education Department on the programs for the opening ceremony for the exhibit. During the annual meetings of the American Anthropological Association, CCUC hosted a reception for the Council on Museum Anthropology that featured **Sounds from the Vaults**. The exhibit drew rave reviews from the anthropologists in attendance.

Finally, CCUC organized several seminars and lectures helping to bring in local scholars, such as Professor James Brown of Northwestern University and Professor James L. Phillips, University of Illinois at Chicago, as well as others, such as Professor Alexander Moore of University of Southern California, Professor James Howe of the Massachusetts Institute of Technology, and Professor Mari Lyn Salvador of the University of New Mexico.

## ENVIRONMENTAL AND CONSERVATION PROGRAMS

In 1995, as it entered its second century, The Field Museum renewed its commitment to biodiversity and conservation by launching a new interdepartmental initiative: Environmental and Conservation Programs (ECP). ECP focuses on linking the wealth of the Museum's scientific and collection resources with the immediate needs of conservation at the regional, national, and international levels. A central goal of ECP is to catalyze science-based action for conservation throughout the Museum.

Collaborations form the core of ECP's activities. Expanded partnerships within the Museum, as well as with Chicago Wilderness, local and international conservation organizations, and in-country research institutions enable the Museum's rapid inventories—in the tropics and in Illinois—to draw together the best field experts to address urgent inventory needs and to stimulate action. In 1999, with the support of the MacArthur Foundation, ECP collaborated with scientists from Brookfield Zoo, the Colección Boliviana de Fauna, the Universidad Amazonica de Pando, New York University, and the State University of New York/Stony Brook to conduct a rapid assessment of forests targeted for immediate logging in the biologically diverse Pando region of northern Bolivia. The inventory results, subsequent meetings with government officials, and continued negotiations among our Bolivian partners have led the timber company to alter its plans and set aside an 85,000-hectare biological reserve in the area. As details for the reserve are finalized, steps already are underway for a comprehensive conservation plan for western Pando, a collaborative international initiative spurred by the rapid inventory.

Similarly, a recent AquaRAP (Aquatic Rapid Assessment Program, a partnership with Conservation International), led by Barry Chernoff in Zoology (Fishes), resulted in 1999 in the establishment of a 10,000-hectare aquatic preservation area in the Pantanal region of South America. Originally a joint program between ECP and Zoology, AquaRAP is now led by the Zoology Department.

Collaborations among Zoology, Botany, and ECP underlie the success of the regional initiative Illinois Rapid Assessment Program (IRAP). Protocols for rapid assessments in temperate regions will be available in 2000. One of the IRAP pilot sites, Swallow Cliff Woods, is also the focus of a multiyear collaboration between the Museum and the Forest Preserve District of Cook County. This research tracks the effects of brush removal and burning on several organisms of the critically endangered oak-woodland community.

Meanwhile, creative use of the Museum's collections is transforming them into invaluable tools for conservation and training. In 1999, the Mellon Foundation renewed its support of the Rapid Reference Collection in the herbarium. This selected subset of herbarium sheets is organized to meet the pressing need of conservation ecologists for accelerated identification. And in continued work with Cornell Laboratory of Ornithology, ECP scientists are assembling series of bird vocalizations onto compact discs—a new resource to transfer expertise in bird identification to local scientists and land managers.

In its commitment to enlist participation of the human communities in and around diverse and threatened ecosystems, the Museum forged a new partnership to bring Earth Force's Community Action and Problem Solving (CAPS) to the Lake Calumet region. CAPS enables youths in grades 5-9 to change their communities and to care for the environment. This collaboration with Earth Force strongly complements conservation education programs that the Museum has catalyzed—Mighty Acorns (a program in hands-on restoration that targets grades 4-6), Junior Earth Team (a collaboration with the U.S. Fish and Wildlife Service and the Chicago Park District, targeting underserved teens), and the Illinois Department of Natural Resources' UrbanWatch for high school students and adults. This rich array of programs facilitates longitudinal participation in active conservation and stewardship.

In the Amazonian lowlands of Ecuador—a region with more biological riches than anywhere else on Earth—ECP continues to strengthen its partnership with the Cofan indigenous community of Zábalo, working to establish a broad-based framework for conservation in the Cuyabeno Wildlife Reserve.

## THE FIELD MUSEUM AND CHICAGO WILDERNESS

In 1996, a coalition of diverse and determined organizations launched a new force on the landscape. Their vision led to Chicago Wilderness, a vital, 200,000-acre mosaic of natural land embedded in the third-largest metropolitan area in the United States. In this vision, the region's human communities reclaim a cultural tradition of restoring, protecting, and managing the globally outstanding natural communities that enrich our lives. In the three years since its creation by the 34 founding organizations, the ranks of Chicago Wilderness have expanded to 98 member institutions, including practitioners, government and non-governmental organizations, and educational institutions, among others. From the beginning, The Field Museum has been among the leading participants of Chicago Wilderness.

The roadmap for Chicago Wilderness is its Biodiversity Recovery Plan. A product of three years of intensive effort, the Recovery Plan creates a vision for the future of biological diversity in the region. The document classifies and describes natural communities; identifies communities and species at risk, as well as the forces that threaten them; and recommends goals and strategies in ecological restoration, protection, management, education, and public policy. Field Museum scientists and educators have contributed greatly both to the evolution of the Recovery Plan itself and to actions that further its goals. In December 1999, the Northeast Illinois Planning Commission, an authority on development issues for the region, unanimously adopted the Biodiversity Recovery Plan.

Highlights of The Field Museum's work in Chicago Wilderness during 1999 reflect both the Recovery Plan and the Museum's strategy for Environment and Conservation.

### *Rapid inventories of biological diversity*

In 1999, the Illinois Rapid Assessment Program (IRAP), a collaboration between The Field Museum and the Illinois Department of Natural Resources (IDNR), completed three years of fieldwork. IRAP focuses on intensive yet time-effective inventories of the biological richness of sites in Chicago Wilderness. In 2000, a detailed IRAP report will present and integrate the results for four test sites and eight groups of focal organisms and describe protocols for rapid inventory in temperate regions.

### *Conservation design*

Over the past year, Environmental and Conservation Programs (ECP) has led a Recovery Plan effort in conservation design: the direct derivation of conservation goals and strategies from biological values and threats to those values. Our aim has been to unify regional efforts toward agendas for ecological research, inventory, and monitoring that support adaptive management in Chicago Wilderness. Results led to a recommended action plan for the Science and Land Management Teams of Chicago Wilderness.

### *Citizen science*

The Field Museum made great strides in the development of UrbanWatch, the newest addition to the statewide program EcoWatch, fostered by IDNR. EcoWatch trains the public (including adults and schoolchildren) in protocols for ecological monitoring and habitat characterization. The data from these citizen scientists allow IDNR to evaluate trends in the health of Illinois ecosystems. UrbanWatch focuses on urban ecology in Chicago Wilderness.

### *Biodiversity education*

Mighty Acorns, managed jointly by The Field Museum and The Nature Conservancy, expanded in 1999 to involve 18 partners and 5,000 urban 4<sup>th</sup>-6<sup>th</sup> graders in exploration and stewardship of the prairies, woodlands, and wetlands of the Chicago metropolitan area.

In 1999, ECP took lessons learned in Chicago Wilderness to partners in Hawaii, Mexico City, and Brazil, all of which seek successful models for saving nature in the metropolis. Collaborations with a budding effort in Brazil led to their accelerated launching of the Condomínio da Biodiversidade to protect critically endangered Atlantic Forest fragments in the urban center of Curitiba.

## THE FIELD MUSEUM WEB SITE

The Field Museum's web site continued to show impressive growth in 1999. The site drew more than one million visitors (1,103,574)—an increase of 222% over 1998 (495,692). Visitors also spent more time browsing the site, averaging 9.87 minutes in 1999, up from 7.64 minutes in 1998. Significant peaks in usage occurred on March 18<sup>th</sup> when the McDonald's Fossil Preparation Laboratory web camera went live, and on October 22<sup>nd</sup> when Public Relations announced the possible discovery of the world's oldest dinosaur by John Flynn, MacArthur Curator, Fossil Mammals.

Several new projects generated continued interest in the web site. A companion site for the temporary exhibition *Women in Science* went on-line in January, developed in collaboration with the *Women in Science* Exhibits team. The site features interviews with thirteen women scientists working at The Field Museum, and includes how they became interested in science, who served as role models, and advice on developing a career in science.

A new web site on the Museum's research, collections, exhibits, and training programs in Africa launched in February in conjunction with the Museum's African Heritage Festival. This site serves as the companion piece to the award-winning brochure on Africa published by Academic Affairs last fall.

An interactive, educational web site for the new permanent exhibit **Underground Adventure** was launched in March, developed in collaboration with the Education Department and an outside vendor. This site contains movies of the exhibit, a teachers' curriculum, and a virtual terrarium that illustrates the dynamic relationships among plants and animals that live in soil.

A companion web site for the **Sounds from the Vaults** temporary exhibition was developed in collaboration with the Exhibits Department and an outside vendor. The site allows web visitors to play on-line several musical instruments from the Museum's collection.

In July, the web team coordinated the installation of a web camera to accompany the opening of the temporary exhibit **The Tibetan Art of Healing**. Over a period of two weeks, web visitors could watch as Tibetan monks created a sand mandala in the Museum's Stanley Field Hall.

Several new research sites also were added to the web site. Kathleen Pryer, Assistant Curator, Pteridophytes developed the site, "Phylogeny, character evolution, and diversification of extant ferns." This site was recognized as outstanding by the HMS Beagle and the Scout Report for Science and Engineering. This recognition was also awarded to the site "The Mushroom Genus *Laccaria* in North America," developed by Greg Mueller, Associate Curator, Mycology. "The Singer Index," developed by Mueller and Qiuxin Wu, Collections Manager, Mycology, features an index and bibliography of mycologist Rolf Singer's 440 publications as a searchable database.

The "Parker/Gentry Award" web site, developed by Environmental and Conservation Programs, highlights recipients of The Parker/Gentry Award given to honor an outstanding individual, team, or organization in the field of conservation biology. Robin Foster, Conservation Ecologist, launched the "Rapid Color Guides" site as part of a program to produce tools to speed up recognition and identification of organisms, particularly plants of the American Tropics.

On October 22<sup>nd</sup> the Museum launched a completely updated web site. Rebuilt to brand it with the Museum's new identity, and to improve navigability for users, this major project was the team effort of Lori Breslauer, Web Manager; Allyson Meyer, Web Developer; and Brad Loetel, former Web Master; plus staff from nearly every department. Among the new features are "Planning Your Visit," which has its own section, making it easier for visitors to prepare for a trip to the Museum. The "Calendar of Events" pulls all public programs into one searchable database, and "Exhibits" offers expanded information and more images. Membership now has its own section, and the Museum Store has greatly expanded its presence and includes impressive offerings tied to Museum exhibits.

## TRAINING PROGRAMS, 1999

The Field Museum provides a broad range of formal and hands-on training in collections-based research to high school, undergraduate and graduate students, and young professionals each year. Building on the Museum's core subject matter in evolutionary and environmental biology and cultural understanding and change, these programs meet a variety of needs—from encouraging young students to consider a career in the sciences, and providing training to minority and women undergraduates (two groups underrepresented in the sciences), to training young professionals from developing countries to tackle environmental conservation issues at home. The brief synopsis below provides an overview of 1999 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 program introduces students to environmental biology and collections-based research through a program of field work, laboratory work, lectures and “behind the scenes” museum tours. This year, the 5<sup>th</sup> year of the program, five exceptional students joined the Museum's local survey program of insects of the Chicago area. The students went on collecting field trips once or twice a week to collect specimens at such sites as Swallow Cliff Woods and the Chicago Forest Preserves. The rest of their time was spent in the lab and collections, processing specimens and entering data into the Insects database. The students participating in the program were entering Juniors for fall 1999 at Brother Rice, Maine South, St. Joseph (Westchester), Naperville North, and the Willows Academy (Des Plaines).

**Wood Internship.** This summer internship provides support for one Chicago area high school student. Funded by an endowment, this program allows one junior or senior high school student to get hands-on experience in collections-based research. This year's intern assisted with the Department of Zoology's insect survey program.

**Bug Camp.** Bug Camp is a creative program designed to provide students with a real-world experience that will broaden their view of the natural world and the career opportunities available in the sciences. Bug Camp was developed at The Field Museum in 1996 and aims to foster the interest and career development of 7<sup>th</sup> through 9<sup>th</sup> grade students in preparation for high school. The students are exposed to field work and laboratory research, as well as numerous seminars by staff of the Museum's Zoology Department. The summer 1999 program hosted nine students from St. Clement School, Chicago, The University of Chicago Lab School, The Ancona School, Chicago, and Wilmette Junior High School.

**Other High School Interns.** During 1999 four high school interns worked in Anthropology, three in Geology's fossil mammal project (including one listed under the Prince program, below), and four in various Zoology divisions. Schools represented include Rich Central, Kenwood Academy, Frances Parker High School, Evanston Township, The Latin School, Waukegan High School, New Trier, Illinois Math and Science Academy, and Hinsdale Central.

**EarthForce/Calumet Program.** The Earth Force Community Action and Problem Solving (CAPS) initiative, a partnership with Environmental and Conservation Programs, began in ten sites (600 students) in the Lake Calumet region in 1999. A service, learning, environmental and civics education program, EarthForce targets students in grades 5 to 9 and focuses on community environmental issues. Training for 22 educators at the ten sites (including Lavizzo Elementary School in Roseland, Eastwisch Girl Scouts in Hegewisch, Minority Health Coalition in LaPorte County, IN) took place in August. The program runs from September to April.

**The Junior Earth Team.** In 1999 the U.S. Fish & Wildlife Service renewed its collaboration with the Museum and the Chicago Park District to engage urban teens in environmental programs and internships. So far, 120 teens—90% minority—have participated in the Junior Earth Team (JET)

program, which provides Chicago high school students hands-on experience in education at local parks, while exposing them to a wide variety of environmental careers. JET students conduct natural resource surveys, learn about environmental issues both local and international in scope, teach environmental concepts to younger students, and take monthly field trips to Chicago Wilderness sites. 1999 participating JET parks were Kelvyn, Humboldt, Pulaski, Calumet, Jackson and Margate.

## 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. For summer 1999, internships were awarded to six students from Northwestern University, Beloit College, University of Hawaii at Manoa, Wellesley College, University of California–Berkeley, and the University of Chicago. The students worked on research projects in Anthropology, Geology, and Zoology (one in Birds and one in Fishes).

**Native American Internship Program.** Since 1990 the Museum has offered internships for Native American students to work with the Museum's Native American collections. The interns assist with the Museum's repatriation program, inventory individual tribal collections, conduct research to respond to repatriation requests, and assist with visits of Native Americans to The Field Museum collections. Two interns, one from the School of the Art Institute of Chicago and one from University of Illinois at Chicago, worked with the collections during 1999.

**Prince Visiting Scholars Program.** This program provides support to recruit and train women and minority interns at the secondary and college levels. During the summer of 1999 the Prince program supported eight undergraduate interns in Botany, Zoology (Amphibians and Reptiles), and the Center for Cultural Understanding and Change. Schools represented include Iowa State University, Knox College, University of Illinois at Chicago, and the University of Chicago. In addition, one high school student from Ithaca High School in Ithaca, NY worked in the Geology Department's fossil mammal collection with the support of the Prince program.

**Urban Research Internship Program.** This is a new program in the Center for Cultural Understanding and Change, in which graduate and undergraduate social science students provide ethnographic research for Chicago community-based organizations and receive training in qualitative analysis and innovative strategies of public education at The Field Museum. It is one component of a larger urban research initiative to document and learn from social processes in the metropolitan region, furthering the Museum's commitment to develop connections with the local community. During 1999 nine undergraduate and six graduate students participated in the program, which is supported by the MacArthur Foundation.

**Other Undergraduate Internships.** In Anthropology seventeen undergraduate interns worked on a variety of paid or for-credit projects, ranging from training in collection management and conservation techniques, to assistance with the Paul Martin archaeological collection, to research on African archaeology. Schools represented include University of Illinois at Chicago, Queens University in Toronto, and Loyola University. Eight students worked on Botany collections and research projects during the year, hailing from such schools as the University of Chicago, Kenyon College, and Reed College (Portland, OR). Four students from the California State University system worked on the preparation of the fossil *T. rex* "Sue," and five other undergraduate students (University of Chicago, Harold Washington College) worked on Geology projects relating to fossil mammals, meteorite research, and invertebrate paleontology. In Zoology, six students worked on a range of collections and research projects supported by grant or department funds. The interns were students from the University of Illinois at Chicago, University of Chicago, and the School of the Art Institute. In Environmental and Conservation Programs, seven 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

**UrbanWatch.** UrbanWatch, a collaboration with the Illinois Department of Natural Resources, is a high school and adult volunteer program that focuses on creating biological profiles for urban sites: city parks, tree-lined streets, schoolyards. The goal is to develop management plans that favor native plants and animals—from snails to butterflies to migrating birds. The fourth UrbanWatch pilot was completed in summer 1999. The one-day pilots engaged 41 volunteers, who provided feedback on the UrbanWatch protocols developed by scientific staff in Zoology, Botany and Environmental and Conservation 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, 67 ATP/CTC participants from thirty 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. Eleven scientists participated in 1999; participants with Field Museum advisors include a botanist from the Universidad de Los Andes in Colombia, an ornithologist from the Ghana Wildlife Service, and an ornithologist from the Universidad de San Marcos in Peru.

**Uganda field course.** David Willard, Collection Manager of Birds, conducted a field course in ecology and conservation in Uganda during summer 1999. This was the third year of a 4-year project, supported by a training grant from the MacArthur Foundation to Adjunct Curator, Julian Kerbis (Zoology/Mammals).

**African Biodiversity Training Program.** Under the direction of Dave Willard (Collection Manager of Birds) and Adjunct Curator Julian Kerbis (Zoology/Mammals) this program sponsored the extended visits of professionals from the National Museums of Kenya, the Museum of Zoology, Makerere University, Kampala, Uganda, and the Islamic University in Mbale, Uganda. The visitors studied the medicinal potential of certain east African plants, received training in specimen preparation and curatorial techniques, and gained experience in the preparation of research proposals.

**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.

**University of Chicago – 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 universities in the Chicago area and around the world. Many Field Museum staff taught undergraduate courses and graduate seminars during 1999, and also participated extensively as graduate student advisors and committee members. In 1999 The Field Museum provided training in collections-based research to over eighty resident graduate students attending the University of Chicago, the University of Illinois at Chicago, Northern Illinois University, Governors State University, Northeastern Illinois University, as well as the University of Florida, the University of Tennessee, the University of Sao Paulo, and the National University of Singapore.



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**CENTER FOR CULTURAL UNDERSTANDING AND CHANGE**

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## ENVIRONMENTAL AND CONSERVATION PROGRAMS

### **William S. Alverson**

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and B. A. Whitlock, R. Nyffeler, C. Bayer, D. A. Baum. Phylogeny of the core Malvales: evidence from *ndhF* sequence data. *American Journal of Botany* 86: 1474-1486.

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### **Carol Fialkowski**

Approaches to Urban Ecosystems Education in Chicago: Perspectives and Processes from an Environmental Educator. The Eighth Cary Conference Program.

### **Robin Foster**

and S. Hubbell, S. T. O'Brien, K. E. Harms, R. Condit, B. Wechsler, S. J. Wright, S. Loo de Lao. Light-gap disturbances, recruitment limitation and tree diversity in a Neotropical forest. *Science* 283: 554-557.

and J. A. Comiskey, F. Dallmeier. Forest structure and diversity in managed and unmanaged rainforest of Beni, Bolivia. In *Forest Biodiversity in North, Central, and South America and the Caribbean: Research and Monitoring*, ed. F. Dallmeier and J. A. Comiskey, MAB Series Vol. 21. Paris: UNESCO and New York: Parthenon Publishing Group.

and P. M. Forget, K. Kitajima. Pre- and post-dispersal seed predation in *Tachigali versicolor* (Caesalpiniaceae): effects of timing of fruiting and variation among trees. *Journal of Tropical Ecology* 15: 61-81.

and H. Beltran, A. Galan de Mera. Nuevas adiciones a la flora del Peru. *Candollea* 54: 57-64.

and R. Condit, P. S. Ashton, N. Manokaran, J. V. LaFrankie, S. P. Hubbell. Dynamics of the forest communities at Pasoh and Barro Colorado: comparing two 50 ha plots. *Proceedings of the Royal Society of London: Biological Sciences* 354: 1739-1748.

### **Debra Moskovits**

and J. Shopland. Satellites work for nature in the metropolis: A case study of Chicago Wilderness. Chicago: Chicago Wilderness.

### **Thomas S. Schulenberg**

and J. Fjeldså, S. M. Goodman, B. Slikas. Molecular evidence for relationships of Malagasy birds. In *Proceedings of the 22<sup>nd</sup> International Ornithological Congress*, ed. N. J. Adams and R. H. Slotow, 3084-3094. Johannesburg: BirdLife South Africa.

and A. Cibois, E. Pasquet. Molecular systematics of the Malagasy babblers (Passeriformes: Timaliidae) and warblers (Passeriformes: Sylviidae), based on cytochrome b and 16S rRNA sequences. *Molecular Phylogenetics and Evolution* 13: 581-595.

### **Jennifer Shopland**

and D. Moskovits. Satellites work for nature in the metropolis: A case study of Chicago Wilderness. Chicago: Chicago Wilderness.

**Douglas F. Stotz**

and G. M. Mace, A. Balmford, J. R. Ginsberg, eds. Endemism and species turnover with elevation in montane avifaunas in the Neotropics: Implications for conservation. In *Conservation in a Changing World*, 161-180. Cambridge: Cambridge University Press.

Taxonomy and the AOU Checklist: Reasons for changes in the seventh edition. *Meadowlark* 7: 121-126.

and D. B. Johnson. Fifth report of the Illinois ornithological records committee. *Meadowlark* 8: 53-62.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

**Lutz Bachmann**

and G. C. S. Kuhn, S. Bollgoenn, D. Sperlich. Characterization of a species-specific satellite DNA of *Drosophila buzzatii*. *Journal of Zoological Systematics and Evolutionary Research* 37: 109-112.

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**MUSEUM AND PUBLIC SERVICE, 1999**  
(EDITORSHIPS, COMMITTEES, ETC.)  
(excluding *ad hoc* reviews, committee alternates)

**DEPARTMENT OF ANTHROPOLOGY**

**Bennet Bronson**

Member, Science Advisory Council; Member, Collections Committee; Member, Search Committee, Anthropology Department; Member, Permanent Exhibits Strategic Planning Committee; Chair, Asian Anthropology Search Committee; Museum Representative, Chicago Sister Cities Committee; Museum Representative, Chicago Golden Pavilion Committee; Associate Editor, *ACRO Update*, Asian Ceramics Research Organization.

**Winifred Creamer**

Executive Director, Anthropology Museum, Northern Illinois Univ. Program; Chair, 2000 Annual Meeting, Society for American Archaeology; Assistant Director, Univ. Honors Program, Northern Illinois Univ.

**Gary M. Feinman**

Chair, Department of Anthropology; Member, Administrative Docket; Member, Academic Affairs Management Group; Member, Academic Affairs Vice President Search Committee; Member, Boyd Postdoc Search Committee (Anthropology-CCUC); Editor, *Latin American Antiquity*, *Journal of Archaeological Research*; Associate Editor, *Journal of World-Systems Research*; Series Editor, *Fundamental Issues in Archaeology*; Advisory Editor, *Cross-Cultural Research*; Advisory Board, HRAF Collection of Archaeology/Encyclopedia of Prehistory; Editorial Advisory Committee, *Latin American Antiquity*; Member, Committee on the Americas/Comité de las Américas, Society for American Archaeology; Member, Publications Committee, Society for American Archaeology; Member, Centennial Advisory Committee, American Anthropological Association; Member, Segunda Mesa Redonda de Monte Albán Planning Committee; Chair, Archaeology Division Nominations Committee, American Anthropological Association; Member, Graduate Studies Committee, Univ. of Illinois at Chicago; Member, Cultural Anthropology Search Committee, Univ. of Illinois at Chicago; MS. Referee, Prentice-Hall (1); Grant referee, NSF (2), NGS (2), NEH (2), Burkhardt Residential Fellowship (1), Wenner-Gren (5), MacArthur Fellows Program (2); Outside tenure/promotion review (Univ. of Colorado-Denver, Arizona State Univ., Northern Illinois Univ.).

**Jonathan Haas**

Member, Trustees Advisory Group on Collections; Curatorial Liaison, Collections Committee; Member, Marketing Working Group; Member, Tenure Appeal Committee for Academic Affairs; Member, Information Services Search Committee; Chair, Americas Curator Search Committee; Member, East Asian Curator Search Committee; Member, Anthropology Registrar Search Committee; Chair, Deaccession Committee; Chair, Terrace Planning Committee; Curatorial Liaison, Collections Management Group; Member, Collections Strategic Planning Committee; Member, Education Committee; Hosted Tribal Representatives from the Southern Cheyenne; Northern Cheyenne; Pawnee; Cayuga Nation; Mendocino Intertribal Committee (Pomo); Kiowa; Hopi Tribe, Navajo Tribe; White Mountain Apache; Yupik; Stockbridge Munsee; Potowatomi; Zuni; Hoonah; Crow; and Hoopa; Panel Member, Systematic Anthropological Collections Review Panel; Member and Chair, Museum Assessment Program Surveyor; Museum Accreditation Visiting Committee (Chaired Accreditation Review of Pueblo Grande Museum); Member, Advisory Board, Human Relations Area Files, Collection of Archaeology; Member, Assistant Professor in North American Archaeology Search Committee, Univ. of Illinois at Chicago; Advisory Group on Native North America for Encyclopedia Britannica.

**Chuimei Ho**

Member, Academic Team, Reception for Prince and Princess Takamado; Coordinator, Gerontological Programs, Anthropology and Education; Editor, *ACRO Update*, Asian Ceramics Research

Organization; Co-editor, Fujian Ceramic Proceedings, Anthropology; Co-editor, Asian Ceramic Conference, Anthropology.

**Chapurukha M. Kusimba**

Member, Asian Anthropology Curator Search Committee; Member, Fellowship Committee; Alternate Member, Science Advisory Council; Member, Scholarship Committee; Member, Editorial Advisory Board, *Discovering Archaeology*; Member, Graduate Student Committee, Univ. of Illinois at Chicago.

**Stephen E. Nash**

Member, Education Committee, Anthropology Department; Chair, Registrar Search Committee, Anthropology Department.

**Linda Nicholas**

Editorial Assistant, *Latin American Antiquity*, *Journal of Archaeological Research*, *Fundamental Issues in Archaeology*.

**James L. Phillips**

Member, Scientific Panel, Paleorient; Director, Graduate Studies Anthropology, Univ. of Illinois at Chicago; Member, Scientific Group, Technologie et Prehistoire, URA28-CNRS, Paris, France.

**Anna C. Roosevelt**

Member, Space Committee; Consulting Editor, *Latin American Antiquity*; Board of Directors, *Science News*; Member, Midwest Council, American Academy of Arts and Sciences; Consultant, MacArthur Foundation; Member, Advisory Committee, Human Relations Area Files; Member, Founders Board, Rainforest Alliance; Charette member, Jamestown Foundation/Society for the Preservation of Virginia Antiquities, Jamestown, Virginia; Consultant, Doli Lodge Museum, Bayanga, Central African Republic; Grant Reviewer, National Science Foundation, National Geographic Society, Wenher-Gren Foundation; Organizer, Central States Anthropology Annual Meeting; MS Reveiwer, *Journal of Archaeological Science*, University of Florida Press, *American Antiquity*, *Antiquity*.

**Catherine Sease**

Member, Trustees Advisory Group for Collections; Member, Academic Affairs Management Group; Member, Facilities Advisory Committee; Chair, Pest Control Sub-Committee; Member, Health and Safety Committee; Elected Representative, Academic Affairs Professional Staff; Chair, Conservation and Heritage Management Committee, Archaeological Institute of America; Member, Bylaws Committee, American Institute for Conservation; Member, Editorial Board, American Institute for Conservation; Book Review Editor, *Journal of the American Institute for Conservation*; Member, Executive Committee, Chicago Society of the Archaeological Institute of America; Grant Reviewer, Getty Grant Program, National Center for Preservaton, Technology & Training, Institute of Museum and Library Services, National Endowment for the Humanities.

**Anne P. Underhill**

Member, Americas Curator Search Committee; Member, Editorial Committee, *Journal of East Asian Archaeology*; Member, Advisory Board, Outline of Prehistoric Traditions and *Encyclopedia of Prehistory*; Grant Reviewer, National Science Foundation.

**Alaka Wali**

Acting Chair, Department of Anthropology (until August 1999); Member, Academic Affairs Management Group; Member, Education Strategic Planning Committee; Member Review Committee for targeted curatorial appointments; Member, Asian Curator Search Committee, Dept. of Anthropology; Member, Boyd Postdoc Search Committee (Anthropology-CCUC); Member, Nominations and Elections Committee, Society for Applied Anthropology (elected position); Publications Committee, Society for Applied Anthropology; Member, Awards Committee of the American Anthropological Association (appointed by the President); Member, U.S. National Committee of the International Union of Anthropological and Ethnological Sciences Planning Committee; Member, Advisory Board, Program on Dialogue Between Science, Religion and Ethics of the American Association for the Advancement of

Science; Review Panel, National Security Education Program of the Academy of Educational Development; Member, Core Planning Group, Qualitative Research on Infant Mortality Initiative, Centers for Disease Control and Prevention; Graduate Committee, Department of Anthropology, Univ. of Illinois at Chicago; Member, Chair Search Committee, Dept. of Anthropology, Univ. of Illinois at Chicago; Reviewer, *Human Organization*, Society of Applied Anthropology.

**Robert L. Welsch**

Organizer, Special Session in Honor of Philip J. C. Dark, Pacific Arts Association Annual Conference; Organizer, Pacific Arts Association Annual Conference; Treasurer, Pacific Arts Association.

**DEPARTMENT OF BOTANY**

**Fred R. Barrie**

Co-organizer, Nomenclature Session, XVI International Botanical Congress.

**William C. Burger**

Scientific Editor, *Fieldiana*; Organizer, Noon Seminar Series; Member, Systematic Botanist Search Committee.

**John J. Engel**

Chairman, Publications Committee; Member, Science Advisory Council; Member, Systematic Botanist Search Committee.

**Robin B. Foster**

(see Environmental and Conservation Programs)

**Katherine A. Glew**

Member-at-Large, Executive Committee, American Bryological and Lichenological Society (ABLS); Conservation Committee, American Bryological and Lichenological Society (ABLS).

**Susan M. Hamnik**

Member, Kaffeeklatsch Committee; Member, Safety Committee; Co-coordinator of local program, Soil Ecology Society Meeting.

**Patrick R. Leacock**

Member, Chicago Wilderness Science Team; Member, Illinois Rapid Assessment Program (IRAP) Team; Member, Illinois "Urban Watch" Protocol Development Team; Scientific Advisor, Illinois Mycological Association; Contact for mushroom cases, Illinois Poison Control Center; Member, Voucher Collection Committee, North American Mycological Association.

**François M. Lutzoni**

Member, Management Committee for the High-Performance Computing Cluster; Botany representative, Scholarship Committee; Member, Pritzker Laboratory Management Committee; Member, Systematic Botanist Search Committee; Associate Editor, *Canadian Journal of Botany*; Editorial Board, *Systematic Biology*; Editorial Board, *Molecular Phylogenetics and Evolution*; Field Museum liaison for the UIC-FMNH Collaboration for Teaching and Graduate Training Activities; Deputy Treasurer, International Association for Lichenology; Field Museum representative, UIC Search Committee for Evolutionary Geneticist/Ecologist; Liaison, Pritzker Lab of Molecular Systematics and Evolution Management Committee and HYSEQ.

**Gregory M. Mueller**

Chair, Department of Botany; Member, Academic Affairs Management Group; Member, Environment Team, Strategic Planning Initiative; Member, Temporary Exhibits Steering Committee; Member, Academic Affairs Vice President Search Committee; Chair, Systematic Botanist Search Committee; Member, Web Advisory Committee; Member, Boyd Postdoc Search Committee (Zoology-Botany);

Member, Boyd Postdoc Search Committee (Anthropology-CCUC); Member, Field Museum-Monsanto Environmental Education Initiative Steering Committee; Member, Planning Committee "It's Wild in Chicago" Festival; Member, Program Committee, XVI International Botanical Congress; Conference co-organizer, Soil Ecology Society Meeting; Member, Graduate Student Admissions Committee, Committee on Evolutionary Biology, Univ. of Chicago; Chair, Chicago Wilderness Proposal Committee; International Coordinator, National Fungal Inventory, National Institute of Biodiversity (INBio), Costa Rica; Member (USA representative), Fungi Specialist Group, The World Conservation Union (IUCN) Species Survival Commission; Chair, Collections Committee, American Society of Plant Taxonomists; Member, Editorial Board, *Mycotaxon*; Member, Illinois Rapid Assessment Program (IRAP) Team; Member, Illinois "UrbanWatch" Protocol Development Team; Contact for mushroom cases, Illinois Poison Control Center; Scientific Advisor, Illinois Mycological Association; Chair, Voucher Collection Committee, North American Mycological Association.

**Kathleen M. Pryer**

Member, Paleobotany Search Committee; Member, Systematic Botanist Search Committee; Member, Pritzker Laboratory Management Committee; Member, High-Performance Computing Cluster Management Committee; Associate Editor, *Canadian Journal of Botany*; Member, Selection Committee for best Botanical Society of America Pteridological Poster; Member, Green Plant Phylogeny Research Coordination Group; External reviewer, Ohio Univ. Research Committee.

**John Paul Schmit**

Member, Biodiversity Committee, Mycological Society of America.

**Djaja Djandoel Soejarto**

Editor, *Journal of Ethnopharmacology*; Contributing Editor, *International Journal of Pharmacognosy (Pharmaceutical Biology)*; Editorial Board Member, *Parodiana* (Buenos Aires, Argentina); Editorial Board Member, *Ethnobotany* (Lucknow, India); Editorial Board Member, *Actualidades Biologicas* (Medellin, Colombia); Editorial Board Member, *Advances in Natural Sciences* (Hanoi, Vietnam); Reviewer of manuscripts by requests: *Novon*, *Journal of Ethnopharmacology*, *Economic Botany*, *Advances in Natural Sciences*, *Actualidades Biologicas*.

**Jennifer Steinbachs**

Member, Scientific Database Programmer Search Committee; Member, Univ. of Chicago Bioinformatics Curriculum Committee; Referee, International Parallel and Distributed Processing Symposium 2000.

**DEPARTMENT OF GEOLOGY**

**John R. Bolt**

Chair, Zoology Promotions Review Committee; Chair, Financial Oversight Committee, Society of Vertebrate Paleontology; Member, Management Search Committee, Society of Vertebrate Paleontology; Member, Endowment Committee, Society of Systematic Biologists.

**Chris Brochu**

Associate Editor, *Journal of Vertebrate Paleontology*.

**Gregory A. Buckley**

Member, Personnel Committee.

**Peter R. Crane**

Vice President, Academic Affairs and Director (until 8/15/99); Director, Center for Evolutionary and Environmental Biology; Steering Committee Member and Chair, Scientific Program Committee, XVI International Botanical Congress, St. Louis; Chair, External Review of Programs in Botanical Science, New York Botanical Garden; Reader, External Review Committee, Research and Collections, National Museum of Natural History, Smithsonian Institution; President, Paleontological Society; Editor, *International Journal of Plant Sciences*; Editorial Board, *Perspectives in Plant Ecology, Evolution and*

*Systematics*; Member, Editorial Board, *Plant Systematics and Evolution*; Member, Board of Trustees, Latin School, Chicago; Member, Chicago Wilderness Steering Committee.

**Darin Croft**

Committee on Paleocological Studies, Primero Congreso de Evolución Neotropical del Cenozoico.

**John J. Flynn**

Chair, Department of Geology; Member, Academic Affairs Management Group; Staff Chair, Research Strategic Planning Committee; Associate Chair, Committee on Evolutionary Biology, Univ. of Chicago; Chair, Executive Committee, NSF Biodiversity Training Grant, Univ. of Chicago; President, Society of Vertebrate Paleontology; Research Associate, American Museum of Natural History; Organizing Committee and Vertebrate Paleontology topic coordinator, Paleontology in the 21<sup>st</sup> Century Project; Member, Departmental Review Committee and Chair Search Committee, Department of Organismal Biology and Anatomy, Univ. of Chicago; Member, External Review Committee, Univ. of Colorado Museum; Workshop Participant, "Geobiology and the Earth Sciences in the Next Decade," Washington DC, sponsored by the National Science Foundation.

**Lance Grande**

Chair, Scholarship Committee; Member, Publications Committee; Editorial Board Member, *Revista*; Associate Editor, *Journal of Vertebrate Paleontology*; Member, Romer Prize Committee, Society of Vertebrate Paleontology.

**Scott Lidgard**

Member, Science Advisory Council; Member, Phanerozoic Marine Diversity Working Group, National Center for Ecological Analysis and Synthesis; Member, System Content and Scientific Questions Working Group for Ocean Biogeographical Information Systems.

**Olivier Rieppel**

Member-at-large, Science Advisory Council; Outside Member, Herpetology Curator Search Committee; Associate Editor, *Zoological Journal of the Linnean Society*; Associate Editor, *Amphibia and Reptilia*; Editorial Board, *Bulletin de la Société Géologique de France*; Editorial Board, *Development and Evolution*; Romer Prize Committee, Society of Vertebrate Paleontology; Honorary Membership Committee, Society of Vertebrate Paleontology.

**William F. Simpson**

Editor, *Preparators' Directory*, Society of Vertebrate Paleontology; Consultant, Society of Vertebrate Paleontology "Materials and Methods" Webpage.

**Meenakshi Wadhwa**

Member, Scholarship Committee; Invited Member, NASA Mars Exploration Program Advisory Group; Panel Chief, NASA Planetary Instrument Definition and Development Program (PIDDP) Surface Instrumentation Review Panel; Member, NASA Cosmochemistry Program Review Panel (Group Chief, Geochemistry Group); Member, NASA Cosmochemistry Management Operations Working Group; Member, Meteorite Nomenclature Committee; Member, Program Committee, Lunar and Planetary Science Conference; Member, NASA-NSF-Smithsonian Meteorite Working Group.

**Peter J. Wagner**

Chair, Paleobotany Search Committee; Organizer, 2000 Spring Symposium.

**DEPARTMENT OF ZOOLOGY**

**J. William O. Ballard**

Member, Pritzker Laboratory Management Committee; Associate Editor, *Journal of Molecular Evolution*; Member, Hinds Committee; Member, Entomological Society of America; Member, Australia Entomological Society; Member, Royal Entomological Society; Reviewer, *Genetics*; Reviewer, *Journal of*

*Molecular Biology and Evolution*; Reviewer, *Evolution*; Reviewer for the National Science Foundation; Reviewer for Australian Government Grants.

**John M. Bates**

Member, Collections Committee; Member, Animal Care and Use Committee; Member, Pritzker Lab Management Committee; Member, Environmental Strategic Planning Committee; Editorial Board, *Systematic Biology*, American Ornithologists' Union; Member, Long Range Planning Committee, American Ornithologists' Union; Member, Cooper Ornithological Society Painton Award Committee.

**Rüdiger Bieler**

Chair, Department of Zoology; Member, Boyd Postdoc Search Committee (Zoology-Botany); Group Leader, Trustees Advisory Group Long-range Planning – Collections and Collections/Research; Member, Academic Affairs Management Group; Member, Vice President Academic Affairs Search Committee; Vice President, Immediate Past President on Council, *Unitas Malacologica* (International Society of Malacology); Past President on Council, American Malacological Society; President, Institute of Malacology; North American Editor, *Zoological Journal of the Linnean Society*; Editor-in-Chief, *Monographs of Marine Mollusca*; Editorial Board Member, *Malacologia – International Journal of Malacology*, *Malacological Review*, *The Nautilus*, *The Festivus*, *Iberus*, and others; Trustee and Chairman, Collections and Research Committee, Board of Directors, Delaware Museum of Natural History; Member, Committee on Evolutionary Biology, Univ. of Chicago.

**Barry Chernoff**

Member, Science Advisory Council; Member, TAG Footprint Committee; Member, Department of Zoology Space Committee; 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 Directors, Neotropical Ichthyological Association; Governing Board, Fishes of the Western North Atlantic; Graduate Student Advisory Committee, Univ. of Chicago.

**Jack Fooden**

Consulting Editor, *American Journal of Primatology*; Editorial Board, *International Journal of Primatology*.

**Paul Z. Goldstein**

Elected Fellow, Willi Hennig Society.

**Shannon J. Hackett**

Radiation Safety Officer, The Field Museum; Member, Pritzker Laboratory Management Committee; Member, Zoology/Insects Appointments Committee; Member, Student Awards Committee, American Ornithologists' Union; Member, NSF Doctoral Dissertation Improvement Grant panel.

**Lawrence R. Heaney**

Head, Division of Mammals; Member, Herpetology and East Asian Anthropology Search Committees; Member, Kaffee Klatsch Committee; Chair, Promotion and Tenure Appeals Committee; Member, Promotions Committee, Dept. Geology; Member, Temporary Exhibits Strategic Planning Committee; Member, Facilities Advisory Group; Member, Chiropteran Advisory Group, American Association of Zoological Parks and Aquaria; Member, Science Advisory Board, Lube Foundation; Board of Directors, Member of Merriam Award Committee and Checklist Committee, American Society of Mammalogists; Board of Trustees and Editorial Board, Wildlife Conservation Society of the Philippines; Consultant on Philippine issues, Conservation International; reviewer, Univ. of Chicago Press, Univ. of California Press; Promotions Review for Smithsonian Institution.

**Robert F. Inger**

Chairman, Science Advisory Committee, and Member, Board of Trustees, Illinois Chapter, The Nature Conservancy; Member, Illinois State Board of Natural Resources & Conservation; Associate Editor, *Zoological Research* (Kunming, China); Editorial Board, *Raffles Bulletin of Zoology* (Singapore).



**Mary Milus Johnson**

Member, Safety Committee; Member, Kaffee Klatsch Committee.

**Alfred F. Newton**

Chair, Zoology Promotions Committee; Member, Publications Committee; Member, Zoology/Insect Search Subcommittee; Editorial Board, *Belgian Journal of Entomology*; Member, Selection Committee, Lacordaire Prize of Coleopterists Society; Proposal reviewer, NSF and National Geographic Society.

**Bruce D. Patterson**

Member, Zoology Space Committee; Member, Tours Advisory Council; Member, Zoology Search Committee; Member, Zoology Promotions and Review Committee; Member, Botany Promotions and Review Committee; Member, Permanent Exhibit Strategic Planning Committee; Vice President and Board of Directors, American Society of Mammalogists (also Member, Planning and Finance Committee); Member, Grinnell Award for Teaching Excellence; Member, Checklist Committee; Chair, Latin American Field Research Award Committee; Chair, Ad hoc New Awards Committee); Member, Editorial Boards, *Mastozoología Neotropical* and *Publicaciones Especiales, Mastozoología Neotropical*, and *Diversity and Distributions*; Member, New World Marsupials Specialist Group, International Union for the Conservation of Nature/Species Survival Plan; Member, Chancellor's Advisory Committee, Univ. of Puerto Rico.

**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; Member, Partners in Amphibian and Reptile Conservation.

**Mary Anne Rogers**

Elected Representative, Academic Affairs Professional Staff; Member, Recycling/Environmental Awareness Committee; Member, Facility Advisory Group Recycling Subcommittee; Member, Strategic Planning Collections Staff Team; Member, Collections and Resources Committee, American Society of Ichthyologists and Herpetologists.

**Petra Sierwald**

Editorship, Managing Editor, *The Journal of Arachnology*; Editorial board, *The Southeastern Naturalist*; Member: Executive Committee, American Arachnological Society; Scientific Council, African Society of Arachnology.

**William T. Stanley**

Member, Academic Affairs Management Group; Member, Recycling/Environmental Awareness Committee; Member, Facilities Advisory Group; Member, Education Strategic Planning Committee; Member, Resolution Committee and Systematic Collections Committee, American Society of Mammalogists; Milwaukee Public Museum Consultancy on Specimen Conservation.

**Daniel A. Summers**

Chair, Personnel Committee; National Supervisor, Science Olympiad; Pest monitoring survey, Adler Planetarium.

**Margaret K. Thayer**

Adjunct Member, Zoology-Insect Search Committee; Supervisor-trainer, Zoology Dept. computerized slide-making system; North American Executive Editor, *Annales Zoologici*; Editorial Board, *Dugesiana*; NSF Advisory Panel Member, Systematics – Partnerships in Enhancing Expertise in Taxonomy (PEET); Proposal Reviewer, NSERC [Canada], and NSF.

**Janet R. Voight**

Member-at-Large and Vice Chair, Science Advisory Council; Member and Acting Chair, Institutional Animal Care and Use Committee; Outside Member, Department of Botany Tenure and Review

Committee; Member, Department of Zoology – Insect Search Committee; Member, Zoology - Herpetology Search Committee; Head, Division of Invertebrates, Department of Zoology; Invited participant, NSF RIDGE 2000 Planning Workshop; Solicited Contributor, NSF Decadal Planning for Ocean Sciences; Participant, Institute for Pacific Ocean Science and Technology (British Columbia) workshop concerning the recognition of hydrothermal vents at Endeavour Segment, Juan de Fuca Ridge as a pilot Marine Protected Area; Faculty Member, Committee on Evolutionary Biology, Division of Biological Sciences, Univ. of Chicago.

**Harold K. Voris**

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

**Jeffrey Walker**

Editorial Board, *Systematic Biology*; Reviewer for *Copeia*, *Systematic Biology*, *Journal of Experimental Biology*, *Cymbium*, National Science Foundation.

**Mark M. Westneat**

Chair, Science Advisory Council; Member, Academic Affairs Management Group; Chair, Vice President Academic Affairs Search Committee; Chair of Institutional Animal Care and Use Committee; Associate Editor, *Systematic Biology*; Nominating Committee, Society of Integrative and Comparative Biology.

**David Willard**

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

**CENTER FOR CULTURAL UNDERSTANDING AND CHANGE**

**Jacqueline Gray**

Reviewer, Institute for Museum and Library Sciences; Member, National Museum Field Committee for the Museums & Community Initiative, American Association of Museums.

**Alaka Wali**

(see Department of Anthropology)

**ENVIRONMENTAL AND CONSERVATION PROGRAMS**

**Carol Fialkowski**

Member, Nancy Ryerson Ranney Fellowship Committee, Friends of Ryerson Woods; Advisory Committee, Illinois Environmental Education Advancement Consortium; Chair, Steering Committee, Environmental Literacy for Illinois; Member, National Commission on Urban and Multicultural Environmental Education; Review Committee, Informal Science Education Grants, National Science Foundation; Advisory Board, Project Wild in the City; National Review Panel, Blue Ribbon School Program, U.S. Department of Education; Chair, Education & Communication Team, Chicago Wilderness; Advisory Board, The Biodiversity Project; Project Leader, Environmental & Outdoor Education Initiative, Chicago Park District; Advisory Council, Biodiversity Exhibit and Windows on the Wild, World Wildlife Fund; Steering Committee, Cary Symposium on Urban Ecosystems, Institute for Ecosystem Studies; Advisory Panel, Informal Biodiversity Education, California Academy of Sciences; Co-Chair, National Biodiversity Educator's Network; Scientific Literary Advisory Board, Illinois State Board of Education; Co-Chair and Steering Committee, Cowles Symposium, Indiana Dunes National Lakeshore.

**Robin Foster**

Member, Commission for Flora Neotropica; Scientific Board, International Center for Tropical Ecology; Trustee and Research Associate, Institute for Botanical Exploration; Consultant, Conservation International.

**Debra Moskovits**

Member, Academic Affairs Management Group; Member, Academic Affairs Vice President Search Committee; Member, Administrative Docket; External Member, Review Committee, Museum of Natural History at the Univ. of Iowa.

**Douglas F. Stotz**

Governing Board, Biological Sciences Collegiate Division, Univ. of Chicago; Advisory Committee, The Nature Conservancy Wings over America Program; Steering Committee, Conservation Training Consortium; Univ. Teaching Coordinator, Field Museum with local universities; Endangered Species Technical Advisory Committee for Birds, Illinois; Bird Conservation Network Bird Monitoring Committee; South American Checklist Committee, American Ornithologists' Union; Checklist Committee, American Ornithologists' Union; Illinois Ornithological Records Committee; Board of Directors, Illinois Ornithological Society; Burnham Park Framework Steering Committee.

**Thomas S. Schulenberg**

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

**Sophia B. Twichell**

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

## PROFESSIONAL TRAVEL, 1999

### DEPARTMENT OF ANTHROPOLOGY

#### **Bennet Bronson**

Exhibit Development: Japan and Tahiti, "Pearls" Exhibit research and contacts.

Tours: Britain, Field Museum Tour.

#### **Winifred Creamer**

Field Work: Lima, Peru; Peruvian north coast.

Tours: Western Turkey and Troy, Northern Illinois Univ. Tour.

#### **Gary M. Feinman**

Field Work: Shandong, China, archaeological survey; Oaxaca, Mexico, excavation.

Seminars, Symposia, etc.: San Diego, discussant, Archaeology of Complex Societies, 4<sup>th</sup> Biennial Conference.

#### **Jonathan Haas**

Field Work: Coast of Peru; northern New Mexico.

Research: Santa Fe, New Mexico. Collecting: San Juan Pueblo and Cochiti Pueblo, New Mexico.

Seminars, Symposia, etc.: Chapel Hill, North Carolina, workshop on modeling the emergence of complex polities; Santa Fe, New Mexico, workshop for Fellows-at-large, Santa Fe Institute.

Tours: Egypt, Field Museum Tour.

Other: Concho, Oklahoma, repatriation consultation with the Cheyenne and Arapaho Tribes of Oklahoma; Pawnee, Oklahoma, repatriation consultation with the Pawnee Tribe; Phoenix, Arizona, accreditation review for AAM.

#### **Chuimei Ho**

Field Work: Vietnam.

Seminars, Symposia, etc.: Brooklyn, NY, invited presentation, Asian Art Council Roundtable at Brooklyn Museum; Denver, CO, invited presentation, Rise of The Named Artist seminar, Denver Art Museum.

Tours: Vietnam.

Other: Brooklyn, Columbus, Yale Univ. Press, publication development.

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

Field Work: Tsavo and Mtwapa, Kenya; Peru.

Research: Philadelphia, PA, University of Pennsylvania Museum.

Seminars, Symposia, etc.: Calgary, Canada, Chagmool Conference; San Diego, CA, Complex Society Archaeology Biennial Meeting; New Jersey, Rutgers University, Anthropology Seminar Series..

#### **Sibel Barut Kusimba**

Field Work: Tsavo, Kenya.

#### **Holly Lundberg**

Field Work: Tell Kurdu, Hatay, Turkey.

Seminars, Symposia, etc.: Indianapolis, Indiana, invited participant in action lab workshop, "Adapting Condition Reporting to Changing Times," Association of Midwest Museums Annual Conference.

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

Seminars, Symposia, etc.: Indianapolis, Indiana, Association of Midwest Museums; Tucson, Arizona, Laboratory of Tree-Ring Research, Univ. of Arizona; Andover, MA, Peabody Museum, Phillips Academy.

**Linda Nicholas**

Field Work: Shandong, China, archaeological survey; Oaxaca, Mexico, excavation.

**James L. Phillips**

Field Work: Israel and Palestine, archaeological survey of the Judean Desert.

Seminars, Symposia, etc.: Jerusalem, Al Quds Univ.; American Research Center in Egypt; Cairo Univ.; Harvard Univ.; Hebrew Univ.

**Anna C. Roosevelt**

Field Work: Bayanga, Central African Republic, World Wildlife Fund, Dzanga-Sangha Reserve; Baja California Sur, archaeological survey. Site tours: Sterkfontein Cave, Cave of Hearths, Buffalo Cave, Gladysvale Rockshelter, Drimolen, Makapansgat, South Africa.

Seminars, Symposia, etc.: Cabo San Lucas, Mexico, invited presentation, International Wenner-Gren Conference; Capetown, South Africa, symposium paper, World Archaeological Congress; San Francisco, invited presentation, Fourth Wattis Foundation Symposium, California Academy of Sciences; Sanibel Island, Florida, invited presentation, Society of Women Geographers Annual Meeting.

**Catherine Sease**

Seminars, Symposia, etc.: St. Louis, MO, American Institute for Conservation.

Exhibit Development: Jerusalem, consultant, Israel Antiquities Authority; Consultant, Univ. of Minnesota; Peoria, IL, African American Hall of Fame Museum.

**Anne P. Underhill**

Field Work: Shandong, China, archaeological excavation.

**Alaka Wali**

Research: New York City.

Seminars, Symposia, etc.: Atlanta, GA, invited paper presentation, Conference on Findings of Qualitative Research on Pre-term Delivery and Reproductive Health; Tucson, AZ, invited presentation, Annual Meetings of the Society for Applied Anthropology; Washington, DC, Workshop on the National Neighborhoods Indicators Project at the Urban Institute.

Other: Washington, DC, review panel for the National Security Education Program, AAAS Dialogue on Science, Religion and Ethics, U.S. National Committee of the IUAES.

**Robert L. Welsch**

Field Work: Aitape, Papua New Guinea; Sydney, Australia, Australian Museum; Adelaide, Australia, South Australian Museum.

Seminars, Symposia, etc.: Oxford, UK, Pitt Rivers Museum; Cambridge Univ.

**DEPARTMENT OF BOTANY**

**William S. Alverson**

(see Environmental and Conservation Programs)

**Fred R. Barrie**

Research: Washington, DC, Smithsonian.

Seminars, Symposia, etc.: St. Louis, MO, co-organizer, Nomenclature Session, XVI International Botanical Congress.

**William C. Burger**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Jutta Buschbom**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Michael O. Dillon**

Field Work: Antofagasta, Chile; Trujillo, Peru.

**Eve A. Emshwiller**

Field Work: Department of Cusco, Peru.

Research: Ithaca, NY, Bailey Hortorium and College of Veterinary Medicine, Cornell Univ.

Seminars, Symposia, etc.: St. Louis, MO, invited presentation, XVI International Botanical Congress; Lima, Peru, Universidad Nacional Mayor de San Marcos (UNMSM); Cusco, Peru, the Granja K'ayra (agricultural college) of the Universidad Nacional San Antonio Abad del Cusco (UNSAAC); Cusco, Peru, the Cusco office of the Instituto Nacional de Investigación Agropecuaria (INIA).

**John J. Engel**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Fernando Fernández**

Field Work: Costa Rica, Jamaica, Venezuela.

Research: Costa Rica, INBio; Venezuela, Universidad Simon Bolivar and Rancho grande Research Station.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Caracas, Venezuela, 3<sup>rd</sup> Latin American Mycological Congress.

**Robin B. Foster**

(see Environmental and Conservation Programs)

**Katherine A. Glew**

Field Work: Poland, Gdansk Univ.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

Other: Poland, invited paper, Department of Biology, Univ. of Gdansk.

**Susan M. Hamnik**

Field Work: Zamora y Jacona, Michoacan, Mexico.

**Nancy Hensold**

Field Work: Zamora y Jacona, Michoacan, Mexico.

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

**Sabine M. Huhndorf**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Patrick R. Leacock**

Field Work: Illinois, Indiana, Michigan.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress and Mycological Society of America Annual Meeting; Cape Girardeau, MO, North American Mycological Association Annual Foray; Wisconsin, A. H. Smith Great Lakes States Mycological Foray and Annual Meeting.

**Sarah T. Long**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**François M. Lutzoni**

Field Work: Poland, Tatra and Sudeten mountains; Northern Québec, Canada, Subarctic Biological Station, McGill Univ.

Research: Poland, Univ. of Gdansk.

Seminars, Symposia, etc.: St. Louis, MO, co-organizer, XVI International Botanical Congress General Symposium; Madison, WI, Society of Systematic Biologists, Univ. of Wisconsin; Poland, special symposium, Univ. of Gdansk-Field Museum Collaboration, Univ. of Gdansk; St. Louis, MO, invited

organizer of a symposium on the detection of ancestral clonality for the annual meeting of the Mycological Society of America.

**Gary L. Smith-Merrill**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Jolanta Miadlikowska**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Andrew Miller**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Gregory M. Mueller**

Field Work: Costa Rica; Huron Mountains, MI.

Research: San Jose, Costa Rica, Univ. of Costa Rica; Heredia, Costa Rica, National Institute of Biodiversity, Santo Domingo.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Caracas, Venezuela, Latin American Mycological Congress; St. Louis, MO, North American Mycological Society Annual Meeting; Wisconsin, A. H. Smith Great Lakes States Mycological Foray and Annual Meeting; Champaign, Illinois, Association of Community College Biologists Annual Meeting; Costa Rica, workshop, National Institute of Biodiversity; Costa Rica, parataxonomists field course, National Institute of Biodiversity.

**Christine Niezgoda**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Edmonton, Canada, 13<sup>th</sup> Annual Meeting of Society for the Preservation of Natural History Collections (SPNHC).

**Kathleen M. Pryer**

Seminars, Symposia, etc.: St. Louis, MO, symposium co-organizer, XVI International Botanical Congress; Madison, WI, Annual Meeting of the Society of Systematic Biologists, Univ. of Wisconsin; Jena, Germany, German Botanical Society Meetings, Section Biodiversitaet und Evolutionsbiologie; Goettingen, Germany, meeting of the Hennig Society, Hennig XVIII, Phylogeny and Evolution; Xalapa, Veracruz, Mexico, Green Plant Phylogeny Research Coordination Group Workshop on Bryophyte Phylogeny, Instituto de Ecologia; Stockholm Univ., Sweden, Department of Biology (seminar).

**Valérie Reeb**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Jacinto C. Regalado, Jr.**

Field Work: Vietnam, Cuc Phuong National Park.

Research: Vientiane, Laos, Research Institute of Medicinal Plants; Bangkok, Thailand, Royal Forest Herbarium.

Seminars, Symposia, etc.: Bethesda, Maryland, NAPIS Training Workshop; San Jose, Costa Rica, 13<sup>th</sup> Global Biodiversity Forum; St. Louis, MO, XVI International Botanical Congress.

**John Paul Schmit**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Wisconsin, A. H. Smith Great Lakes States Mycological Foray and Annual Meeting.

**Harald Schneider**

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Jena, Germany, German Botanical Society Meetings, Section Biodiversitaet und Evolutionsbiologie; Goettingen, Germany, meeting of the Hennig Society, Hennig XVIII, Phylogeny and Evolution.

**Djaja Djendoel Soejarto**

Field Work: Vientiane Prefecture, Laos; Cuc Phuong National Park, Vietnam; Ha Tinh Province, Vietnam; Hardwood Hammocks, Miami, Florida.

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

Seminars, Symposia, etc.: Vientiane, Laos, Research Institute of Medicinal Plants; Hanoi, Vietnam, National Center for Science and Technology; Santo Domingo National Botanical Garden, Dominican Republic; Abbot Laboratories, Illinois.

**Betty A. Strack**

Field Work: Huron Mountains, MI.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Caracas, Venezuela, Latin American Mycological Congress; Missouri, North American Mycological Society Annual Meeting; Wisconsin, A. H. Smith Great Lakes States Mycological Foray and Annual Meeting; Champaign, Illinois, Association of Community College Biologists Annual Meeting.

**Laura Torres**

Field Work: Zamora y Jacona, Michoacan, Mexico.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress.

**Qiuxin Wu**

Field Work: Yunnan, China, Zi Xi Mountain Nature Preserve, Chu Xong.

Research: Beijing, China, Institute of Microbiology, Chinese Academy of Sciences.

Seminars, Symposia, etc.: St. Louis, MO, co-author on invited presentation, XVI International Botanical Congress; Harbin, China, workshop on mycorrhizae.

**DEPARTMENT OF GEOLOGY****John R. Bolt**

Seminars, Symposia, etc.: Denver, CO, Society of Vertebrate Paleontology meeting.

**Paul Brinkman**

Research: Denver, CO, Colorado Historical Society; Madison, WI, Wisconsin State Historical Society; Franklin, IN, Franklin Johnson County Public Library.

Seminars, Symposia, etc.: Denver, CO, poster presentation, Society of Vertebrate Paleontology meeting.

**Chris Brochu**

Research: Drumheller, Alberta, Tyrrell Museum of Palaeontology; Bozeman, MT, Museum of the Rockies; Pittsburgh, PA, Carnegie Museum; Ottawa, Ontario, Canadian Museum of Nature; New York, American Museum of Natural History.

Seminars, Symposia, etc.: New Haven, CT, Ostrom Symposium on Origin of Birds; Madison, WI, attended and presented paper at the Society of Systematic Biologists/Society for the Study of Evolution; Denver, CO, attended and presented papers, Society of Vertebrate Paleontology and Geological Society of America.

Exhibit Development: New Jersey, group mounting "Sue," Johnson-Atelier.

**Gregory A. Buckley**

Field Work: Madagascar, expedition to collect Cretaceous crocodiles and other vertebrates.

Seminars, Symposia, etc.: Denver, CO, Meeting of the Society of Vertebrate Paleontology.

**Peter R. Crane**

Research: Stockholm, Sweden; London, UK; Washington, D.C.

Seminars, Symposia, etc.: Iowa, Department of Geology, Univ. of Iowa; Cambridge, MA, Department of Organismal Biology, Harvard Univ.; Leeds, UK, Annual Address, Palaeontological Association, Univ.



of Leeds; Oxford, UK, Department of Plant Sciences, Oxford Univ.; St. Louis, MO, XVI International Botanical Congress; Reading, UK, School of Plant Sciences, Univ. of Reading.  
Other: Mexico City, UNAM meetings; Denver, Paleontological Society Council meeting.

**Darin Croft**

Field Work: Lance Creek, Wyoming.

Research: La Paz, Bolivia, Museo Nacional de Historia Natural; La Plata, Argentina, Museo de La Plata; Durham, NC, Dept. of Biological Anthropology and Anatomy, Duke Univ.; Gainesville, FL, Florida State Museum of Natural History.

**Marlene Hill Donnelly**

Seminars, Symposia, etc.: Richland, WA, Guild of Natural Science Illustrators 1999 Annual Conference.

**John J. Flynn**

Field Work: Madagascar; Chile, central Andes.

Seminars, Symposia, etc.: Denver, CO, poster presentation, Society of Vertebrate Paleontology meeting.

**Lance Grande**

Field Work: Green River Formation, Wyoming.

Research: Amherst, MA, Univ. of Massachusetts.

**Scott Lidgard**

Field Work: Washington, DC, Smithsonian Institution Department of Paleobiology.

Seminars, Symposia, etc.: Santa Barbara, CA, Phanerozoic Marine Diversity Workshop, National Center for Ecological Analysis and Synthesis; Washington, DC, Census of Marine Life Workshop on Ocean Biogeographical Information Systems; Denver, CO, Geological Society of America Annual Meeting.

**Matthew H. Nitecki**

Seminars, Symposia, etc.: Prague, The Czech Republic, Eighth International Symposium on the Ordovician System.

**Clarita M. Nuñez**

Other: San Diego, CA, Clean Lab Training, Scripps Inst. of Oceanography, Univ. of California.

**Olivier Rieppel**

Field Work: Nevada.

Research: Beijing, China, Institute of Vertebrate Paleontology and Paleoanthropology; Jerusalem, The Hebrew Univ. of Jerusalem; Sao Paulo, The Univ. of Sao Paulo; Stockholm, The Swedish Museum of Natural History; Stuttgart, Staatliches Museum fuer Naturkunde.

Seminars, Symposia, etc.: Halle/Salle, Germany, Epicontinental Triassic – International Symposium; Edinburgh, UK, 47<sup>th</sup> Symposium on Vertebrate Paleontology and Comparative Anatomy; Copenhagen, 2<sup>nd</sup> Symposium on Secondary Adaptation to Life in Water; Stockholm, seminar, Swedish Museum of Natural History and Univ. of Stockholm; Lund (Sweden), International Symposium on the Evolution of Vertebrates; Brazil, seminar, Department of Zoology, The Univ. of Sao Paulo.

**William F. Simpson**

Field Work: Southern Madagascar

Seminars, Symposia, etc.: Denver, CO, meeting of the Society of Vertebrate Paleontology.

Exhibit Development: New Jersey, group mounting “Sue,” Johnson-Atelier.

Other: Taught vertebrate paleontology laboratory course at the Univ. of Antananarivo, Madagascar.

**William D. Turnbull**

Research: Sydney, Wellington, Univ. of New South Wales, Australia; Kuala Lumpur, Malaysia, Monash Univ.

Seminars, Symposia, etc.: Sydney, Australia, Conference on AustroAsian Vertebrate Evolution, Paleontology and Systematics (CAVEPS) meeting.

**Meenakshi Wadhwa**

Research: St. Louis, MO, Washington Univ.; San Diego, CA, Scripps Institution of Oceanography; Mainz, Germany, Max-Planck-Institute for Chemistry.

Seminars, symposia, etc.: Houston, TX, Johnson Space Center, Lunar and Planetary Science Conference, oral and poster presentations; Tucson, AZ, Univ. of Arizona, Lunar and Planetary Laboratory, invited seminar; San Diego, CA, Univ. of California at San Diego, invited seminar.

**Peter J. Wagner**

Field Work: Death Valley National Park, CA.

Seminars, Symposia, etc.: Henniker, NH, Gordon Research Conference on Origins of Solar Systems; Madison, WI, Society of Systematic Biology/Society for the Study of Evolution meetings; Denver, CO, Society of Vertebrate Paleontology meetings; Denver, CO, Geological Society of America meetings.

**Gina D. Wesley**

Field Work: Madagascar, Death Valley National Park, CA.

Seminars, Symposia, etc.: Denver, CO, Society of Vertebrate Paleontology annual meeting.

**DEPARTMENT OF ZOOLOGY**

**J. William O. Ballard**

Field Work: Australia (Brisbane, Canberra, Coffs Harbor, Richmond); Noumea, New Caledonia; Iowa City, Iowa.

Research: Canberra, Australia, John Curtin School of Medical Research; Brisbane, Australia, Univ. of Queensland; Sydney, Australia, Australian Museum; San Francisco, HySeq; Univ. of California, Riverside; Iowa City, Univ. of Iowa.

Seminars, Symposia, etc.: Madison, Univ. of Wisconsin; Bloomington, Univ. of Indiana.

**John M. Bates**

Research: Louisiana State Univ.; Illinois State Univ.

Seminars, Symposia, etc.: Ithaca, American Ornithologists' Union Annual Meeting; Normal, Illinois State Univ.

**Rüdiger Bieler**

Field Work: Ft. Pierce, Florida, Smithsonian Marine Station; Florida Keys National Marine Sanctuary.

Research: Japan, Tahiti, Tuamotu Archipelago, Iowa, Research for Pearls Exhibit; Florida International Univ., molecular research; various east coast museums, collection studies.

Seminars, Symposia, etc.: Cambridge, UK, International Symposium on the Biology and Evolution of the Bivalvia; Madison, Wisconsin, Evolution Meetings; Ft. Lauderdale, Florida, International Conference on Scientific Aspects of Coral Reef Assessment, Monitoring, and Restoration; Pittsburgh, PA, American Malacological Society Annual Meeting.

Other: Delaware Museum of Natural History, board retreat and long-range planning meetings; Washington, DC, Smithsonian Institution, site visits for space planning; London, UK, Unitas Malacologica Council Meeting.

**Richard W. Blob**

Field Work: Alexander County, Illinois; Union County, Illinois; Alachua County, Florida.

Research: California Academy of Sciences.

Seminars, Symposia, etc.: Denver, Society for Integrative and Comparative Biology; State College, Pennsylvania, American Society of Ichthyologists and Herpetologists; Denver, Society for Vertebrate Paleontology; Athens, Ohio, invited presentation, Ohio Univ.

### **Barry Chernoff**

Field Work: Rio Pastaza River Basin, Ecuador, Peru.

Research: Rio Pastaza, Ecuador, Peru; Sao Paulo, Brazil, Museu Zoologia Universidade São Paulo; Lima, Peru, Museo Nacional Universidad de San Marcos; Quito, Ecuador, Museo de Historia Natural, Universidad Polytecnica.

Seminars, Symposia, etc.: State College, PA, American Society of Ichthyology and Herpetology; Lima, Peru, invited presentation, AquaRAP; Argonne National Laboratory.

Other: Washington, DC and Irvine California, National Academy of Sciences; Washington, DC, Conservation International; St. Louis, Sustainable Aquatic Resources Center.

### **Jack Fooden**

Field Work: Taiwan, Fushan Experimental Forest and Tsochen District.

Research: Inuyama, Japan, Primate Research Institute, Kyoto Univ.; Inuyama, Japan, Japan Monkey Centre; Abiko, Japan, Yamashina Institute for Ornithology, mammal collection; Taipei, Taiwan Museum; Taipei, Institute of Zoology, Academia Sinica; Taipei, National Taiwan Univ., Taipei Zoo; Taichung, Taiwan, National Museum of Natural History; Chichi, Taiwan, Taiwan Endemic Species Research Institute; Tsochen, Taiwan, Tsailiao Fossil Museum; Tsochen, Taiwan, Tainan Hsien Natural History Education Center; New York, American Museum of Natural History; Washington, DC, National Museum of Natural History.

Seminars, Symposia, etc.: Inuyama, Japan, Invited seminar, Primate Research Institute, Kyoto Univ.; Taichung, Taiwan, invited seminar, National Museum of Natural History.

### **Thomas Gnoske**

Field Work: Kenya, Tsavo National Park; Uganda, Queen Elizabeth National Park; Uganda, Murchison Falls National Park; Central Highlands, Madagascar; Southern Andes, Peru.

Research: Nairobi, National Museums of Kenya; Nairobi, Kenya Wildlife Service; Lake Placid, FL, Archbold Biological Station.

### **Paul Z. Goldstein**

Field Work: Finland.

Research: Finnish Museum of Natural History.

Seminars, Symposia, etc.: Arizona, Lepidopterists' Society Annual Meeting; Gottingen, Germany, Willi Hennig Society Annual Meeting; Wisconsin, Prairie Invertebrates Conference; Georgia, Entomology Collections Network; Georgia, Entomological Society of America.

### **Shannon J. Hackett**

Research: Louisiana State Univ.

Seminars, Symposia, etc.: Ithaca, American Ornithologists' Union Annual Meeting.

### **Lawrence R. Heaney**

Field Work: Philippines, Cebu Island; Utah, Aquarius Plateau and Grand Staircase - Escalante National Monument.

Seminars, Symposia etc.: Philippines, consultant on biodiversity and conservation to government, Univ. and non-governmental agencies; Univ. of the Philippines, First National Conference on the Science and Management of Mountain Ecosystems, Keynote Speaker; Seattle, WA, Univ. of Washington, American Society of Mammalogists Board of Directors and Annual Meeting, seminar; Univ. of Wisconsin - Madison, invited seminar.

### **Robert F. Inger**

Field Work: Sri Lanka.

Tours: Sabah, Malaysia, Co-leader, Field Museum Tour.

**Alfred F. Newton**

Field Work: Mexico; southeastern Australia.

Research: Guadalajara, Mexico, Univ. of Guadalajara; Autlán, Mexico, Instituto Manantlán de Ecología y Conservación de la Biodiversidad; Mexico City, Instituto de Biología and Museo de Zoología (Facultad de Ciencias) at Universidad Nacional Autónoma de México; Xalapa, Mexico, Instituto de Ecología; Canberra, Australian National Insect Collection; Sydney, Australian Museum; Lincoln, Nebraska State Museum, Univ. of Nebraska; Cambridge, MA, Museum of Comparative Zoology, Harvard Univ.

Seminars, Symposia, etc.: Canberra, Australia, invited speaker, John Lawrence Celebration Symposium.

**Bruce D. Patterson**

Field Work: Kenya, National Museums of Kenya, and Tsavo National Parks; Peru, Manu National Park and Biosphere Reserve.

Research: Bonn, Germany, Museum Alexander Koenig; Berlin, Germany, Humboldt Museum; Lima, Peru, Museo de Historia Natural, Universidad de San Marcos.

Seminars, Symposia, etc.: Eugene, Oregon, seminar, Univ. of Oregon Biology Department; Orlando, Florida, American Type Culture Collection, Endangered Species Symposium; Bonn, Germany, IV International Symposium on Tropical Organisms (plenary address); Seattle, Washington, American Society of Mammalogists Annual Meeting (contributed paper); Nairobi, Kenya, National Museums of Kenya (seminar).

Tours: Field Museum Tour: United Kingdom, Tunisia, Djibouti, Seychelles, Tanzania, Zanzibar, Botswana, Zimbabwe, South Africa, Namibia, Mali, and Morocco.

**Alan Resetar**

Field Work: Indiana, Herpetological Atlas.

Seminars, Symposia, etc.: Indianapolis, Indiana, Indiana Nongame Program Amphibian and Reptile Technical Advisory Committee Meeting; Evansville, Indiana, Indiana Academy of Sciences.

**Mary Anne Rogers**

Seminars, Symposia, etc.: Seattle, Washington, American Society of Mammalogists; State College, Pennsylvania, American Society of Ichthyologists and Herpetologists.

**Petra Sierwald**

Research: Frankfurt, Germany, Senckenberg Museum; Hamburg, Germany, Zoologisches Museum der Universität Hamburg; Warszawa, Poland, Museum and Institute of Zoology, Polish Academy of Sciences.

Seminars, Symposia etc.: Madison, Wisconsin, Evolution meetings; Bialowieza, Poland, International Congress of Myriapodology.

**William T. Stanley**

Field Work: Tanzania.

Research: Tanzania and United Kingdom.

Seminars, Symposia, etc.: Seattle, WA, American Society of Mammalogists Annual Meeting; Milwaukee, WI, Milwaukee Public Museum Consultancy on Specimen Conservation.

**Margaret K. Thayer**

Field Work: Mexico; eastern Australia.

Research: Mexico, Univ. of Guadalajara; Autlán, Mexico, Instituto Manantlán de Ecología y Conservación de la Biodiversidad; Mexico City, Instituto de Biología and Museo de Zoología (Facultad de Ciencias) at Universidad Nacional Autónoma de México; Xalapa, Mexico, Instituto de Ecología; Canberra, Australian National Insect Collection; Sydney, Australian Museum; Lincoln, Nebraska State Museum, Univ. of Nebraska.

Seminars, Symposia, etc.: Canberra, Australia, invited speaker, John Lawrence Celebration Symposium.

**Janet R. Voight**

Field Work: Cruise in north Pacific Ocean to Baby Bare Outcrop, Axial Seamount, Southern Endeavour Segment, Juan de Fuca Ridge; Cruise in North Pacific Ocean, Gulf of Alaska with dives on Patton-Murray Seamount, and on-shore collecting at Kodiak Island, Alaska.

Research: British Columbia, Univ. of Victoria.

Seminars, Symposia etc.: Madison, Society for the Study of Evolution; Pittsburgh, American Malacological Society; Lubbock Texas, invited seminar, Texas Tech Univ.; Lubbock, invited Presenter (with Dr. M. Houck) Science Day '99 Texas Tech Univ./Howard Hughes Medical Institute Biological Sciences Education Program; Victoria, British Columbia, working group member on Endeavour Segment as a Pilot Marine Protected Area; Newport, Oregon, invited participant, RIDGE 2000, Planning meeting; Invited presentation, Aquatic Conservation Training Program.

**Harold K. Voris**

Field Work: Thailand, Prince of Songkhla Univ., Hat Yai Campus; Alabama, Dauphin Island Sea Lab.

Seminars, Symposia, etc.: Pennsylvania State Univ., Annual Meeting of American Society of Ichthyologists and Herpetologists; Evansville, Indiana, Indiana Academy of Sciences.

**Jeffrey Walker**

Research: Washington, DC, Naval Research Laboratories.

Seminars, Symposia, etc.: Boston, Society of Integrative and Comparative Biology; Durham, NH, 12th International Unmanned, Untethered Submersible Technology Symposium.

**Mark M. Westneat**

Field Work: Belize City, Belize, Turneffe Reef.

Research: Long Island, NY, Temperate marine wrasses.

Seminars, Symposia, etc.: Madison, WI, Society for the Study of Evolution, Univ. of Wisconsin; Durham, NH, conference on Unmanned, Untethered Submersible Technology.

**David Willard**

Field Work: Budongo Forest, Uganda; northern highlands, Madagascar.

Research: Lake Placid, FL, Archbold Biological Station; Minnesota Department of Natural Resources, regional offices; Green Bay, WI, Bay Beach Wildlife Sanctuary.

Seminars, Symposia etc.: Brussels, Albertine Rift Database.

Tours: Field Museum Tour, Inside Passage, British Columbia and Alaska.

**Philip Willink**

Field Work: Peten, Guatemala; Rio Pastaza, Peru.

Seminars, Symposia, etc.: Madison, Wisconsin, Joint Meeting of Society for the Study of Evolution/Society of Systematic Biologists; State College, Pennsylvania, American Society of Ichthyologists and Herpetologists.

**CENTER FOR CULTURAL UNDERSTANDING AND CHANGE****Jacqueline Gray**

Seminars, Symposia, etc.: Washington DC, Smithsonian Institution Center for Museum Studies "Diversity, Leadership and Museums."

**Madeleine Tudor**

Seminars, Symposia, etc.: Tucson, AZ, presentation for the Society for Applied Anthropology annual meetings.

**Alaka Wali**

(see Department of Anthropology)

## ENVIRONMENTAL AND CONSERVATION PROGRAMS

### **William S. Alverson**

Field Work: Pando, Bolivia, proposed Tahuamanu National Wildlife Refuge, Rapid Biological Inventory.

Research: Harvard Univ., Collaboration with D. Baum Laboratory.

Seminars, Symposia, etc.: St. Louis, MO, XVI International Botanical Congress; Orono, ME, Second North American Forest Ecology Workshop, Society of American Foresters, Univ. of Maine; Porter, IN, Workshop, The Nature Conservancy, Indiana Dunes National Lakeshore.

### **Gretchen Baker**

Seminars, Symposia, etc.: Taos, NM, Paleoethnobotany Workshop.

### **Gillian Darlow**

Seminars, Symposia, etc.: Madison, WI, Wisconsin Academy of Sciences, Arts and Letters.

### **Carol Fialkowski**

Seminars, Symposia, etc.: Porter, IN, Cowles Symposium, Indiana Dunes National Lakeshore; Durham, NC, Nicholas School of the Environment, Duke Univ.; Millbrook, NY, Institute for Ecosystem Studies, Eighth Cary Conference; Cincinnati, OH, North American Association for Environmental Education; Tampa, FL, Association of Science and Technology Centers Annual Conference; Findley, IL, Illinois Environmental Education Advancement Consortium Leadership Clinic; Bozeman, MT, Museum of the Rockies Symposium.

Other: Washington, DC, National Science Foundation; Shepardstown, WV, National Conservation Training Center; Washington, DC, The Biodiversity Project; Springfield, IL, Illinois Science Literacy Advisory Board; Washington, DC, The National Biodiversity Educator's Network; Frederick, VA, The Biodiversity Project; San Francisco, CA, California Academy of Sciences; Washington, DC, World Wildlife Fund.

### **Robin Foster**

Field Work: Yucatan, Mexico; Chiquibul, Cayo District, Belize; Yasuni, Napo, Ecuador; Tahuamanu, Pando, Bolivia; Bellavista & Pasochoa, Pichincha, Ecuador; Cotopaxi, Ecuador; Cosanga & Papallacta, Napo, Ecuador; Loja-Zamora, Podocarpus, Ecuador; Zabalo & Sinangue, Sucumbios, Ecuador.

Research: Belize, Las Cuevas Research Station, British Natural History Museum; Yasuni, Ecuador, Estacion Cientifica; San Sebastian, Bolivia, Estacion Biologica; Ecuador, Herbario, Univ. de Loja; San Francisco, Ecuador, Estacion Cientifica; Quito, Ecuador, Herbario Nacional; Quito, Ecuador, Herbario, Univ. Catolica.

Seminars, Symposia, etc.: Merida, Mexico, Convocation, Centro de Investigaciones Cientificas de Yucatan; St. Louis, annual meeting, Commission for Flora Neotropica; Porter, IN, Cowles Symposium, Indiana Dunes National Lakeshore; St. Louis, MO, XVI International Botanical Congress.

### **Debra Moskovits**

Field Work: Curitiba, São Paulo and Brasília, Brazil, fieldtrip (conservation initiatives in the Atlantic Forest); Cobija and La Paz, Bolivia, Rapid Inventory; Zábalo, Ecuador, Cofan turtle project.

Seminars, Symposia, etc.: Iowa City, IA, Intellectual property rights and conservation work with committees, Univ. of Iowa; Mexico City, Mexico, "Cultura y Desarrollo Sustentable;" Washington DC, "Conservation Biology and NASA: New Opportunities for Research and Applications" workshop; Honolulu, HI, "The 1999 Hawai'i Conservation Conference;" Indiana Dunes, IN, Vegetation Monitoring in a Management Context, The Nature Conservancy.

### **Thomas S. Schulenberg**

Field Work: Pando, Bolivia, Rapid Conservation Assessment.

Seminars, Symposia, etc.: Ithaca, NY, American Ornithologists' Union meeting.

**Jennifer Shopland**

Seminars, Symposia, etc.: Tucson, AZ, Southwest Authors' Association Writers' Conference; College Park, MD, Society for Conservation Biology annual meeting; Washington, DC, Conservation International/Center for Applied Biodiversity Science Workshop on Assessing and Monitoring the Status of Biodiversity in Tropical Forest Habitats; Tucson, AZ, Natural Areas Association Conference.

**Douglas F. Stotz**

Field Work: southeastern Peru, NSF grant (elevational gradients in diversity, birds and mammals).  
Seminars, Symposia, etc.: Little Rock, AR, Priority Areas of Conservation in Latin America; Little Rock, AK, Bird Priority Setting Workshop; Rend Lake, IL, Illinois Ornithological Society; Ithaca, NY, AOU Checklist Committee and American Ornithologists' Union.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

**Lutz Bachmann**

Seminars, Symposia, etc.: Mettmann, Germany, attended workshop "Central and Eastern Europe from 50,000-30,000 B. P.," Neanderthal Museum.

**CONTRIBUTIONS TO PUBLIC LEARNING, I, 1999**  
(EXHIBITS, INFORMAL EDUCATION, PUBLIC PRESENTATIONS, ETC.)

**DEPARTMENT OF ANTHROPOLOGY**

**Bennet Bronson**

Exhibit Development: Subject Matter Specialist, "The Tibetan Art of Healing," "Cartier," "The Tibetan Art of Healing;" Co-organizer, "Pearls;" Advisor and Volunteer Trainer, "Sounds from the Vaults."

Public Presentations: Lecture, "Underwater Ceramic Treasures," Women's Board "Evenings of Discovery" program; lecture, "The Field Museum's Indonesian Shipwreck," Cultural Collections Committee program.

Media Development: "Cartier" radio interview on NPR; TV interviews on Channels 2, 5 and 9; Co-host of videotape, "Foods of Africans and African-Americans."

Other: Behind-the-scenes tours for: The School of the Art Institute of Chicago class; Oriental Institute docents; Oriental Institute class; delegates to national convention of Japanese Anime Association; Wheaton College anthropology class.

**Winifred Creamer**

Public Presentations: Career Day, Franklin Middle School, Wheaton.

**Gary Feinman**

Exhibit Development: Member, Development Team, "Chocolate;" on-going planning for renovation "Halls of the Americas;" Content Specialist, in "Matatlán, Oaxaca," exhibit of photographs of El Palmillo excavations.

Education Programs: Electronic field trip from China.

Public Presentations: Lecture, Founders Council; lecture, Collections and Research Committee of the Board of Trustees; kickoff for "Cultural Connections" program; lecture, Wheaton College anthropology class visit.

Media Development: BBC-Television, Horizon program (Atlantis Uncovered).

**Jonathan Haas**

Exhibit Development: On-going planning for renovation "Halls of the Americas;" development team for "Chocolate" exhibit; Curator, "Arapaho" exhibit; Curator and Content Specialist, Hall 4/Hall 8 reorganization; Curator, upcoming "Hopi Kachinas" exhibit; Content and consultation on "Masks: Faces of Culture" exhibit; developed proposal for exhibit on "The Stranger – Other People Depicting Other people."

Education Programs: Presentation on recent collections for the Collections Committee; developed a new Members tour to Peru scheduled for 2000; Field Museum Members' Nights.

Public Presentations: Presentations on seriation of ceramics and computer modeling at Illinois Math and Science Academy "Presentation Day."

Web Projects: Paul S. Martin Project web pages.

Other: Initiated basketry imaging project; developing CDs of Hopi pottery collection.

**Chuimei Ho**

Public Presentations: Chicago Seminar in Asian Art Series of the Univ. of Chicago; "Worlds of Discovery" Asian Art in Context Lecture Series, The Art Institute of Chicago; Organizer and panelist, "Time in Later Life: How Elderly Africans and East Asians Manage Their Time," American Anthropological Association, 98<sup>th</sup> Annual Meeting.

**Chapurukha M. Kusimba**

Exhibit Development: Consultant, "Origins."

Educational Programs: Field Museum Members' Nights.

Public Presentations: Chicago Primitive Society, Chicago Renaissance Society, Kemetic Institute.



**Sibel Barut Kusimba**

Education Programs: "Origins" telebroadcast to high school students nationwide.

Public Presentations: Lecture, "Fossils and DNA: Modern Human Origins," Women's Board; public lecture, "Origins: Five Million Years of Human Evolution," at The Field Museum.

**Holly Lundberg**

Other: Conservation consultation: Chicago Historical Society; Terra Museum of American Art.

**Stephen E. Nash**

Education Programs: Archaeological Teaching Kits, Harris Loan Center, with M. Vermillion.

Web Projects: Paul S. Martin Project web pages.

**Linda Nicholas**

Exhibit Development: Content Specialist, "Matatlán, Oaxaca," exhibit of photographs of El Palmillo excavations.

Media Development: BBC-Television, Horizon program (Atlantis Uncovered).

**James L. Phillips**

Exhibit Development: Content Coordinator, "Dead Sea Scrolls" exhibit.

Public Presentations: "Tuesdays At Noon" Seminar Series.

**Anna C. Roosevelt**

Education Programs: Programming Assistance, Education Department.

Public Presentations: Invited presentations: MacArthur Foundation staff retreat; the Wayfarers Club; Public Relations Department, Museum of Science and Industry; Fermilab, Batavia Illinois; introduction, Dr. Paul Bahn lecture.

Media Development: News story development, *Newsweek*; news story development, *Chicago Tribune*; journal article development, *Atlantic Monthly*, *Science*.

Other: News story development, Society of Women Geographers; advisory committee, "The Water People," a documentary film.

**Catherine Sease**

Exhibit Development: Consultant, "Origins," "Underground Adventure," "Cartier," "La Guadalupana," "The Art of Being Kuna," "Return to the Amazon," "The Chicago Bears: 80 Years of Gridiron Legends," "The Tibetan Art of Healing," "The Dead Sea Scrolls," "Maori House."

**John Edward Terrell**

Exhibit Development: Consultant, "Sounds from the Vaults;" curatorial member, "Maori House" exhibit renovation project.

Education Programs: Field Museum Members' Nights.

**Alaka Wali**

Exhibit Development: Content Specialist, "Sounds from the Vaults;" Curatorial Liaison, "The Art of Being Kuna;" planning group, "Chocolate," "Halls of the Americas" renovation; consultation or label review for various traveling exhibits including "Summer Festivals of Oaxaca and Guerrero," "The Art of the Motorcycle," and Project Millennium. Consultant, press kits for "Sounds from the Vaults," "Motorcycles," and "The Art of Being Kuna."

Education Programs: Curatorial consultant for programs related to cultural exhibits; African Heritage Festival; Field Museum Members' Nights; curatorial contact for project with various high schools researching violence in schools; introduction for Dr. Cornell West lecture; Presentation at the opening of "The Art of Being Kuna."

Public Presentations: United Methodist Church of Evanston; National Science Olympiad; programs for the Cultural Collections Committee; speech to the Women's Board on "Sounds from the Vaults;" Cultural Connections Programs presentation.

Web Projects: Developer, CCUC web pages.

Other: Behind-the-scenes tours for: Founders Council; Cultural Collections Committee; Collections and Research Committee of the Board of Trustees; Ms. Wilma Mankiller, former Chief of the Cherokee Nation; Mr. Larry Smalls, President of Fannie-Mae Corporation.

## **DEPARTMENT OF BOTANY**

### **William C. Burger**

Exhibit Development: Subject Matter Specialist, "Chocolate" exhibit.

Education Programs: Field Museum Members' Nights; National Science Olympiad.

Tours and Field Trips: Leader, tour to Costa Rica; Leader, cruise and tour to Panama and Costa Rica.

Other: Behind-the-scenes Botany Department tours.

### **Michael O. Dillon**

Public Presentations: Women's Board "Evening of Discovery;" Co-organizer and speaker, "El Niño in Peru: Biology and Culture Over 10,000 Years," A. Watson Armour III Spring Symposium at Field Museum.

### **Eve A. Emshwiller**

Education Programs: Field Museum Members' Nights; Consultant, "Vamos a Comer; Food and Culture of Latin America" Harris Loan booklet.

Web Projects: Consultant, "Nature's Pantry" web pages.

Other: Participant, "Take Our Children to Work" Day.

### **John J. Engel**

Other: Judge, Huth Middle School Science Fair; behind-the-scenes tours of Botany Department for Northern Illinois Univ. class (Yale Factor); New Trier student volunteers.

### **Robin B. Foster**

(see Environmental and Conservation Programs)

### **Katherine A. Glew**

Public Presentations: Co-organizer, Chicagoland Lichen Society Meeting.

### **Susan M. Hamnik**

Education Programs: Field Museum Member's Nights.

Tours and Field Trips: Volunteer, Cowles Symposium and field trip to Indiana Dunes National Lakeshore.

Other: Participant, "Take Our Children to Work" Day.

### **Nancy Hensold**

Education Programs: Field Museum Members' Nights; "Celebración."

### **Patrick R. Leacock**

Education Programs: "It's Wild in Chicago" Festival; Field Museum Members' Nights; Schiller Woods field trip; "Underground Adventure" Electronic Field Trip (live broadcast).

Public Presentations: Lecture, Illinois Mycological Association; North Park Village Nature Center, Chicago; Volunteer, Steward Network Annual Meeting; invited lecture, The Nature Conservancy Volunteer Stewardship Network Conference, Chicago.

Other: Botany Department tours for student interns and volunteer orientation.

### **François M. Lutzoni**

Exhibit Development: Organization and preparation of traveling and permanent exhibits on lichen symbiosis in collaboration with Exhibits staff.

Education Programs: Field Museum Members' Nights.

Public Presentations: Initiation of the Chicagoland Lichenological Society.

Other: Various tours for Field Museum Development Office; Botany tour for executives from British Petroleum; Botany and ECP tour for Iain Taylor, Univ. of British Columbia, Canada.

**Gregory M. Mueller**

Exhibit Development: Chief Content Specialist, "Underground Adventure;" Planning Committee Member, "Biodiversity Hall;" tours and other opening events for "Underground Adventure."

Education Programs: Lecture, "Underground Adventure" Educators' Preview; performances with Bill Nye the Science Guy; "Underground Adventure" Electronic Field Trip (Live TV broadcast); "Underground Adventure" Volunteers class; "It's Wild in Chicago" Festival; Field Museum Members' Nights.

Public Presentations: Guest lecture, Ancona School, Chicago; invited lectures, St. Charles Park District, Kane Co.; Gibson Woods Preserve, Hammond, IN; Illinois Poison Control Center, Chicago; presentations, Illinois Mycological Association, Chicago; invited presentation, State Microscopy Society of Illinois, Chicago.

Media Development: Interviews related to the "Underground Adventure" exhibit for: *Chicago Sun-times*; *Chicago Tribune*; *London Times*; *The Star*; and various television outlets. Interview, "Wild Chicago" WTTW.

Web Projects: Content Specialist, "Underground Adventure" web site.

Tours and Field Trips: Field trips to: Gibson Woods Preserve, Hammond, IN; St. Charles Park District, Kane Co.; Arie Crown Woods Forest Preserve, Illinois Mycological Association; Harms Woods Forest Preserve, Illinois Mycological Association; Indiana Dunes, Cowles Symposium.

Other: Women's Board Tour, Botany Department.

**Christine Niezgoda**

Education Programs: Field Museum Members' Nights.

**Kathleen M. Pryer**

Education Programs: Field Museum Members' Nights.

Web Projects: Coordinator and Editor, Pritzker Laboratory of Molecular Evolution and Systematics web site; Coordinator and Editor, Ferns web site.

Other: Presentation to Field Museum's Women's Board (Margaret Mee visit); Botany tour to British Petroleum Board of Trustees; participant, educational videotaped symposium "Basal tracheophytes and the phylogeny of 'pteridophyte' lineages" distributed by the Mexican Botanical Society and the Green Plant Phylogeny Research Coordination Group.

**Jacinto C. Regalado, Jr.**

Public Presentations: Lecture, Society of Filipino-American Young Professionals; lecture, "Tuesdays at Noon" seminar series.

Other: Resource person (in botany) for Asian Harvest Festival, Boerner's Botanical Garden, Milwaukee; participant, Rainforest Night, Mitchell Park Horticultural Conservatory, Milwaukee.

**Harald Schneider**

Education Programs: Field Museum Members' Nights.

**Betty A. Strack**

Education Programs: Field Museum Members' Nights.

**Laura Torres**

Education Programs: Field Museum Members' Nights.

**Qiuxin Wu**

Education Programs: Field Museum Members' Nights.

## DEPARTMENT OF GEOLOGY

### **John R. Bolt**

Education Programs: Field Museum Members' Nights.

Public Presentations: Presentation (with E. Lombard) to the Univ. of Chicago Press, as part of a drive to secure long-term support for the Preserve project.

Web Projects: Developer, "Preserve" project web site.

Other: Tours of Geology collections and laboratories for various groups, including Trustees.

### **Paul Brinkman**

Education Programs: Field Museum Members' Nights.

Other: Numerous overnight courses and department tours/talks.

### **Chris Brochu**

Public presentations: "Sue: The Inside Story."

Other: Three separate training programs for museum volunteers.

### **Gregory A. Buckley**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours of the Geology Department; Women's Board Christmas Tea Tour; numerous departmental tours.

### **Peter R. Crane**

Exhibit Development: Subject Matter Specialist, "Chocolate" exhibit.

Media Development: Interview on WBEZ for "Cowles Symposium."

Other: Behind-the-scenes tour for Lake Forest Country Day School students.

### **Darin Croft**

Public Presentations: Discussed paleontology and fossils with 4<sup>th</sup> grade class at Boyd Elementary School, Omaha, Nebraska, and with 5<sup>th</sup> grade class at Washington Irving Elementary School in Dubuque, Iowa.

### **Marlene Hill Donnelly**

Education Programs: Field Museum Members' Nights.

Public Presentations: Annual Meeting, Guild of Natural Science Illustrators.

Other: Exhibited and received awards at the Guild of Natural Science Illustrators 1999 National Exhibition, the American Association of Botanical Artists' Art in Science, the Missouri Botanical Garden, the ASBA Northwest Exhibit in Bellingham, WA, the ASBA Plough-Schering Exhibit in New Jersey.

### **John J. Flynn**

Exhibit Development: Scientific Coordinator, various "Sue" exhibit public programs; assisted in development of rapid response exhibit on "World's Oldest Dinosaurs?" from Madagascar; planning discussions, "Inside-Out"; planning discussions, "Madagascar."

Education Programs: Keynote address, National Science Olympiad.

Public Presentations: Featured annual banquet speaker, ESCONI (Earth Science Club of Northern Illinois); Univ. of Chicago, "UnCommon Core" class, Alumni Reunion Retreats.

Media Development: Quoted in *Boston Globe* article "Can you dig it? If you pay, you can;" satellite press conference and media coverage for *Science*, "World's Oldest Dinosaurs?" with coverage in *Time*, *New York Times*, *Chicago Tribune*, CNN, network television news, etc.; interviewed by print, radio and television media for acquisition, public programs, and scientific work on *T. rex* "Sue;" coordinated *National Geographic* magazine *T. rex* "Sue" articles; interviewed and quoted in numerous media articles on 45 million year old S. California carnivore fossils, on-line auction sales of fossils, paleontology, etc.

Web Projects: Scientific Content Specialist/Coordinator, "Sue at the Field Museum: the largest, most complete *T. rex*" and "World's Oldest Dinosaurs?" on the Field Museum's web site.

Other: Numerous "Sue" related projects, tours, and events; member of Science Team for Scholastic book "A Dinosaur Named SUE: The Find of the Century."

#### **Lance Grande**

Public Presentations: Invited talk, U.S. National Park Service "Fireside Chat" series, Kemmerer, Wyoming; presentation, Society of Vertebrate Paleontology annual meeting, Denver, Colorado; symposium Co-organizer, Society of Vertebrate Paleontology 59th annual meeting, Denver.

#### **Scott Lidgard**

Public Presentations: Census of Marine Life Workshop on Ocean Biogeographical Information Systems, System Content and Scientific Questions Presentation.

Other: Various behind-the-scenes tours for school groups.

#### **Robert Masek**

Other: Numerous behind-the-scenes tours of Geology fossil preparation labs and McDonald's prep lab. Preparator on "Sue" Project.

#### **Clarita M. Nuñez**

Education Programs: Temporary mineral exhibit during "Dino Fest."

Other: Participant, "Take Our Children to Work" Day; Malcolm X College Class tour.

#### **Olivier Rieppel**

Public Presentations: Seminar, "A Career as Curator at the Field Museum," Univ. of Illinois at Chicago.

#### **William F. Simpson**

Exhibit Development: Preparation Supervisor, "McDonald's Fossil Prep Lab;" Content Consultant, "Sue" exhibit.

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

Media Development: Numerous media interviews on "Sue" project for various outlets.

Other: Tours to various grade school, high school, and college classes; tours, new staff orientation; tours, Development Office.

#### **Meenakshi Wadhwa**

Exhibit Development: Consulted in development of the temporary exhibit of an Apollo Moon Rock to commemorate 30<sup>th</sup> anniversary of first Moon landing; consulted in installation of "Presolar Diamonds" in Grainger Gallery of Meteorites.

Education Programs: Volunteer training; organization of Near Earth Asteroid Rendezvous (NEAR) Science Team Meeting.

Public Presentations: Invited talk, State Microscopical Society of Illinois; presentation to Women's Board as part of "Women of the Field" series; presentation to summer undergraduate interns.

Media Development: Guest on "848" with Steve Edwards, WBEZ Radio; Interview on morning news show on WGN (Channel 9) TV; Interview on Illinois Radio Network (with Dave Schwann); Press conference with Harrison Schmitt on the occasion of 30<sup>th</sup> Anniversary of 1<sup>st</sup> Moon landing.

Web Projects: Consulted and participated in "Women in Science" web site.

#### **Peter J. Wagner**

Education Programs: National Science Olympiad; "Dinos and More."

Other: Lecture and tour for Malcolm X College.

#### **Gina D. Wesley**

Public Presentations: Graduate Student Seminar, Evolutionary Biology.

Other: Tour of Field Museum research to Univ. of Chicago undergraduates.

## DEPARTMENT OF ZOOLOGY

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

Education Programs: Director, "Bug Camp;" Field Museum Members' Nights.

Tours and Field Trips: Australia and New Caledonia.

### **John M. Bates**

Education Programs: Field Museum Members' Nights.

Media Development: Newspaper interviews for: *Chicago Tribune* (2), *Evanston Review*, *Chicago Sun-Times*; TV interview, WGN.

Other: Conservation Training Consortium behind-the-scenes tour; Host for visiting lecturer and author, Scott Weidensaul; Women's Board tour.

### **Rüdiger Bieler**

Exhibit Development: Point Curator, "Pearls."

Tours and Field Trips: Preparation of Micronesia Tour.

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

### **Richard W. Blob**

Exhibit Development: Consultant, "Kinetosaurs."

### **Barry Chernoff**

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

Public Presentations: Invited Lecture, "Evolution, BioDiversity and Conservation of the Freshwater Fishes of South America," Argonne National Laboratories; American Society for Ichthyologists and Herpetologists.

Media Development: National Public Radio, *Radio Expeditions*, recorded in Guatemala.

Other: Field Museum Tour to Amazon and Machu Picchu; Zoology behind-the-scenes tours for University of Chicago, Founders' Council, Women's Board, Development office and various school groups.

### **Paul Z. Goldstein**

Public Presentations: Coordinator and speaker, Sheriff's Meadow Foundation Environmental Lecture Series, Sheriff's Meadow Foundation, Massachusetts.

Other: Leader, Natural history walks, Sheriff's Meadow Foundation, Massachusetts.

### **Shannon J. Hackett**

Exhibit Development: Featured scientist, "Women in Science" exhibit.

Education Programs: Field Museum Members' Nights; Education Department Pre-school program on birds.

Media Development: Radio interview, "848," WBEZ; newspaper interviews, *Chicago Tribune*, *Evanston Review*.

Other: Behind-the-scenes tours for Roberta Faul-Zeitler, Director, Association of Systematic Collections; Academic Affairs Vice Presidential Candidates, Education pre-school programs on birds.

### **Lawrence R. Heaney**

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

Public Presentations: Philippine Biodiversity and Conservation, four lectures in Chicago area.

Web Projects: Curator's Corner web site.

### **Robert F. Inger**

Public Presentation: Pre-tour lecture, Field Museum Tour to Sabah, Malaysia.

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

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

Media Development: History Channel Interview; premiere of "Maneater's" video on A & E; the History Channel's "Lost & Found" video debut; interview, *Dallas Morning Newspaper*.

Web Projects: Discovery Channel web site on Maneaters' of Tsavo.

Public Presentations: Lecture, Woodstock Fine Arts Association.

Other: Interview, Thomas Karow, Public Relations Director, Roosevelt University; Francis W. Parker School evening courses ; Basil & Crittenden; Night at the Field, Indian Princess Tour.

### **Alfred F. Newton**

Exhibit Development: Content advisor, "Underground Adventure."

Education Programs: Field Museum Members' Nights.

Media Development: Telephone interviews concerning Asian Longhorned Beetle for Chicago TV channels and newspapers.

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

### **Philip P. Parrillo**

Education Programs: Field Museum Members' Night; "It's Wild in Chicago," "The Insects," "Celebracion," "Cartier" opening, "Insect Success Story," Naturalist Certificate Program, "Entomology."

Public Presentations: Great Books of America, "Insects;" North Park Village Nature Center, "Ground Beetles as Indicators of Habitat Quality," Bug Camp.

Media Development: "Brainstorm," *Curiosity* magazine; "Bees and Wasps," Thompson Target Media; "Giant Silk Moths," Streator Times Press, Tom Skilling - WGN.

Tours: National Science Museum of Tokyo, Chicago Academy of the Arts, Conservation Training Consortium, New Staff Orientation Tour, Chinese National Delegation.

Other: Lecturer, Biodiversity Explorers.

### **Bruce D. Patterson**

Exhibit Development: Research to rename elements in "Lion Spearing" exhibits; identifying two temporary exhibits ("BBC Wildlife Photographer of the Year" and "Extreme Science") for possible use.

Education Programs: Field Museum Members' Nights; planning for electronic fieldtrips on Tsavo.

Public Presentations: "History of Field Museum Research in Africa" (introduction to Cynthia Moss lecture).

Media Development: Newspaper interview on winter ecology, *Chicago Tribune*; radio panelist, "Winter ecology," 848 radio with Steve Edwards (WBEZ); video interview, History Channel, "Tsavo man-eaters;" video interview, The Learning Channel, "the most dangerous animals", cameo in Bill Kurtis' Investigative Reports on "Man-eaters."

Tours and Field Trips: FM study leader for "Africa and the Indian Ocean by Private Jet."

Other: Presentation to Biodiversity Explorer's on Tsavo.

### **Martin Pryzdia**

Education Programs: Field Museum Members' Nights; Co-event Supervisor, National Science Olympiad.

Other: Various tours of the Division of Amphibians and Reptiles; University of Illinois at Chicago Chicago Wetlands Consortium, Hanover College Biology class, Chicago Herpetological Society guest speakers, and new staff/volunteers.

### **Cassandra Redhed**

Education Programs: Field Museum Members' Nights.

Other: Various tours of the Division of Amphibians and Reptiles; Indiana University; University of Chicago Biology Club, St. Joseph College Biology Club, Museology Club, new staff/volunteer tour.

### **Alan Resetar**

Exhibit Development: World War II Collections.

Education Programs: Field Museum Members' Nights; Co-event Supervisor, Science Olympiad.

Other: Behind-the-scenes tours for Chinese Academy of Science delegation, Association of Systematics Director Roberta Faul-Zeitler.

**Mary Anne Rogers**

Education Programs: Field Museum Members' Nights.

Other: Behind-the-scenes tours for Brownie Troop 396, Lake Forest Country Day School, Michael Mungai of the National Museums of Kenya, visiting Chinese delegation.

**Petra Sierwald**

Exhibit Development: Zoology Point Person, "Underground Adventure."

Education Programs: Electronic Field Trip from the Underground Adventure Exhibit (1,000,000 students reached); lecture and guided tour through Underground Adventure for the Movie Theme in the series "Brew & View."

Other: Lectures to "Bug Camp" participants.

**William T. Stanley**

Education Programs: Field Museum Members' Nights; Museology; Introduction and presentation for "The Ghost and the Darkness," Education Department.

Tours and field trips: Field Museum leader for Member's Tanzania tour;

Other: Behind-the-Scenes for school and family groups; tours of the collection for President's office, Strategic Planning Education Committee, Development Office, Education Department, Women's Board; University of Chicago, Illinois Biology Colloquium.

**Daniel A. Summers**

Exhibit development: "105 years of collecting."

Education Programs: Field Museum Members' Nights; "It's Wild In Chicago;" "Trapped in Amber;" "Y2K Bug;" National Science Olympiad (National Supervisor).

Media Development: Newspaper interviews, *Chicago Tribune*, *Chicago Sun-Times*.

Other: Various behind-the-scenes tours for school groups etc.

**Kevin Swagel**

Exhibit Development: Helped select fish specimens for "Collecting in WWII" exhibit; content advisor for coelacanth case signage.

Education Programs: Field Museum Members' Nights; hosted 6<sup>th</sup> grader Isac Enriquez as part of the Expanding Horizons Foundation's "My Job for a Day" program.

Other: Behind-the-scenes tours for the Conservation Training Consortium, Brickton elementary school, Tours Department group, Development Office tour for Mrs. Siragusa and family.

**Margaret K. Thayer**

Exhibit Development: Content Specialist and content contributor, "Underground Adventure;" label reviewer, new butterfly/moth exhibit panels and "Insects: 105 Years of Collecting."

Education Programs: Content Specialist and Contributor, "Underground Adventure;" Field Museum Members' Nights; "Scientist on the Floor" programs; presenter, family behind-the-scenes "Insect Collecting" program; "It's Wild in Chicago."

Public Presentations: lecture, Field Museum Women's Board.

Media Development: telephone interview, *Times of Northwest Indiana*.

Web Projects: Participant, "Women in Science" web site and Content Specialist for Education Dept. web site.

Other: Behind-the-scenes research/collections presentation to Newt Gingrich (for Development).

**Janet R. Voight**

Education Programs: Field Museum Members' Nights.

Public Presentations: Lecture, Science Day '99 Texas Tech University/Howard Hughes Medical Institute Biological Sciences Education Program; Workshop presenter (with Dr. Marilyn Houck) "Females and Science" Science Day '99 Texas Tech University/Howard Hughes Medical Institute Biological Sciences Education Program.



Media Development: Interview in *Scientific American*, edited by Sarah Simpson.

**Harold K. Voris**

Education Programs: Field Museum Members' Nights.

Other: American Society of Ichthyologists and Herpetologists; presentation, Indiana Academy of Sciences; invited presentation; Prince of Songkhla University, Hat Yai Campus, Thailand.

**Mark Westneat**

Public Presentations: Program in Aquatic Biodiversity, Shedd Aquarium.

**David Willard**

Education Programs: Field Museum Members' Nights; African Heritage Festival; Museology; Family Behind-the-Scenes Program; National Science Olympiad.

Public Presentations: Lectures: Dunes Calumet Audubon Society; Audubon Society of Bloomington; Thorn Creek Audubon Society; Sierra Club; Libertyville Audubon Society; Evanston-North Shore Audubon Society; Fort Dearborn Audubon Society.

Other: Chicago Ornithological Society Warbler Identification Class.

**Philip Willink**

Education programs: Field Museum Members' Nights.

Other: Informal AquaRAP presentations to visitors to the Fish Division.

**CENTER FOR CULTURAL UNDERSTANDING AND CHANGE**

**Jacqueline Gray**

Exhibit Development: Convened, Community Advisory Committee for the "Dead Sea Scrolls" exhibit; community gallery exhibit on Weddings Tours and field trips; presented the "Living Together" framework for scheduled corporate diversity education field trips as part of the Corporate Living Together program.

Other: Coordinated the reporting of the Museum's public programs for the Museums in the Parks report to the Chicago Park District.

**Rebecca Severson**

Exhibit Development: "The Oakton Project" exhibit Committee; development of educational program for "The Oakton Project."

**Madeleine Tudor**

Exhibit Development: Convened, Community Advisory Committee for the "Dead Sea Scrolls" exhibit; Project Manager, "The Oakton Project" exhibit collaboration.

Education Programs: Development of educational materials for the "Living Together" exhibit, in conjunction with the Education Department and the Harris Loan Center; development of educational program for "The Oakton Project;" Field Museum Members' Nights.

Media Development: Newspaper interview, *Chicago Tribune*.

Web Projects: Developer, CCUC web pages for The Field Museum web site.

**Alaka Wali**

(see Department of Anthropology)

**ENVIRONMENTAL AND CONSERVATION PROGRAMS**

**Carol Fialkowski**

Public Presentations: Grand Victoria Foundation, Elgin, IL; Illinois Environmental Education Advancement Consortium Leadership Clinic, Findley, IL.

**Robin Foster**

Education Programs: Field Museum Members' Nights.

Public Presentations: Lecture, Field Museum Women's Board.

Tours and Field Trips: Mellon Foundation Intern field trips to: River Forest, Volo Bog, Turkey Run, Morton Arboretum, Chicago Botanic Garden, Garfield Conservatory, Warren Dunes, Warren Woods, Mud Lake Bog.

Other: Production of 50 preliminary color guides to plants in conservation areas of: Belize, Panama, Colombia, Ecuador, Peru, Bolivia, China, and Philippines; Production of Emergency field guides to: Chamela, Mexico; La Suerte, Costa Rica; Casanare, Colombia; development & improvement of botanical training trails, Zabalo, Cuyabeno Reserve, & Yasuni Scientific Research Station, Ecuador; tour of Rapid Reference Collection, Morton Arboretum group.

**Debra Moskovits**

Public Presentations: Chicago Wilderness Funders' breakfast, Chicago, IL; Field Museum Women's Board "Evenings of Discovery;" Montrose Point Plan Workshop, Chicago, IL.

**Douglas F. Stotz**

Education Programs: Field Museum Member's Nights; Naturalist Certificate Program; Content Consultant, Urban Watch.

Public Presentations: Illinois Ornithological Society; Cooper Ornithological Society (co-author); Lakeview Citizen's Council; Lakefront Bird Habitat Panel; Bird Conservation Network Conference; Ryerson Smith Symposium; Midwest Fish & Wildlife Conference (co-author); Montrose Point Plan Workshop.

Media Development: Newspaper Interviews for *Chicago Tribune*, *Chicago Sun-Times* and Regional News; television interviews for CLTV.

Tours and Field Trips: Galapagos; Amazonian Ecuador.

**Jennifer Shopland**

Public Presentations: Organized and executed "A Chicago Wilderness Stakeholder Workshop," Chicago Region Biodiversity Council; contributed to public lecture on vegetation monitoring for Chicago Wilderness, Chicago Botanic Garden.

Other: Contributed portion of Interactive Forum on Vegetation Monitoring for Chicago Wilderness, Chicago Botanic Garden.

**Thomas S. Schulenberg**

Education Programs: Field Museum Members' Nights.

Public Presentations: Evanston North Shore Bird Club.

Media Development: Featured in *National Geographic*; interviewed for *Science World*; featured in three episodes of nationally-syndicated radio show "Pulse of the Planet;" provided ambient sound recordings of the Congo Basin to National Public Radio for use in an episode of "Radio Expeditions."

**CONTRIBUTIONS TO PUBLIC LEARNING, II, 1999**  
(PROFESSIONAL ORGANIZATIONS, UNIVERSITY/HIGH SCHOOL EDUCATION)

**DEPARTMENT OF ANTHROPOLOGY**

**Bennet Bronson**

Graduate Students Advised: Magnus Fiskesjo, Univ. of Chicago; Michael Flecker, National Univ. of Singapore.

Undergraduate Interns: Alice Yao, Univ. of Chicago.

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

Seminars, Symposia, etc.: Presentation (with C. Kusimba), 64<sup>th</sup> Annual Meeting of the Society for American Archaeology.

**Winifred Creamer**

High School Interns: Julia Jennings, Illinois Math and Science Academy.

Courses: "General Prehistoric Archaeology" (undergraduate course); "Archaeology of Mesoamerica" (undergraduate course), Anthropology Department, Northern Illinois Univ.

Seminars, Symposia, etc.: NIU Conference for Young Women, NIU campus, DeKalb, Illinois.

**Gary M. Feinman**

Graduate Students Advised: Laura Waterbury, Andrew Wyatt, Univ. of Illinois at Chicago; Christopher Fisher, Univ. of Wisconsin-Madison.

Seminars, Symposia, etc.: Invited presentation, 98<sup>th</sup> Annual Meeting of the American Anthropological Association; session organizer, and presentation, 64<sup>th</sup> Annual Meeting of the Society for American Archaeology.

**Jonathan Haas**

Graduate Students Advised: Jun Hong, Rosa Cabrera, Univ. of Illinois at Chicago.

Undergraduate Interns: Marlene McCabe, Nodwesi Redbear, The School of the Art Institute of Chicago; John Beaver, Tressa Bidelman, Dan Corkill, Dan Schnepf, Linda Wild, Univ. of Illinois at Chicago.

High School Interns: Aaron Wenzel and Alan Liu, Illinois Mathematics and Science Academy.

Courses: "The Archaeology of the Southwest," Univ. of Illinois at Chicago.

Seminars, Symposia, etc.: Organized (with M. Dillon) and made introductory and conclusion presentations, "El Niño in Peru: 10,000 years of Biology and Culture," Field Museum Spring Systematics Symposium.

**Chapurukha M. Kusimba**

Graduate Students Advised: Gilbert Oteyo, Univ. of Oxford; David Wright, Ellen Quinn, Iman Saca, Mario Longoni, Iman Shehadi, Univ. of Illinois at Chicago; Jeremy Prestholdt, Northwestern Univ.; Deborah Stokes Hammer, Columbia College; Karen Privat, University of Sheffield; Briana Pobiner, David Royce Braun, Rutgers University; Tramayne Butler, University of Michigan, Emily Renchler, University of Pennsylvania.

Undergraduate Interns: Janice Wing, Bryn Mawr College; Alison Hawkes, Haverford College; Lori Arquilla, Univ. of Illinois at Chicago; Rita Mugao, Univ. of Nairobi; Benson Odeny-Obul, Angela Kabiru, National Museums of Kenya; Katie Meyer, Indiana Univ.; Jennifer Kolnic, Beloit College; Jessica Westphal, DePaul Univ.; Rahul Oka, Lawrence Univ.; Daniel Melone.

Seminars, Symposia, etc.: Presentation, 98<sup>th</sup> Annual Meeting of the American Anthropological Association; presentation (with B. Bronson), 64<sup>th</sup> Annual Meeting of the Society for American Archaeology; lecture, Chagmool Conference on Indigenous Archaeology, Calgary, Canada; lecture, Complex Societies Biennial Meeting, La Jolla, California; lecture, Crosscurrents: Art and Power in Eastern Africa, Iowa City, Iowa; Lectures, Bryn Mawr College, Univ. of Nairobi, State Univ. of New Jersey, Univ. of Illinois at Chicago, Univ. of Georgia, Univ. of California at San Diego.

**Sibel Barut Kusimba**

Courses: "Old World Prehistory" and "Archaeological Method and Theory," Univ. of Illinois at Chicago.

**Stephen Nash**

Post Graduate Interns: Randi Wolf, graduate of Colby College; Erin Kimmerle, Univ. of Tennessee; Ed Mahar, Mary Vermillion, Univ. of Illinois at Chicago.

Graduate Students Advised: Marisa Fontana, Univ. of Illinois at Chicago.

Undergraduate Interns: Christine Derkacy, Univ. of Illinois at Chicago; Adrienne Watson, Beloit College; John Beaver, Univ. of Illinois at Chicago; Nodwesi Red Bear, The School of The Art Institute of Chicago.

High School Interns: Brendan Steadman, New Trier High School; Mary-Christina Oxtoby, Univ. of Chicago Lab School.

Courses: "Introduction to Biological Anthropology and Archaeology" (undergraduate course), Lake Forest College, Lake Forest, IL.

Seminars, Symposia, etc.: Presentation, 64<sup>th</sup> Annual Meeting of the Society for American Archaeology.

**Linda Nicholas**

Graduate Student Advised: Christopher Needs, Univ. of Illinois at Chicago.

**James L. Phillips**

Seminars, Symposia, etc.: Lectures, Al Quds Univ., Jerusalem; American Research Center in Egypt; Cairo Univ.; Harvard Univ.; Hebrew Univ.

**Anna C. Roosevelt**

Graduate Students Advised: Thomas Jackman, Alexander Hamill, Ellen Quinn, Bess Celio, Samantha Peres, Roselis Mazurek, Mark Johnston, Univ. of Illinois at Chicago; Susan Swales, Univ. of Florida at Gainesville; Maura Imazio da Silveira, Univ. of Sao Paulo.

Interns: Mark Baldridge, Sarah Murray.

Trainees: Henri Zana, World Wildlife Dzanga-Sangha Reserve, Bayanga, Central African Republic; Bertin Mbongo, Univ. of Bangui, Central African Republic; Christiane Lopes Machado, Universidade Estacio de SA, Rio de Janeiro.

Seminars, Symposia, etc.: Invited presentation, Biology Department, Univ. of Illinois at Chicago; guest lecture, Department of Architecture and History of Art, Univ. of Illinois at Chicago; Invited presentation, 98<sup>th</sup> Annual Meeting of the American Anthropological Association; invited presentation, 64<sup>th</sup> Annual Meeting of the Society for American Archaeology; invited presentation, Central States Anthropology Meeting, Chicago; invited presentation, Chicago Chapter, Society of Women Geographers.

**Catherine Sease**

Postgraduate Interns: Joel Thompson, Buffalo State College; Candis Griggs, Queen's Univ., Ontario.

Trainees: Carole Havlik.

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

**John Edward Terrell**

Undergraduate Interns: Timothy Rieth, Univ. of Hawai'i.

Courses: "Race, Language, and History: Concepts, Controversies, and Research Strategies in Modern Anthropology" (advanced seminar course), Univ. of Illinois at Chicago.

Seminars, Symposia, etc.: Co-Organizer and paper presenter, Annual Meetings, Society for American Archaeology; Discussant in the symposia, "Islands in History" and "Forms of Regional Integration," Annual Meetings, American Anthropological Association.

**Anne P. Underhill**

Graduate Students Advised: Geoffrey Cunnar, Liaus Enriquez, Yale University; Committee Member for Gwen Bennett, UCLA; Christopher Needs, Univ. of Illinois at Chicago.

### **Alaka Wali**

Graduate Students Advised: Michael Hudson, Sharon Penniston, ABD, Univ. of Illinois at Chicago; Joanna Brown, Univ. of Chicago; Patricia Williams, Univ. of Illinois at Chicago.

Undergraduate Students Advised: Jaya Alterman, Helen Jugovich, Lake Forest College.

Undergraduate Interns: (See Center for Cultural Understanding and Change).

Courses: "Introduction to Urban Anthropology" (undergraduate course) Lake Forest College.

Seminars, Symposia, etc.: Rolling Meadows High School; Presented papers, Society for Applied Anthropology; Central States Anthropology Society; American Public Health Association. Invited Paper, Qualitative Research on Pre-term Delivery, Division of Reproductive Health of the Centers for Disease Control and Prevention. Lectures, Northwestern Univ., Lake Forest College, Univ. of Chicago, Univ. of Illinois at Chicago.

### **Robert Welsch**

Courses: "Anthropology of Religion" and "Medical Anthropology," Dartmouth College; "Introduction to Anthropology," College for Life Long Learning, Lebanon, NH.

Seminars, Symposia, etc.: American Anthropological Association; Pitt Rivers Museum, Oxford; Univ. of Vermont, Burlington, VT.

## **DEPARTMENT OF BOTANY**

### **Michael O. Dillon**

Other: Guest lecture for Univ. course: "Biogeography of the Atacama and Peruvian Deserts," Univ. of Chicago Biogeography Class.

### **Eve A. Emshwiller**

Undergraduate Intern: Josh Crea, DePaul Univ.

Seminars, Symposia, etc.: Abbott Laboratories, Abbott Park, IL; Universidad Nacional Mayor de San Marcos (UNMSM), Lima, Peru; the Granja K'ayra (agricultural college) of the Universidad Nacional San Antonio Abad del Cusco (UNSAAC), Cusco, Peru; and the Cusco office of the Instituto Nacional de Investigación Agropecuaria (INIA), Cusco, Peru.

### **Fernando Fernández**

Seminars, Symposia, etc.: Two workshops, "Taxonomy of fungi for parataxonomists," Institute of Biodiversity (INBio), San José, Costa Rica; Instructor, NSF-sponsored workshop, "Taxonomy of Ascomycetes," Simon Bolivar Univ., Caracas, Venezuela.

### **Robin B. Foster**

(see Environmental and Conservation Programs)

### **Nancy Hensold**

Seminars, Symposia, etc.: Workshop for educators, "Paths to Careers in Science: Dialogue and Discovery," at Women in Science and Technology Conference, Univ. of Illinois at Chicago.

### **Sabine M. Huhndorf**

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

### **Patrick R. Leacock**

Undergraduate Interns: Erin Archer, Judy Wu, Univ. of Chicago; Annie Yovovich, Kenyon College, Gambier, Ohio; Milena Maver, Univ. of Geneva, Switzerland.

Seminars, Symposia, etc.: The 1999 Soil Ecology Society Conference, Chicago; poster presentations, International Botanical Congress and Mycological Society of America Annual Meeting, St. Louis, Missouri; invited presentation, North American Mycological Association Annual Foray, Cape Girardeau, Missouri.

### **François M. Lutzoni**

Postdoctoral Associates: Katherine Glew, NSF; Jolanta Miadlikowska, NSF and Kosciuszko Foundation; Stefan Zoller, Swiss National Foundation.

Graduate Students Advised: Mike Alfaro, Keith Barker, Jutta Buschbom, Link Olson, Rachel Collin, Univ. of Chicago; Ignazio Carbone, Univ. of Toronto; Tami McDonald, Univ. of Minnesota; Jolanta Miadlikowska, Univ. of Gdansk, Poland; Andrew Miller, Valérie Reeb, Univ. of Illinois at Chicago; Dawn Simon, Univ. of Iowa; Stefan Zoller, Univ. of Zurich, Switzerland.

Undergraduate Interns: Hanson Ho, Purdue Univ.; Serenity Wehrenberg, Northeastern Illinois Univ.

Trainees: Marcela Eugenia da Silva Cáceres, Universidade Federal de Pernambuco, Brazil; Fernando Fernandez, FMNH postdoctoral researcher; Ilse Kranner, Karl-Franzens Univ. of Graz; Robert Lücking, Universität Bayreuth, Germany; Ulrik Söchting, Univ. of Copenhagen, Denmark.

Seminars, Symposia, etc.: Department of Biology, Univ. of Michigan; Department of Zoology, St. George Campus, Univ. of Toronto; Department of Botany, Erindale College, Univ. of Toronto; Department of Biological Sciences, Univ. of Illinois at Chicago; Department of Biological Sciences, Louisiana State Univ.; Biology Department, Univ. of Louisiana at Lafayette; XVI International Botanical Congress; Department of Plant Ecology and Nature Protection, Univ. of Gdansk; annual organizational meeting for UIC-FM Collaboration for Teaching and Graduate Training Activities, Univ. of Illinois at Chicago.

Other: Organizer of Weekly Lichenology Discussion Group.

### **Gregory M. Mueller**

Postdoctoral Associates: Patrick Leacock; John Paul Schmit.

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

Undergraduate Interns: Erin Archer, Judy Wu, Univ. of Chicago; Milena Maver, Univ. of Geneva, Switzerland.

Trainees: Isaac López Núñez, Enia Navarro Valverde, Eida Fletes Almengor, María Xinia Oses Leitón, Milton R. Umaña Salazar, INBio, Costa Rica.

Courses: "Mutualisms and Symbiosis" (undergraduate majors course), Univ. of Chicago; "Advance Course on Fungi for Parataxonomists," National Institute of Biodiversity (INBio), Costa Rica.

Seminars, Symposia, etc.: Invited presentation, Cowles Symposium; conference co-organizer and presenter, Soil Ecology Society Meeting, Chicago; symposium co-organizer and presentations, International Botanical Congress, St. Louis; symposium co-organizer and invited presentation, Latin American Mycological Congress, Venezuela; workshop co-organizer, Workshop on Fungi Inventory, National Institute of Biodiversity, Costa Rica; invited presentation, North American Mycological Society Annual Meeting, Missouri; invited presentation, Illinois Association of Community College Biologists, Champaign.

Other: Guest lecture, "Contemporary Pharmacognosy," Univ. of Illinois at Chicago.

### **Kathleen M. Pryer**

Postdoctoral Associates: Harald Schneider, Jennifer Steinbachs.

Graduate Students Advised: Susana Magallon-Puebla, Univ. of Chicago; Valérie Reeb, Univ. of Illinois at Chicago; Niklas Wikstrom, Stockholm Univ., Sweden; Ray Cranfill, Univ. of California, Berkeley; Jay Therrien, Univ. of Kansas.

Undergraduate Interns: Harit Bhatt, Ankur Vaghani, Univ. of Illinois at Chicago; Gretchen Moeser, Univ. of Chicago.

Seminars, Symposia, etc.: Symposium presentation sponsored by the Green Plant Phylogeny Research Coordination Group, Instituto de Ecología, Xalapa, Veracruz, Mexico (presentation part of educational videotape for distribution by Mexican Botanical Society); Department of Biology, Stockholm Univ., Sweden; Co-author on 5 paper presentations, XVI International Botanical Congress, St. Louis, Missouri; Department of Biology Seminar, Univ. of Michigan; Department of Biology, Univ. of Louisiana, Lafayette, Louisiana; Department of Biological Sciences, Louisiana State Univ., Baton Rouge, Louisiana.

**Jacinto C. Regalado, Jr.**

Courses: "PMPG 517" (graduate course), Univ. of Illinois at Chicago; "Contemporary Ethnobotany," College Botany Program, Morton Arboretum and Associated Colleges of the Chicago area.

Seminars, Symposia, etc.: Training workshop on Geographic Information Systems, Escuela Superior Politecnica de Chimborazo, Riobamba, Ecuador; 1<sup>st</sup> Annual UIC-ICGB Meeting.

**Harald Schneider**

Undergraduate Interns: Harit Bhatt, Ankur Vaghani, Univ. of Illinois at Chicago; Gretchen Moeser, Univ. of Chicago.

**Djaja Djendoel Soejarto**

Postdoctoral Associate: Dr. J.C. Regalado, Botany Department, Field Museum and UIC.

Graduate Students Advised: Marian Kadushin, Mark Johnston, Alex Hamill, Amanda Koch, Tatiana Lobo, University of Illinois at Chicago.

**Jennifer Steinbachs**

Seminars, Symposia, etc.: Invited seminar, Chicago Bioinformatics Seminar Series, Univ. of Chicago.

**Qiuxin Wu**

Undergraduate Interns: Molly Whedbee, Reed College, Portland, Oregon.

Seminars, Symposia, etc.: Invited lecture, Harbin Ectomycorrhiza Workshop.

**DEPARTMENT OF GEOLOGY**

**John R. Bolt**

Seminars, Symposia, etc.: Claremont College and California State College at San Bernardino, both on origin and evolution of early tetrapods.

**Chris Brochu**

Undergraduate Intern: Bradley Beck, California State Univ., San Bernardino, CA.

Seminars, Symposia, etc.: Ostrom Symposium on Origin of Birds, New Haven, CT; Society of Systematic Biologists/Society for the Study of Evolution, Madison, WI; Society of Vertebrate Paleontology and Geological Society of America, Denver.

**Gregory A. Buckley**

Course: Seminar in the Natural Sciences, Roosevelt Univ.

**Peter R. Crane**

Postdoctoral Associates: Andrew Douglas, Richard Lupia.

Graduate Students Advised: Susana Magallón-Puebla, Hallie Sims, Melinda Brady, Univ. of Chicago.

Courses: "Paleobotany" (undergraduate and graduate course), University of Chicago.

Seminars, Symposia, etc.: Harvard Univ.; Univ. of Iowa.

**Darin Croft**

Courses: Instructor, "Human Morphology," Univ. of Chicago; Guest Lecturer, "Vertebrate Paleontology," Lake Forest College; Guest Lecturer, "Grants, Publications, and Professional Issues," Univ. of Chicago.

Seminars, Symposia, etc.: Annual Meeting, Society of Vertebrate Paleontology, Denver, Colorado; Primero Congreso Internacional de Evolución Neotropical del Cenozoico.

**Marlene Hill Donnelly**

Course: "Scientific Illustration" (undergraduate course), The Field Museum.

**John J. Flynn**

Postdoctoral Associates: Sarah Zehr.

Graduate Students Advised: Darin Croft, Karen Sears, Gina Wesley, Univ. of Chicago; Doreen Covey, Univ. of Illinois at Chicago; Robin Whatley, Univ of California-Santa Barbara.

Graduate Students, Ph.D. Committee: Link Olson, Francesca Smith, Jonathan Marcot, Univ. of Chicago; Mahesh Gurung, Univ. of Illinois at Chicago.

Undergraduate Interns: Suzy Slominski, Univ. of Illinois at Chicago; Anne Kehoe, Malcolm X College.

Field Museum Scholarship Committee Graduate Student Research:

Courses: "Grants, Ethics, and Professional Issues" (co-instructor of graduate workshop); "Evolution: Genes to Groups" (co-instructor with W. Ballard); session leader (ethics, mentoring) in divisional graduate course on "Scientific Integrity and Ethical Conduct of Research," Univ. of Chicago.

Seminars, Symposia, etc.: Lecture, Western Association of Vertebrate Paleontology; lecture, Congreso Internacional Evolución Neotropical del Cenozoico; lecture, IV International Symposium on Andean Geodynamics, Gottingen, Germany; poster presentation, Annual Meeting, Society of Vertebrate Paleontology.

**Lance Grande**

Postdoctoral Associates: Jin Fan, IVPP, Beijing, China.

Graduate Students, Ph.D. Committee: Marius Van der Merwe, Univ. of Illinois; Kenshu Shimada, Univ. of Illinois; Rebecca Thomas, Univ. of Chicago; Eric Hilton, Univ. of Massachusetts, Amherst.

Other: Guest lecturer, "Biogeography," for course (instructor: B. Patterson) at Univ. of Chicago.

**Scott Lidgard**

Research Assistant: Rebecca Conant

**Olivier C. Rieppel**

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

Courses: "Evolutionary Morphology of Vertebrates," Northwestern Univ.

**William D. Turnbull**

Graduate Student Advised: Darin Croft, Univ. of Chicago.

**Meenakshi Wadhwa**

Undergraduate Interns: Noel Heim, Univ. of Chicago.

Trainee: Shelly Ericksen

Seminars, Symposia, etc.: Guest lecture, "Body of the Earth," Department of Geology, Northwestern Univ.; invited presentation, Near Earth Asteroid Rendezvous (NEAR) Science Team Meeting at the Field Museum; presentation, Lunar and Planetary Science Conference.

**Peter J. Wagner**

Graduate Students Advised: Jonathon Marcot, Allison Beck, Robin O'Keefe, Rebecca Price, Christian Sidor, Jeffery Wilson, Univ. of Chicago; Andrea Lofgren, Univ. of Illinois at Chicago; Phillip Gottshall, Univ. of Cincinnati.

Courses: Reading Course with Jonathon Marcot, Univ. of Chicago; "Biodiversity Grant," University of Chicago; Likelihood Reading Group, Univ. of Chicago.

**Gina D. Wesley**

Seminars, Symposia, etc.: Annual Meeting, Society of Vertebrate Paleontology, Denver, CO; Graduate Student Seminar, Evolutionary Biology.

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

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

Undergraduate Interns: Alia Black, Univ. of Chicago; Christe Smith, Kansas State.



Trainees: Jane Zimmerman, Zeus Preckwinkle, Mike McMahon.

High School Interns: Zachary Yarling, Frances Parker High School; Nishi Roothann, Chicago Academy for the Arts.

Courses: "BioSci192"(undergraduate) and "BioSci161"(undergraduate), Univ. of Chicago.

Seminars, Symposia etc.: Invited Seminar Univ. of Indiana, Bloomington.

### **John M. Bates**

Graduate Students Advised: Jaqueline Goerck, Jorge Perez, Univ. of Missouri; Jose Tello, Norbert Cordiero, Univ. of Illinois at Chicago; Rachel Collin, Univ. of Chicago; Erik Rothacker, DePaul Univ.; Ben Marks, Illinois State Univ.; Oscar Gonzalez, Univ. of San Marcos, Lima; Wilsea Figueiredo, Universidade do Pará, Belém.

Undergraduate Interns: Stephanie Scott, Sean Bober, Univ. of Illinois at Chicago.

Trainees: Oscar Gonzalez (Conservation Training Consortium Summer Session).

Courses: Conservation Training Consortium Summer Session.

Seminars, Symposia, etc.: Ithaca, American Ornithologists' Union Annual Meeting, Invited presentation, Department of Ecology and Evolutionary Biology, Illinois State Univ., Normal; Natural History Seminar, Univ. of Chicago.

### **Rüdiger Bieler**

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

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

Seminars, Symposia, etc.: International Symposium on the Biology and Evolution of the Bivalvia, Cambridge, UK; Evolution Meeting, Madison, Wisconsin; International Conference on Scientific Aspects of Coral Reef Assessment, Monitoring, and Restoration, Ft. Lauderdale, Florida.

### **Richard W. Blob**

Undergraduate interns: Cinnamon Pace, Univ. of Chicago.

Seminars, Symposia, etc.: Invited presentation, Department of Biology, Ohio Univ.; invited presentation, Evolutionary Morphology Seminar Series, Univ. of Chicago; Society for Integrative and Comparative Biology; American Society of Ichthyologists and Herpetologists; Society for Vertebrate Paleontology (2 presentations).

Other: Guest lecture, "Aquatic Biology," Aurora Univ.

### **Barry Chernoff**

Graduate Students Advised: Michael Alfaro, Keith Barker, Richard Blob, Rachel Collin, Amy Driskell, Eugene Hunt, Jeff Janovitz, Rowan Lockwood, Susana Magallon-Puebla, Paul Magwene, Link Olson, Lisa Rosenberger, K. Rebecca Thomas, Univ. of Chicago; Matthew Dean, Univ. of Illinois at Chicago; Mike Tringali, Univ. of South Florida.

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

"Morphometrics," (graduate course), Univ. of Illinois at Chicago.

Seminars, Symposia, etc.: Invited presentation, College Colloquium of the Greater Chicago Area, Argonne National Laboratories.

### **Jack Fooden**

Seminars, Symposia, etc.: Invited lecture, Department of Zoology, National Taiwan Univ., Taipei; invited seminar, Department of Ecology and Evolution, Univ. of Chicago.

### **Paul Z. Goldstein**

Seminars, Symposia, etc.: Invited seminar, Department of Entomology, Univ. of Illinois, Urbana-Champaign; Invited seminar, Natural History seminar series, Univ. of Chicago; Invited presentation, Symposium on The Intersection of Phylogenetics, behavior, and life history evolution, Entomological Society of America; Lepidopterists' Society Annual Meeting; Willi Hennig Society Annual Meeting (2 presentations).

### **Shannon J. Hackett**

Graduate Students Advised: F. Keith Barker, Amy Driskell, Jordan Karubian, Melissa Morales-Cogan, Univ. of Chicago; Jaqueline Goerck, Jorge Perez, Univ. of Missouri; Ben Marks, Illinois State Univ., Normal.

Undergraduate Interns: Leah Berkman, Univ. of California, Berkeley.

Seminars, Symposia, etc.: Invited presentation, American Ornithologists' Union Annual Meeting; invited presentation, Univ. of Illinois, Chicago.

Other: Guest lecture, "Biogeography," Univ. of Chicago; co-organizer, "Evolution," Lake Forest College course to be taught in the Field Museum's Bird Division; presentation to graduate students, dissertation improvement grants, Univ. of Chicago.

### **Lawrence R. Heaney**

Graduate Students Advised: Leticia Afuang, Blas Tabaranza, Univ. of the Philippines at Los Banos; Melissa Cogan, Joseph Walsh, Link Olson, Gina Wesley, Univ. of Chicago; Jodi Sedlock, Univ. of Illinois at Chicago; Nina Ingle, Cornell Univ.

Trainees: Traveling scholars Nina Ingle and Blas Tabaranza, Jr.

Courses: "Conservation Biology" (undergraduate course, with D. Stotz), Northwestern Univ..

Seminars Symposia, etc.: Guest lecture, Chicago Conservation Training Consortium; Keynote Speaker, First National Conference on the Science and Management of Mountain Ecosystems, Univ. of the Philippines; Contributed Paper, Annual Meeting, American Society of Mammalogists, Univ. of Washington-Seattle; Invited seminar, Univ. of Wisconsin-Madison.

### **Robert F. Inger**

Graduate Students Advised: Satie Airame, Univ. of Chicago.

### **Alfred F. Newton**

Graduate Students Advised: José Luis Navarrete-Heredia, Juan Márquez Luna, Universidad Nacional Autonoma de México (committee member, Ph.D.); Yih-Cheng Shiau, Univ. of Illinois at Chicago (committee member, M.S.). Informally: Rodney Hanley, Univ. of Kansas; Eugene Hall, Univ. of Nebraska; Nick Porch, Univ. of Colorado & Monash Univ.; Derek Sikes, Univ. of Connecticut, Storrs; John Grout, Univ. of Illinois at Chicago.

Trainees: Oliver Betz (German national science foundation post-doctoral fellow) (co-sponsor).

Seminars, Symposia, etc.: Invited speaker and participant, John Lawrence Celebration Symposium, Canberra, Australia.

### **Bruce D. Patterson**

Graduate Students Advised: Norbert Cordeiro, Doreen Covey, Matthew Dean, Roselis Mazurek, Oliver Pergams, Univ. of Illinois at Chicago; Alex Dehgan, Link Olson, Univ. of Chicago (Chair); John Ososky, Christopher Yahnke, Northern Illinois Univ.

Trainees: Jessica Amanza, Lucia Luna, and Paul Velasco, Universidad de San Marcos, Lima, Peru.

Courses: "Biogeography," Univ. of Chicago; "Studies in Evolutionary Biology," Univ. of Chicago.

Seminars, Symposia, etc.: Eugene, OR, Univ. of Oregon Department of Biology (seminar); Orlando, FL, American Type Culture Collection, Endangered Species Symposium (workshop); Bonn, Germany, IV International Symposium on Tropical Organisms (plenary address); Seattle, American Society of Mammalogists Annual Meeting (contributed paper); Nairobi, Kenya, National Museums of Kenya (seminar).

### **Alan Resetar**

Seminars, Symposia, etc.: 61<sup>st</sup> Annual Midwest Fish & Wildlife Conference.

### **Petra Sierwald**

Graduate Students Advised: Marius van der Merwe, Univ. of Illinois at Chicago.

Undergraduate Interns: Gregory Gurda, Univ. of Chicago.

High School Interns: Gregory Burks, St. Joseph's High School; Stephanie Kawka, Maine South High School; Ashley Macknica, Naperville North High School; Diana Sheffield, Willows Academy;

Damian Warshall, Brother Rice High School.

Seminars, Symposia, etc.: Univ. of Illinois at Chicago.

Other: 10-hour Science tutorial, "Geology A14," Serts Program at Northwestern Univ.

### **William T. Stanley**

Undergraduate Interns: Perry Lai, Hadjra Waheed, The School of the Art Institute; Danielle Neuhauser, Northland College.

Seminars, Symposia, etc.: Contributed paper (poster), American Society of Mammalogists, Seattle, WA.

### **Margaret K. Thayer**

Graduate Students Advised: José Luis Navarrete-Heredia, Universidad Nacional Autónoma de México (co-director of Ph.D. thesis); Yih-cheng Shiau, Univ. of Illinois at Chicago (M.S. committee member) .

Informally: Elizabeth Arias, Univ. of California, Davis (Ph.D. completed, 1999); Juan Márquez-Luna, Universidad Nacional Autónoma de México; Rodney Hanley, Univ. of Kansas; John Grout, Matt Dean, Marius van der Merwe, Univ. of Illinois at Chicago.

High School Interns: Gregory Burks, St. Joseph's High School; Stephanie Kawka, Maine South High School; Ashley Macknica, Naperville North High School; Diana Sheffield, Willows Academy; Damian Warshall, Brother Rice High School.

Trainees: Oliver Betz (German national science foundation post-doctoral fellow) (co-sponsor).

Other: Beetle lecture, Biodiversity Explorers and Bug Camp programs, Field Museum.

### **Janet R. Voight**

Graduate Students Advised: Amy C. Driskell, Univ. of Chicago.

Seminars, Symposia etc.: Madison, Society for the Study of Evolution; Pittsburgh, American Malacological Society; invited seminar, Texas Tech Univ., Lubbock Texas; Invited Seminar, Aquatic Conservation Training Program.

Other: Guest Lecture, Biogeography, Univ. of Chicago.

### **Harold K. Voris**

Graduate Students Advised: Satie Airame, Ana Carnaval, Jake Socha, Univ. of Chicago; Jacqueline Schlosser, Univ. of Illinois at Chicago; Bryan Stuart, North Carolina State Univ.; Anna Wong, Univ. of Malaysia Sarawak.

### **Jeffrey Walker**

Courses: "Comparative and Evolutionary Vertebrate Morphology," Univ. of Chicago; "Uniformity, Catastrophe, and the Meaning of Evolution," Northwestern University.

Seminars, Symposia, etc.: Invited presentation, Aurora College Aquatic Biology Seminar Series; invited presentation, Department of Biological Sciences, Florida State Univ.

### **Mark M. Westneat**

Graduate Students: Michael Alfaro, Brad Wright, Lisa Rosenberger, Jeff Janovetz, Nora Espinoza, Jake Socha, Univ. of Chicago.

Undergraduate Interns: Cinnamon Pace, Univ. of Chicago; Susan Ruggero, Northwestern Univ.

Courses: Biological Sciences 274. Comparative and Developmental Morphology of the Vertebrates, Univ. of Chicago.

### **David Willard**

Graduate Students Advised: Mary Hennen, Governor's State Univ.

Courses: African Tropical Biodiversity Program, Makerere Univ., Kampala Uganda.

Seminars, Symposia, etc.: Invited lecture, College of St. Mary's; invited lecture, College of DuPage; invited lecture, Loyola Univ.; specimen setup for Art Institute of Chicago illustration class.

### **Philip Willink**

Seminars, Symposia, etc.: Joint Meeting of Society for the Study of Evolution/Society of Systematic Biologists; American Society of Ichthyologists and Herpetologists.

## CENTER FOR CULTURAL UNDERSTANDING AND CHANGE

### **Madeleine Tudor**

Seminars, Symposia, etc.: Session organizer and delivered paper, Central States Anthropological Society annual meetings, Chicago, IL; presented paper, Society for Applied Anthropology annual meetings, Tucson, AZ; presentation to Rolling Meadows High School, Rolling Meadows, IL.

### **Alaka Wali**

(see Department of Anthropology)

## ENVIRONMENTAL AND CONSERVATION PROGRAMS

### **Carol Fialkowski**

Seminars, Symposia, etc.: Workshop Leader and Presenter, Illinois State Board of Education Workshop, Springfield, IL; Guest lecturer, Nicholas School of the Environment, Duke Univ.; Guest Lecturer, Environmental Policy and Education Symposium, Northwestern Univ.; Presenter, Eighth Cary Conference, Institute for Ecosystem Studies, Millbrook, NY; Presenter, North American Association for Environmental Educators Conference, Cincinnati, OH; Panel member, Association of Science and Technology Centers Annual Conference, Tampa, FL; Presenter, Museum of the Rockies Symposium, Bozeman, MT.

### **Robin Foster**

Graduate Students Advised: Manoel Pacheco, Univ. of Illinois at Chicago; Christina Martinez, Univ. of Illinois at Chicago; Laura Torres, Northeastern Illinois Univ..

Graduate Students Advised (informal): Nina Ingle, Cornell Univ.; Doug Yu, Harvard Univ.; Glenn Shephard, Univ. of California, Berkeley; Jaqueline Goerck, UMSL; Kathleen Lowrey, Univ. of Chicago.

Undergraduate Interns: Brenda Lin, Princeton Univ., Rapid Reference Collection; Jill Anderson, Brown Univ., Yasuni Forest Dynamics Project, Ecuador; Margaret Metz, Princeton Univ., Rapid Reference Collection, Yasuni and Zabalo/Cofan Projects, Ecuador; Gretchen Baker, Kenyon College, Yasuni and Zabalo/Cofan Projects.

Trainees: Conservation Training Consortium: Diana Alvira, Fundacion Puerto Rastrojo, Bogota, Colombia; Rolando Pérez, Smithsonian Tropical Research Institute, Panamá; Salomón Aguilar, Universidad de Panamá; Gabriela Nuñez, Universidad Agraria, La Molina, Perú; Rocio Rojas, Jaén, Cajamarca, Perú; Gloria Galiano, Instituto de Ciencias Naturales, Bogota, Colombia; Rodrigo Bernal, Instituto de Ciencias Naturales, Bogota, Colombia; Julio Morales, Universidad de San Carlos, Guatemala; Gorky Villa, Univ. Catolica de Ecuador, Quito; Hugo Mogollon, Univ. Catolica de Ecuador, Quito; Narel Paniagua, Herbario Nacional, La Paz, Bolivia; Julio Rojas, Univ. Amazonica de Pando, Bolivia; Roberto Aguinda, Centro Cofán de Zabalo, Sucumbios, Ecuador. Informal: Moises Cavero, Univ. La Molina, Peru; Gonzalo Llosa, Conservacion Internacional, Lima, Peru; Jorge Ventocilla, Smithsonian Trop. Res. Inst., Panama; Ana Maria Velasco, Univ. Catolica de Ecuador; German Carnavali, CICY, Mexico; Jose Pirani, Univ. Sao Paulo, Brasil.

Seminars, Symposia, etc.: Convocation speaker, post-graduate program, Centro de Investigaciones Cientificas de Yucatan, Merida, Mexico; book display booth, Congreso Colombiano de Botanica; lecture, Conservation Training Consortium; speaker, Kuna Symposium & Panel; lecture, Biodiversity Explorers interns, The Field Museum; symposium speaker, XVI International Botanical Congress, St. Louis.

### **Debra Moskovits**

Seminars, Symposia, etc.: Invited lecture, Univ. of Iowa; Invited speaker, Plenary session and workshop, Mexico City, Mexico; Invited speaker, Plenary session and workshop, Hawaii; Invited lecture, Vegetation Monitoring workshop, Chicago Wilderness; Poster, Society for Conservation Biology.

**Thomas S. Schulenberg**

Trainees: Augustus Asamoah, Ghana Wildlife Society; Oscar Gonzalez, Grupo Aves del Peru.

Seminars, Symposia, etc.: Poster presentation, American Ornithologists' Union; Conservation Training Consortium, Univ. of Illinois at Chicago.

**Jennifer Shopland**

Seminars, Symposia, etc.: Poster presentation, 1999 annual meeting of the Society for Conservation Biology, College Park, MD.

**Douglas F. Stotz**

Graduate Students Advised: Jacqueline Goerck, Univ. of Missouri, St. Louis; Bill Straussberger, Univ. of Illinois at Chicago; Gitogo Maina, Univ. of Illinois at Chicago; Jodi Sedlock, Univ. of Illinois at Chicago; Norbert Cordeiro, Univ. of Illinois at Chicago; Alexander Dehgan, Univ. of Chicago; Christina Bentz, Univ. of Chicago.

Course: "Conservation Biology," Northwestern Univ.; guest lecture in Biogeography, Univ. of Chicago.

**PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION**

**Jeremy J. Kirchman**

Courses: "Molecular Genetics at the Field Museum" (SERTS tutorial), Northwestern Univ.

Seminars, Symposia, etc.: Speaker, North American Ornithological Congress, Ithaca, NY.

## ACADEMIC AFFAIRS INTERNS AND TRAINEES, 1999

### HIGH SCHOOL INTERNS

**Biodiversity Explorers Interns:** Gregory Burks, St. Joseph High School, Westchester; Stephanie Kawka, Maine South High School, Park Ridge; Ashley Macknica, Naperville North High School, Naperville; Diana Sheffield, The Willows Academy, Des Plaines; Damian Warshall, Brother Rice High School, Chicago.

**Anthropology:** Brendan Steadman, New Trier High School; Mary-Christina Oxtoby, Univ. of Chicago Lab School; Derek Haas, Illinois Mathematics and Science Academy; Erica Griffin, Rich South.

**Geology:** Anjali DeSouza, Ithaca High School, Ithaca, NY; Ethan Pond, Frances Parker High School; Max Teller, Evanston Township High School.

**Zoology:** Kelly Bennett, Waukegan High; Anna Bohrer and Andrew Greenlee, Latin School; Antonio Guillen, Ancona School; Nishi Roothaan, Chicago Academy for the Arts; Zachary Yarling, Frances Parker High School

### UNDERGRADUATE STUDENT INTERNS

**Anthropology:** Alice Yao, Univ. of Chicago; Marlene McCabe, The School of the Art Institute of Chicago; Tressa Bidelman, Dan Corkill, Dan Schnepf, Linda Wild, Mark Baldrige, Sarah Murray, Univ. of Illinois at Chicago; Jennifer Kolnic, Beloit College; Jessica Westphal, DePaul Univ.; Rahul Oka, Lawrence Univ.

**Botany:** Erin E. Archer, Univ. of Chicago; Josh Crea, DePaul Univ.; Sarah Eaton, Univ. of Chicago; Hanson Ho, Purdue Univ., Indianapolis, Indiana; Gretchen Moeser, Univ. of Chicago; Molly Whedbee, Reed College (Portland, OR); Judy Wu, Univ. of Chicago; Annie A. Yovovich, Kenyon College (Gambier, OH).

**Geology:** Ian Brown, Maggie Hart, John Tometich, James Walliser (preparators, Sue Project), California State Univ.; Noel Heim, Johnny Hsu, Gretchen Moeser, Agatha Sajewicz, Univ. of Chicago; Anne Kehoe, Malcolm X College.

**Zoology:** Perry Lai, The School of the Art Institute of Chicago; Erin Loomis, Univ. of Chicago; Cinnamon Pace, Univ. of Chicago; Cynthia Rivera, Univ. of Illinois; Susan Ruggero, Northwestern Univ.; Hajra Waheed, Art Institute of Chicago.

**Center for Cultural Understanding and Change:** Veronica Davidov, Oberlin College; Francoise McGinnis, Robert Morris College; Gretchen Fox, Northwestern Univ.; Ian Kerrigan, Northwestern Univ.; Kathleen Sheridan, Northwestern Univ.; Jessica Wickens, Univ. of Chicago; Andrea Carey, Univ. of Chicago; Kristin Theil, Univ. of Iowa; Jennifer Johnson, Carleton College; Laura Ferretti, Pennsylvania State Univ.; Hubert Izienicki, Loyola University.

**Environmental and Conservation Programs:** Jill Anderson, Brown University; Gabrielle Dean, Smith College; Lisa Katzman, Purdue Univ.; Brenda Lin, Princeton Univ.; Danielle Neuhauser, Northland College; Mario Popish, Evergreen State College; Jamie Stewart, Northland College.

**Field Museum Scholarship Program Interns:** Leah Berkman, Univ. of California at Berkeley (Zoology/Birds); Jennifer Kolnic, Beloit College, Beloit, Wisconsin (Anthropology); Katherine Megquier, Wellesley College (Geology/Fossil Fishes); Timothy Rieth, Univ. of Hawai'i at Manoa (Anthropology); Alexei Rivera, Univ. of Chicago (Geology/Fossil Invertebrates); Susan Ruggero, Northwestern Univ. (Zoology/Fishes).

**National Science Foundation Undergraduate Interns:** Tariq Farooqui, North Park College (Zoology); Mary Ellen Ward, Univ. of Illinois at Chicago (Geology).

**Prince Scholarship Fund Interns:** Mario McHarris, Univ. of Illinois; Rosa Cabrera, Univ. of Illinois at Chicago; Mary Futrell, Univ. of Illinois at Chicago; Katie Meyer, Indiana Univ., (all CCUC); Emily Walker, Univ. of Chicago (Zoology); Anjali DeSouza, Ithaca High School, Ithaca, NY. (Geology); Amy Gowe, Univ. of Illinois at Chicago; Ankur Vaghani, Univ. of Illinois at Chicago; Harit Bhatt, Univ. of Illinois at Chicago (all Botany).

**Field Museum Native American Intern Program, Anthropology Department:** John Beaver, Univ. of Illinois at Chicago; Nodwesi Red Bear, The School of the Art Institute.

**Paul S. Martin Project Interns, Anthropology:** Christine Derkacy, Univ. of Illinois at Chicago; Adrienne Watson, Beloit College; Randi Wolf, graduate of Colby College; Erin Kimmerle, Univ. of Tennessee; Ed Mahar, Univ. of Illinois at Chicago; Mary Vermillion, Univ. of Illinois at Chicago.

**Web Projects:** Rebecca Reeves, The School of the Art Institute (undergraduate); Trent Richardson, Univ. of Illinois at Chicago (graduate).

## GRADUATE STUDENT INTERNS

**Botany:** Milena Maver, Univ. of Geneva, Switzerland.

**Geology:** Kimberly Koverman, Univ. of Illinois at Chicago; Karen Sears, Univ. of Chicago; Robin Whatley, Univ. of California, Santa Barbara

**Center for Cultural Understanding and Change:** Victoria Hegner, Humboldt Univ., Berlin; Christine Dunford, Univ. of Illinois at Chicago; Jeffery Bennett, Univ. of Chicago; Cecelia Hayes, Northwestern Univ.; Wenona Rymond-Richmond, Univ. of Chicago; Rebecca Burwell, Loyola Univ.

**Environmental and Conservation Programs:** Laura Barghusen, Univ. of Illinois, Chicago; Christina Bentz, Univ. of Chicago; Nina Ingle, Cornell Univ., Ithaca, NY; Rosélis Mazurek, Univ. of Illinois, Chicago; John Weathers, Chicago-Kent College of Law.

## TRAINEES

**Rapid Reference Trainees:** Salomón Aguilar, Univ. de Panamá; Diana Alvira, Fundación Puerto Rastrojo, Bogota, Colombia; Julio Morales, Universidad de San Carlos, Guatemala; Gabriela Nuñez, Univ. Agraria, La Molina, Perú; Rolando Pérez, Smithsonian Tropical Research Institute, Panamá; Rocio Rojas, Jaén, Cajamarca, Perú.

**Conservation Training Consortium:** Diana Alvira, Fundación Puerto Rastrojo, Bogota, Colombia; Augustus Asamaoh, Ghana Wildlife Society, Accra, Ghana; Oscar Gonzalez, Grupo Aves del Peru, Lima, Peru.

**Tropical Forest Dynamics Project, Yasuni, Ecuador:** Hugo Mogollon, Univ. Católica de Ecuador, Quito; Gorky Villa, Univ. Católica de Ecuador, Quito.

**Biological Inventories Project/Rapid Inventory of Proposed Tahuamanu Reserve, Bolivia:** Roberto Aguinda, Centro Cofán de Zabalo, Sucumbios, Ecuador (Inventory of Cofán Plant Resources, Rio Aguarico, Ecuador); Narel Paniagua, Herbario Nacional, La Paz, Bolivia (Rapid inventory of proposed Tahuamanu Reserve, Bolivia).

## RESIDENT GRADUATE STUDENTS, 1999

### DEPARTMENT OF ANTHROPOLOGY

National University of Singapore  
Michael Flecker

University of Chicago  
Magnus Fiskesjo

University of Florida  
Susan Swales

University of Illinois at Chicago  
Johanna Brown, Bess Celio, Marisa Fontana,  
Alexander Hamill, Michael Hudson, Thomas  
Jackman, Mark Johnston, Ed Mahar, Roselis  
Mazurek, Christopher Needs, Sharon Penniston,  
Samantha Peres, Ellen Quinn, Iman Saca, Iman  
Shehadi, Mary Vermillion, Laura Waterbury,  
Patricia Williams, David Wright.

University of Sao Paulo  
Maura Imazio da Silveira

University of Tennessee  
Erin Kimmerle

### DEPARTMENT OF BOTANY

Islamic University, Mbale, Uganda  
Saidu Maishanu

University of Chicago  
Jutta Buschbom, John Paul Schmit

University of Illinois at Chicago  
James Graham, Frank A. Hamill, Mark Johnston,  
Marian Kadushin, Amanda Koch, Tatiana Lobo,  
Andrew Miller, Valérie Reeb

### 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  
Chris Yahnke

University of Chicago  
Satie Airame, Michael Alfaro, F. Keith  
Barker, Richard Blob, Matt Carrano, Ana  
Carnaval, Roberto Cipriani, Rachel Collin,  
Alex Dehgan, Amy Driskell, Jeff Janovetz,  
Rowan Lockwood, S. Kathleen Lyons, Paul  
Magwene, Melissa Cogan-Morales, Link  
Olson, Rebecca Price, Lisa Rosenberger, Jake  
Socha, K. Rebecca Thomas, Joseph Walsh,  
Brad Wright

University of Illinois at Chicago  
Norbert Cordeiro, Matthew Dean, Jodi  
Sedlock, Yih-Cheng Shiau, Jacqueline  
Schlosser, Jose Tello, Marius van der Merwe,  
Ramlah Zainudin

University of Missouri – St. Louis  
Jaqueline Goerck

### ENVIRONMENTAL AND CONSERVATION PROGRAMS

Northeastern Illinois University  
Laura Torres

University of Illinois at Chicago  
Christina Martinez, Manoel Pacheco



## ACADEMIC AFFAIRS VOLUNTEERS, 1999

### DEPARTMENT OF ANTHROPOLOGY

Rob Adams (Paul S. Martin Project), Tyler Beebe (Mesoamerican Archaeology), Joyce Bondra (Paul S. Martin Project), Valerie Brizuela (Collections Management), Garland Brown (Collections Management), Janine Chapuis (Collections Management), Aloysius Chen (Asian Ethnology & Archaeology), Jack Chiu (Asian Ethnology and Archaeology), Sarah Coleman (Registrar), Dan Corkill (Paul S. Martin Project), Connie Crane (North American Ethnology & Archaeology), Richard DeKoven (Collections Management), Christine DerKacy (Paul S. Martin Project), Robert Donnelley (Classical Archaeology), Paul DuBrow (Asian Ethnology & Archaeology), Mathew Ebert (African Archaeology), Peter Gayford (African Ethnology & Archaeology), David Graham (Paul S. Martin Project), Taeko Hashimoto (Asian Anthropology), Warren Haskins (History of the Department of Anthropology), Ilse Henley (Asian Anthropology), Jeremy Herrick (Asian Ethnology & Archaeology), Melinda Hickman (Paul S. Martin Project), Zelda Honor (Registrar), Harold Honor (Registrar), Belen Jaquez (Paul S. Martin Project), Nadia Ai Kahn (Collections Management), John Keating (African Archaeology), Chika Kubota (Asian Archaeology and Ethnology), Hillary Leonard (New Guinea Research Program), Lenore Levit (Asian Ethnology and Archaeology, Registrar), Gilbert Levy (Asian Archaeology and Ethnology), Robert T. Lewis (Paul S. Martin Project), Daniel Malone (Paul S. Martin Project, African Archaeology and Ethnology), Daniel Maratto (Collections Management), Joseph Marlin (New Guinea Research Program, Office Management), Jack MacDonald (New Guinea Research Program), Kristin Meese (Anthropology), Carolyn Moore (Asian Ethnology and Archaeology), Reiko Mrozik (Asian Anthropology), Motoko Naganawa (Asian Ethnology & Archaeology), Judy Odland (African Ethnology and Archaeology), Rahul Oka (African Archaeology), Miho Ono (Asian Ethnology and Archaeology), Christopher Philipp (African Ethnomusicology), Dorteia Phillipps-Cruz (Collections Management), Barbara Russi (Ethnomusicology), Jeanne Sack (Collections Management), Akiko Saito (Asian Ethnology & Archaeology), Maki Sasaki (Asian Ethnology and Archaeology), Esther Schechter (Oceanic Archaeozoology and Ethnology), Richard J. Schlott (African Ethnology & Archaeology), Daniel Schnepf (North American Anthropology), Brooke Silkey (Paul S. Martin Project), Malcolm Smith (Asian Ethnology & Archaeology), Lisa Stringer (African Ethnology & Archaeology), Mika Suga (Asian Anthropology), Jennifer Tobin (African Ethnology & Archaeology), Ika Tomaschewsky (Paul S. Martin Project), Chihiro Torikai (Asian Ethnology and Archaeology), Hsi-tsin Taiang (Asian Ethnology and Archaeology), Jean Vondriska (Asian Ethnology & Archaeology), Randi Wolf (Paul S. Martin Project), Nathaniel Wilson (Collections Management), Claire Yasher (Mesoamerican Archaeology), Edward Yastrow (Prehistoric Archaeology).

### DEPARTMENT OF BOTANY

Alison Ash (Bryology), Andrew Ash (Lichenology), Marshall Ash (Bryology), Helen Bieser (Mycology), Lyn Bollmeyer (Lichenology), Rachel Burgess (Mycology), Molly Bryant (Bryology), Elizabeth Engel (Bryology), Mary Feay (Mycology), Josie Garcia (Bryology), Emily Grimes (Bryology), Karen Kaempf (Vascular Plants), Dianne Luhmann (Pteridophytes), Claire Maché (Bryology), Samuel Mayo (Bryology), Alice Pilar (Mycology), Carol Reganhardt (Bryology), Gira Vashi (Lichenology), Jennifer Winther (Mycology), Cathy Young (Bryology), Patti Zatarain (Bryology).

### DEPARTMENT OF GEOLOGY

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), Irv Diamond (Meteoritics), Denise Edelson (Vertebrate Paleontology), Fred Fortman (Vertebrate Paleontology), Michael Hershkovitz (Fossil Mammals), Linda Hills (Vertebrate Paleontology), 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 (Vertebrate Paleontology), Karen Nordquist (Vertebrate Paleontology), Kate Remmes (Vertebrate Paleontology), Michael Rice (Vertebrate Paleontology), Pauline Rossen (Paleobotany), Angella Sherer (Fossil Fishes), James Storey (Vertebrate Paleontology), Hedy Turnbull (Vertebrate Paleontology), Warren Valsa (Fossil Mammals).

#### **DEPARTMENT OF ZOOLOGY**

Tom Anton (Amphibians and Reptiles), Kelly Bennett (Fishes), Sean Bober (Mammals), Renee Buecker (Insects), Peter Buol (Birds), Sidney Camras (Insects), Koel Chatterjee (Insects), Cynthia Clendenin (Mammals), Julie Coan (Insects), Maria Colavincenzo (Mammals), Melissa Cook (Mammals), Meyer Cornis (Insects), Jack Degner (Mammals), Terry Demos (Mammals), Meredith Dudley (Invertebrates), Brian Duracka (Amphibians and Reptiles), Stanley Dvorak (Invertebrates), M. Alison Ebert (Mammals), Michelle Eji (Mammals), Sarah Fanning (Mammals), Sheila Ferrera (Fishes), Harvey Golden (Mammals), Harrison Greene (Insects), Emily Greenland (Mammals), Andrew Greenlee (Insects), 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), Lisa Kanellos (Amphibians and Reptiles), Edwin Kapus (Invertebrates), Dorothy Karall (Invertebrates), Joanne Kozuchowski (Mammals), Sarah Lansing (Mammals), Irene Lerner (Invertebrates), Armand Littman (Invertebrates), Erin Loomis (Amphibians and Reptiles), James Louderman (Insects), Teresa Mayfield (Amphibians and Reptiles), Kiyoshi Mino (Fishes), Elizabeth Muir (Mammals), Brian O'Shea (Birds), Michael Owney (Mammals), Cinnamon Pace (Fishes), Stephen Parshall (Insects), Jason Petrella (Birds), Dave Pollock (Insects), Zeus Preckwinckle (Insects), James Pulizzi (Amphibians and Reptiles), Ian Regino (Insects), Sheila Reynolds (Mammals), Cynthia Rivera (Invertebrates), Lizzi Roothaan (Insects), Joshua Rosenau (Mammals), Nina Sandlin (Insects), Karen Sandrick (Amphibians and Reptiles), Jacqueline Schlosser (Amphibians and Reptiles), Andrea Schnitzer (Mammals), Sera Stack (Amphibians and Reptiles), Peter Scharbach (Insects), Julie Stumpf (Mammals), Brian Traughber (Insects), Frances Tung (Mammals), Sandy Van Tilburg (Birds), Christine Vittoe (Invertebrates), David Walker (Invertebrates), Laura Zaidenberg (Mammals), Joseph Zich (Invertebrates), Jane Zimmerman (Insects).

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

Rhett Hirko, Susanna Boesch, Gretchen Fox.

#### **ENVIRONMENTAL AND CONSERVATION PROGRAMS**

William Cleveland (Nature's Pantry), Peter Cruickshank (Peruvian bird database), Amy Muran Felton (Rainforest Products), Marc Gamble (Nature's Pantry web site), Pedro Gonzalez (Earth Force), Leslie Major (French-English translations of bird literature), Mary Napier (Nature's Pantry), Kateri Nelis (Earth Force).

#### **COMPUTER SERVICES**

Wei Xu

#### **LIBRARY**

Peter Fortsas, Robert Gowland, Kasia Kipta, China Oughton, Marjorie Pannell, Martha Singer, Jack Pillar.

## HONORARY APPOINTMENTS, 1999

### DEPARTMENT OF ANTHROPOLOGY

#### Adjunct Curators

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  
Sibel Barut Kusimba, Ph.D., African Archaeology  
Linda Nicholas, M.A., MesoAmerican Archaeology  
Joel Palka, Ph.D., 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 L. Welsch, Ph.D., Oceania  
Sloan Williams, Ph.D., South American Bioarchaeology

#### Associates

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  
John M. MacDonald, M.S., Oceania  
Carolyn Moore, B.A., Asian Material Culture  
Ellen FitzSimmons Steinberg, M.A., South American Archaeology, Physical Anthropology  
Edward Yastrow, B.A., Human Origins.  
Frank Yurco, M.A., Egyptology

#### Research Associates

Babatunde Abgaje-Williams, Ph.D., African Archaeology and Ethnology  
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  
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  
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  
Ruth Shady, Ph.D., Old Peru Archaeology  
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**

William A. Alverson, Ph.D., Vascular Plants  
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  
John E. Braggins, Ph.D., Bryophytes  
Julieta Carranza, Ph.D., Mycology  
Paul A. Colinvaux, Ph.D., Paleoecology  
William T. Crowe, Ph.D.  
Paulo E. De Oliveira, Ph.D., Paleoecology  
Jesús García 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  
Jiang-Chun Wei, Ph.D., Mycology  
Kuswata Kartawinata, Ph.D., Vascular Plants  
Timothy J. Killeen, Ph.D., Vascular Plants  
Scott B. Kroken, Ph.D., Mycology/Lichenology  
Jorgé Gómez Laurito, B.S., Vascular Plants  
Blanca Leon, Ph.D., Pteridology  
David P. Lewis, M.S., Mycology  
John F. Lussenhop, Ph.D., 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  
Harald Schneider, Ph.D., Pteridophytes  
Rudolf M. Schuster, Ph.D., Bryology  
Alan R. Smith, Ph.D., Pteridophytes  
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**

Doris Nitecki, M.A., Fossil Invertebrates

### **Research Associates**

William L. Abler, Ph.D., Fossil Vertebrates  
Edgar Allin, Ph.D., Fossil Vertebrates  
David Bardack, Ph.D., Fossil Fishes

William Bemis, Ph.D., Fossil Vertebrates  
Gregory A. Buckley, Ph.D., Fossil Vertebrates  
Matthew T. Carrano, 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  
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

### 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  
Barbara A. Harney, Mammal Ecology  
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  
Zeus 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  
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 Uzzurum, 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  
John O'Neill, Ph.D., Neotropical Birds  
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  
James Pokines, Ph.D., Taphonomy-Archeology of Mammal Bones  
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  
Justine Ray, Ph.D., Central African Mammals  
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  
Luis Ruedas, Ph.D., Southeast Asian Mammals  
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  
Sergio Solari, M.S., Mammals of Peru  
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  
Joseph Walsh, Ph.D., Mammalian Systematics  
Richard Wassersug, Ph.D., Tadpole Research  
John Wible, Ph.D., Higher Level Taxonomy of Mammals  
Glen Woolfenden, Ph.D., Florida Scrub Jay Behavior  
Chris Yahke, Ph.D., Neotropical Mammal  
Anne Yoder, Ph.D., Primate Evolution  
John Yunker, Ph.D., Mammals of Chicago area  
Ermi Zhao, Ph.D., Chinese Herpetofauna, Systematics



COLLECTIONS 1

COLLECTIONS 2

COLLECTIONS 3

COLLECTIONS 4

COLLECTIONS 5

## 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 (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 is there to advise and assist. Other activities include consulting with departments in the purchase of new hardware, software and related items. We manage vendor relationships, help with purchasing, and shop for effective price, service and delivery. CS is frequently called upon to redistribute existing equipment so that it is used more effectively. The department handles most repair and upgrade requests, fixing or replacing problem computers. The important functions of backing up servers in a timely fashion, server system and network security are also CS responsibilities.

In a broader perspective, as computer technology is integrated into all aspects of Museum activities, Computer Services, finds itself as a bridge, or enabling department. More and more, we find ourselves in a pivotal roll helping the Museum staff realize their goals. We stand between what the Museum needs to do to be the Museum that we know we can be, and the Museum that we are. The many activities outlined below are demonstrative of this point of view.

### **Departmental Highlights**

During 1999 several new key server/software systems were installed. Work on these systems involved CS and other departmental staffs frequently working together with consultants. Installation of these systems not only met the need for improving the Museum's capabilities in this area, but also as an added benefit, obviating Y2K issues.

In Finance, a new Compaq Proliant server running the MS-Windows NT operating system was installed to run Lawson financial software. The system also uses Oracle database software and Crystal Reports. Later in the year, as a separate project, the Lawson Human Resources module was installed which also incorporated payroll. The effect of this work was to unify, and thereby, simplify functions heretofore processed on three different computer systems. Tests have shown that historical financial data can be converted to Excel spreadsheet format, after which the MicroVAX that was used to support financial activities will be retired.

A similar strategy was employed with the Paciolan software used by Visitor Services, Special Events and Education. Paciolan software unified admissions and group scheduling in these areas. This software runs on a single IBM RS 6000 server running the AIX operating system. In addition to the server, CS staff installed fifteen new client point of sale systems at the North, South, West doors and for the Underground Adventure and Cartier exhibits. The Novell server that was used to support Visitor Services and the Vista software used for group scheduling were discontinued.

In the spring of last year we converted to the new version of Raiser's Edge software from Blackbaud. This work entailed installing a new Windows NT server and converting data from the previous version of Raiser's Edge software, which was not Y2K compliant. The MicroVAX that previously supported this function was retired. Historical data was transferred to two PCs in Development and Membership.

In Special Events, Zeta-fax server software was installed and upgraded to help staff cope with the high volume of faxes sent and received. The software was upgraded to a Y2K compliant version in the fall of the year.

For the Museum stores, servers were added and existing system hardware and software were upgraded late in the year. We also instituted the new Dig It! Store for **Underground Adventure** and prepared for the installation for the new Museum store remote location in the United Terminal of O'Hare Airport.

Harris Loan Center systems and software were upgraded to MS-Access not only to make the systems Y2K compliant, but also to add new features to make the management of loans more efficient.

Late in 1999 we also took the opportunity to install a new Museum-wide e-mail server. This server runs Redhat Linux 6.1 and has additional features, power, and capacity to keep pace with the increasing use of e-mail. The system also doubles as the Museum's name server for the Internet. The old DEC system 5100, e-mail server was not Y2K compliant and was shut down.

In December, CS staff began the first ever attempt to standardize Museum desktop systems on MS-Office 2000 Professional Software Suite by installing it on all Windows PCs. The effect of this effort was to obviate any Y2K issues on commonly used software in the Museum and to facilitate better, more reliable document exchange throughout the Museum. We hope to complete installation of MS-Office on all of the Museum's Macintosh computers early in the year.

To further safeguard Museum computers, CS staff installed Norton Anti-virus on about half of the Museum computers that exhibited the greatest risk. We hope to complete this task in the coming year, as funds become available.

The DEC Prioris 5133DP server that is used for collections data was upgraded to Y2K compliant version of SCO Unixware 7.1 and C/base database software 4.3. Collections actively managed on this system include Birds, Mammals, Geology (part) and Botany loans.

Because of increasing demand in performance and capacity, the year 1999 also saw the installation of a new Museum Windows NT web server ([www.fmnh.org](http://www.fmnh.org)). The old web server, running the same operating system, was left in service as a web development server.

In 1999 we installed a new Windows NT server for the Division of Amphibians and Reptiles. Subsequently, with the aid and cooperation of the department's staff, we converted the collection management application that had run on c/Base to MS-Access. The resulting system was one that provided many new features and capabilities that gave curators and staff more control over entering, modifying and reporting on their collection data. Late in the year, CS staff completed the development of a web interface to make selected collection data available over the Internet. When this feature is installed on the main web server it will satisfy the last of the terms of the NSF collection grant to Harold Voris.

Similarly, CS staff also completed a Web interface for collections data access under the terms of Jonathan Haas' grant to computerize data for the Paul S. Martin Collection. We plan to provide web access to this data early in the year. Associated with this project is a Windows NT server used to store various associated images.

Also during the year, computer services staff installed a Windows NT server and Web based software for logging of data collected about birds under the direction of the Department of Environmental and Conservation Programs in the Museum. Work on a Web interface for this system continues.

Another milestone for 1999 was the installation of the first leg of the Museum's fiber-optic backbone that runs between the second and ground floors anchored by Cisco switches at each end. Addition of this segment greatly improved the reliability, manageability and performance of the Museum network. Further expansion of the backbone is slated for next year to keep abreast of the increasing emphasis on computer related technologies in Museum programs, exhibits and web related activities.

Departments continued replacing older 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

In the summer of this year, Tim Krauskopf, Head of Information Services, left Museum employment, to be replaced by Scott Marks Jr., a Museum Trustee, who generously agreed to act as the Museum's CIO until a suitable candidate could be found.

Computer Services Manager: James W. Koeppel, 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. Jim 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. Peter spent considerable time facilitating the conversion to the new Lawson Human Resources software in the last half of the year.

Computer Systems Specialist: Neil Young, B.S. Anthropology. Duties include system management, administration and network management, and user support on MS-Windows NT servers. Provides basic hardware and software support on Compaq Proliant 5500 used by Finance and Human Resources. All year Neil was heavily involved with the conversion from Timeline to Lawson system and software. Later in the year he lent his expertise in integrating the Lawson Human Resources module into the Museum's financial system. He was also responsible for installation of new versions, and optimizing the Zeta-Fax software used by Special Events and was responsible for the new calendar system used throughout the Museum.

Computer Systems Specialist: Rayfield Drake, A.S. Electronics/Computers. Duties in the past year have been diverse. He worked on a number of projects including: (a) lead roles in installation and support of the Paciolan and Lode Data System client workstations, (b) design and development of the GreenSheets information (the means by which staff coordinate activities in support of Museum events) on the Intranet server, (c) updating and re-coding the Invertebrates web page and database, (d) setup of the new Museum web server, installation and setup of the Museum's DHCP server which automatically assigns internal IP network address, and (e) setup and configure of the Facilities and Anthropology imaging servers. Additionally he also responds to user trouble reports, diagnoses problems, makes minor and major repairs of components and provides assistance with user training in the use of computer resources, and other projects as assigned.

Computer Systems Specialist: Gregory Kotulski. Duties include hardware and software support, installation, maintenance, problem solving, and network connections for Museum PCs. Greg has been instrumental in the transition of data from the old to the new financial system. He also responds to user trouble reports, diagnoses problems, makes minor repairs of components and provides assistance to staff in the use of computer resources.

1999 brought three new staff members and a volunteer, expanding and enhancing the CS department's capabilities.

Computer Systems Specialist: Andy Chan, B.A. Economics. Andy is extremely versatile in his activities which include primary responsibility for Apple Macintosh systems and software in the Museum. He is equally adept with MS Windows PCs and servers. He has participated in the installation and support of the Paciolan and Lodes Data systems. He also has worked to make collection data available on the Museum web server for Amphibians and Reptiles and Anthropology's Paul S. Martin collection. He also performs routine duties of responding to user trouble reports, diagnosing problems, makes minor and major repairs of components and providing assistance with user training in the use of computer resources and other projects as assigned.



Scientific Applications Database Developer: Erica Bishop, B.A. Biology. Erica joined the department in December. Her responsibilities will be primarily in the development and integration of the Museum's collection databases and making these data available on the Internet in collaboration with curators, collection managers and web developers.

Computer Systems Assistant: Jack Chiu, B.A. History. Jack began as a volunteer in Anthropology, was originally hired to help with the Y2K computer survey, but stayed on to perform many of the routine tasks that are required of the department, including installation of new equipment and software. He also responds to user problem reports and performs many other tasks as assigned.

Computer Services Volunteer: Wei Xu. Wei is working on a B.S. in MIS. He assists other staff members with the many tasks that they perform.

### **Summary of The Field Museum's Computing Environment**

Principal systems that are part of The Field Museum network and a brief description of what they do follows:

1. Pentium firewall running Elron Firewall Manager 2.5 and Network address translation. This system protects the Museum systems from unauthorized Internet access. Address translation allows The Museum to use class A internal IP addressing.
2. Pentium MS Windows NT 4.0 server for internal DHCP and name services. This system dynamically assigns IP addresses to PCs from the available Class A address pool and locates computers on the network by name.
3. Pentium Server running Redhat Linux 6.1 operating system. This system is newly installed and also functions as the Museum's external name server for the Internet.
4. DECsystem 5100 running the RISC Ultrix 4.3 operating system. This system previously functioned as the Museum's e-mail and Internet name server; it's functions have been replaced with the system described above. It will be retired early in 2000.
5. Compaq Proliant 5500 Windows NT 4.0 server for Financial Services. System runs Lawson 7.08 financial, human resources and payroll software in combination with Oracle 8.0.5 and Crystal Reports 7.0.
6. DEC MicroVAX 3100/20 runs the VMS 6.1 operating system. A multi-user system that previously supported the Museum's Timeline financial operations. It functions now only for historical financial data. It will be retired early in 2000 as we move the data to Excel formats.
7. IBM RS/6000 AIX 4.3 server for Museum ticketing. This system supports Paciolan Admissions, ticketing and group scheduling software. It replaced a Novell 4.1 server that has been retired from service.
8. DEC Prioris HX 5133DP Server running SCO UnixWare 7.1. This system is principally used for research and collection management activities. C/base 4.3, a commercial 4GL relational database software product, is used to manage collection related information for Botany, Geology and Zoology (specifically, Divisions of Birds, and Mammals).
9. Sun SPARCclassic runs Solaris (Unix) 2.x operating system. This system is used principally as a gopher client/server in the Division of Fishes. It is connected to the Museum network for access to the Internet. This system will be retired in 2000 after we have converted its functions to web server.

10. Pentium Windows NT 4.0 server. Used as the Museum's payroll server. It runs ADP's Windows payroll software. This system will be retired with the last day of 1999 when we switch to the new Lawson Payroll system.
11. Pentium Windows NT 4.0 server. Used by Public Relations; Microsoft Office and Bacon software for mailing lists are the principal application software packages running on this system.
12. Pentium Windows NT 4.0 server. This system is the main web server for public access ([www.fmnh.org](http://www.fmnh.org)); it runs Internet information server 4.0.
13. Pentium Windows NT 4.0 server. Development server for the main webserver mentioned above.
14. Pentium Windows NT 4.0 server. This system is the Intranet server for the Museum that is designed only for use by Museum staff; it uses Internet information server 4.0. The system also used for file sharing.
15. DEC Prioris HX 6200DP server running Windows NT 4.0 Server. This system runs Paradox database software in support of the Divisions of Invertebrates and Insects.
16. Pentium Windows NT 4.0 server is used to support the collection management needs of the Department of Anthropology. FileMaker Pro 4.0 is used for the collection database.
17. Pentium Windows NT server is being tested for collection management activities of the Division of Amphibians and Reptiles using MS-Access.
18. Novell 4.1 LAN. It supports MUSE application software for collections management used by the Division of Fishes.
19. Pentium Windows NT 4.0 server. It is used by Special Events to run customized software for scheduling events and file sharing of WordPerfect and Microsoft Office.
20. Pentium Windows NT 4.0 server for Security. System is used for Security Applications and departmental file sharing. It replaced a Novell 3.12 server previously used by the department.
21. Pentium Windows NT 4.0 server for Facilities Planning and Operations. System is used for applications and departmental file sharing.
22. Apple Macintosh Server is being developed for Geology's collection management activities. FileMaker Pro 4.0 is the database software of choice.
23. Pentium Windows NT 4.0 server. Main Store system is used to manage the Museum's point-of-sale activities. It uses custom software provided by Lode Data Systems and depends on data provided to it by satellite servers for comprehensive data on all store sales (see 24- 27, below).
24. Pentium Windows NT 4.0 server. Children's Store system.
25. Pentium Windows NT 4.0 server. Dig It! Store (**Underground Adventure**).
26. Pentium Windows NT 4.0 server. Dino Store (**Life Over Time**).
27. Pentium Windows NT 4.0 server. O'Hare Store.
28. Windows 98 server. ICVERIFY server for credit card sales authorization in the Main Store.
29. MS Windows NT 4.0 server running a Windows based version of Raiser's Edge from BlackBaud. Software is used to manage fund raising and Membership activities in Institutional

Advancement. The DEC MicroVAX 3100/10 previously supporting these activities was retired in the spring of the year.

30. MS Windows NT 4.0 server. The server is used for web based logging of data collected about birds sponsored by the department of Environmental Conservation Biology in the Museum.
31. MS Windows NT 4.0 server. The system was acquired through an NIH grant to Jonathan Haas for work related to the Paul S. Martin collection. It is used to store images of related anthropological artifacts.
32. The Library has two OCLC terminals supported by a dedicated line and multiplexer.
33. High-Performance Computing Cluster and other associated systems. Acquired through a grant to Kathleen Pryer, Francios Lutzoni and Shannon Hackett, these systems were installed and administered by Jennifer Steinbachs, the Computational Biologist in charge of the project. The purpose of the systems are for systematics research (cb.fmnh.org).

### **Desktop Systems**

In addition to these larger systems, Field Museum has more than 600 desktop PCs and of these, approximately 200 are Apple Macintosh PCs. There are an estimated 400 printers of various kinds being used in the Museum in stand-alone and shared modes. Many systems have attached peripheral devices, such as flatbed and side scanners, tape Zip and Jazz drives. These systems use a variety of software, including MS-Office, Lotus SmartSuite, WordPerfect Office, Photoshop, Eudora, Pagemaker, and many more.

### **Museum Network**

Most of these systems are connected to the Museum network via category 5 (10-base-T) cables and thence to unmanaged hubs. The hubs in turn are connected to a thickwire (10-base-2) or thinwire (10-base-2) backbone and a collection of repeaters and switched hubs. In the spring of 1999 we installed the first leg of a fiber-optic network with 48 multi-mode fiber strands connecting the second floor Computer Services offices and the Administrative offices on the ground floor. Cisco Catalyst 5505 and 2924 switched hubs were installed to expand backbone bandwidth, segment the network and allow better management of the Museums network related activities.

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. In the past year many offices were remodeled and the CS staff were frequently called upon to move equipment and re-establish network connections.

We support a T1 link (1.5Mb/sec) to the Internet through a contract with Intermedia Digex using a Cisco 2524 combination CSU/DSU and router.

### **Other Equipment**

In addition, there are approximately 10 dumb ASCII terminals connected principally to the Prioris server and Microvax 3100/20 systems. We expect have phased out all of these terminals by next year.

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. 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 1,000 museums, societies, academies, and other organizations worldwide brings to the Library nearly 2,500 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 sixteenth to the

eighteenth centuries on the subjects of mining, mineralogy, gemology, alchemy, technology and general 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.

The Rare Book Room was the site of numerous tours during the year as well as many informal gatherings. A number of Museum adult education courses held 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.

The Friends of The Field Museum Library continued to expand their support of Library programs during the year. The Friends spearheaded a strategic plan for the Library which resulted in the creation of a Library General Endowment with an initial anonymous gift, and the commitment to create a gallery in the public Museum for continuous exhibitions from the Library's rare book and special collections. The Friends also created new categories of membership that have brought an increase in donations to support the Library and by year's end had received their first Life Membership enrollment. With their significant gift, Friends members Mr. and Mrs. Theodore W. Van Zelst established The Louann Hurter Van Zelst Purchase Fund to support development of rare book and special collections.

The Friends-sponsored image licensing program brought two new projects to fruition. The Museum's year 2000 calendar presents original ornithological illustrations and prints selected principally from the Edward Ayer Ornithology Collection. The calendar includes an offer to Museum members for purchase of reproductions of all the images included. November brought the debut of "Audubon's Fifty Best: The Oppenheimer Field Museum Edition," a selection of fifty of Audubon's finest bird prints from the Library's Mary W. Runnells copy of *The Birds of America*. The fifty digitally-produced images will be issued over two years in five groups of ten prints each, and limited to 150 numbered and signed copies. Available exclusively through Kenyon Oppenheimer gallery, the prints are offered as a complete set by subscription or as individual prints. Since their appearance there is growing opinion that these prints are the best full-size reproductions of Audubon's work yet published.

In December the Library received a major gift from Charles W. Palmer and family: John James Audubon's original manuscript journal for the year 1826, documenting his pivotal journey to England to seek publication of his bird paintings. The 1826 journal is the most important surviving manuscript from Audubon's hand and has been published only in an inadequate and incomplete edition. Planning began immediately for publication of a new edition of the journal in the form of a facsimile with an accompanying accurate transcription.

**LIBRARY ACQUISITIONS, SUMMARY TABLE, 1999**

	<b>Holdings 12/31/98</b>	<b>Purchases</b>	<b>Exchanges</b>	<b>Gifts</b>	<b>Serials Received</b>	<b>Holdings 12/31/99</b>
<b>General</b>	108,547	193	43	221	410	109,414
<b>Anthropology</b>	40,033	168	52	173	115	40,541
<b>Botany</b>	33,092	74	19	85	106	33,898
<b>Geology</b>	37,644	43	17	43	151	37,898
<b>Zoology</b>	38,982	152	50	113	106	39,403
<b>Birds</b>	12,015	37	16	21	20	12,109
<b>Mammals</b>	4,523	32	9	39	13	4,616
<b>Insects</b>	14,989	21	12	21	49	15,092
<b>Lower Inverts</b>	4,279	23	5	19	11	4,333
<b>Fishes</b>	1,215	19	3	4	8	1,249
<b>Amphib/Reps.</b>	1,965	20	5	9	5	2,004
<b>Total</b>	<b>258,298</b>	<b>630</b>	<b>181</b>	<b>635</b>	<b>888</b>	<b>260,632</b>

## FIELD MUSEUM PRESS, 1999

### FIELDIANA

#### **Fieldiana: Anthropology**

No. 31. "The Early Ceramics of the Inca Heartland." By Brian S. Bauer. April 30, 1999; 156 pages, illus., maps. Publication No. 1501.

#### **Fieldiana: Botany**

No. 40. "FLORA COSTARICENSIS. Family #39 Orchidaceae: Tribe Maxillariaea: Subtribes Maxillariinae and Oncidiinae." By John T. Atwood and Dora Emilia Mora de Retana; series editor William Burger. April 30, 1999; 182 pages, 51 illus. Publication No. 1500.

#### **Fieldiana: Geology**

No. 40. "Sauroptrygia from the Middle Triassic of Makhtesh Ramon, Negev, Israel." By Olivier Rieppel, Jean-Michel Mazin, and Eitan Tchernov. February 26, 1999; 85 pages, 58 illus., 9 tables. Publication No. 1499.

No. 41. "The Morphology of Xenarthrous Vertebrae (Mammalia: Zenarthra)." By Timothy Gaudin. September 30, 1999; 38 pages, 14 illus, 1 table. Publication No. 1505.

#### **Fieldiana: Zoology**

No. 91. "Geographic Variation and Evolutionary Relationships Among Broad-Clawed Shrews of the *Cryptotis goldmani*-Group (Mammalia: Insectivora: Soricidae)." By Neal Woodman and Robert M. Timm. January 13, 1999; 35 pages, 18 illus., 7 tables. Publication No. 1497.

No. 92. "Frogs of Vietnam: A Report on New Collections." By Robert F. Inger, Nikolai Orlov, and Ilya Darevsky. January 29, 1999; 46 pages, 18 illus., 11 tables. Publication No. 1498.

No. 93. "*Dromiciops gliroides* Thomas, 1894, Last of the Microbiotheria (Marsupialia), with a Review of the Family Microbiotheriidae." By Philip Hershkovitz (posthumous publication). May 28, 1999; 60 pages, 36 illus., 6 tables. Publication No. 1502.

No. 94. "A Floral and Faunal Inventory of the Réserve Naturelle Intégrale d'Andohahela: With Reference to Elevational Variation." Steven M. Goodman, editor. June 30, 1999; 297 pages, illus., tables. Publication No. 1503.

No. 95. "Mammalian Diversity on Mount Isarog, A Threatened Center of Endemism on Southern Luzon Island, Philippines." By Lawrence R. Heaney, Danilo S. Balete, Eric A. Rickart, Ruth C. B. Utzurrum, and Pedro C. Gonzales. September 30, 1999; 62 pages, 30 illus., 12 tables. Publication 1504.

## PHOTOGRAPHY

The Photography Department provides a wide range of photographic services for the Field Museum. It serves the entire Museum staff, and makes its services available outside the Museum to a diverse group of scholars, educational and research institutions, museums, scientific and commercial publishers. The functions of the Department comprise two areas, services and collections. The service area creates new photographs by assignment, and provides lab services. The collection area maintains the Museum's Photographic Collection, and negotiates rights and permissions for use of its images.

Photographs are used in a variety of publications including educational textbooks and material, marketing, promotions, development, editorial, commercial, and various electronic media such as web sites. Other uses include exhibition display, presentations, and reports. The Photographic services and the Collection are also an important research resource for scientists and curators. Millions of people who have not visited The Field Museum see our photographs. Photographs are requested and republished, often with different uses for the same photograph. This cumulative effect increases the value of the Photographic Department for many different disciplines.

Department photographers produce new photography of subjects including objects and specimens, shot in the studio or on exhibit, portraits, events and activities, staff in their work environments, the building and grounds, and exhibit documentation. Lab services provide film processing, printing, copying, duplicating, and a range of digital imaging services. The Department photographers are continuing to shoot film, and have not converted to digital capture of images. However, lab services provide scans to digitally convert the film images. High-resolution scans are available through our outside custom lab, and low-resolution scans can be done in the Department.

The Photography Collection currently holds over 750,000 images, and is growing annually by an estimated 15,000 images. It is housed in a temperature and humidity controlled environment. The Photographic Collection serves as an important supplement to The Field Museum's exhibits and research, and increases the educational value of the artifacts and specimens. This Collection contains the only comprehensive visual documentation of the collections, research, field work, exhibits, building and history of the Museum. Photographs in the Collection range from the earliest field expeditions to the most current images.

### **Photo Services**

In 1999 photo service orders increased by 20%, building on the 100% increase experienced in 1998. Requests from both inside and outside the Museum were serviced. Major traveling exhibits and related activities and events were again high areas of interest. Requested images for scientific publications from the curatorial staff were also high.

- "Sue." Assignments included the exhibits *Sue*, *The Inside Story*, the upcoming *Sue 2000*, and *Traveling Sue*. Ongoing documentation of preparation work on the fossils, and related publicity and events were also covered, as was the continued scientific documentation requested by the Geology Department, which included over 400 studio photos describing *Sue's* bones.
- *The Field Museum Logo and Corporate Identity Campaign*. This campaign uses photographic images from the Collection on all printed items. A 1999 Award of Excellence received from *Communication Arts* magazine's Design Annual cited work done by the Head Photographer
- *Museum Campus*. Many photographs were taken for press releases, the Campus web site, and publications, including photos for the Chicago edition of the game *Trivial Pursuit*.
- *In The Field*. Produced bi-monthly by The Field Museum and distributed to more than 25,000 members, this publication uses the Photography Department's services regularly.
- *Connect*. The regular newsletter published by the Museum Campaign Office. This and other donor publications and visual presentations utilize our photography for illustration.
- *The Field Museum Public Relations and Marketing Departments*. Department photographers regularly provide documentation of events, and photographs from the Collection.

- *A Dinosaur Named Sue*. Published by Scholastic Incorporated. This book, for grade school children, contains many photographs from the Collection.
- *Tiffany Jewels*. Harry N. Abrams publishers. Photographs of items in the Museum's Gem collection were commissioned for this book.
- *Way-finding Program at Field Museum*. In the new signage and mapping program completed by the Museum this year, many photographs from the Collection are published and displayed.

### **Electronic Imaging**

During 1999 the Department continued work on its electronic imaging project, which was launched in 1997. At the close of 1999 the centralized database contained 122,000 searchable descriptions of photographs, and 21,835 photographic images. In 1999 the image database increased by 100%. These images can be called up on screen from any computer in the Museum using an intranet connection. In-house scanning of film and prints, combined with scanning work done through our outside custom lab has provided the images for the database. The goal of the project is to make the photo database the primary location for staff to complete photo searches, with the advantage of being available to many users at the same time. Eventually the database will be available to users outside the Museum as well. This system protects the original photographs from frequent handling and provides a more efficient means of access to the Collection.

Prior to 1999, the Department did not have an inventory or full catalogue of the Collection. As images and data are being added to the database, the goal of having the full descriptive records located in one place grows closer to being realized. Approximately 20% of the Collection has been entered onto the database. Growth of the digital inventory with information and scanned images, and enhancing the search engine, were high priorities in 1999.

Improvements and modifications made to the methods of producing scanned images resulted in faster and more accurate entries. The error rate in naming scans, producing labels for prints, slides, transparencies and invoices was reduced from 10% to less than one percent in 1999. The time to fully process a typical scan was also reduced from 10 minutes to less than 5 minutes. Custom written scripts helped to automate data entry in several fields. Data was added from several of the Geology Department's collections, including those from paleobotany, fossil reptiles, mammals, and birds, and invertebrate and fish specimens. Photographers are now using a File Maker Pro customized program to describe and catalogue the collection of "General" images (events, people, exhibits, activities or non-artifact or specimen photos). Drop down menus were added that list frequently requested data, such as those for film size and type, and photographer's name (from 1891 to the present). A 25-page manual that describes and standardizes these fields and their contents is in its final stages of revision.

Bibliographic data was collected from past invoices and departmental correspondence from 1980-1999 and then added to the "Requester" field. This is significant because that field, following the "Caption" field, is the second place that a user will choose for searching. The results produced by the "Requester" field help the user know where and if a photo has been published previously and how many times it has been published. Over 23% of the records on the database contain usage data. We have also begun to include in-house publications such as brochures, In The Field, Annual Reports and Bulletins. Where publication information is available in database form, such as in the Geology Department's "Remarks" field, it is pasted into our "Requester" field.

### **User interface**

Steven Senderak, an FMP programmer who successfully completed the database inventory and on-line catalogue of the Geology Department's Paleobotany Collection, was contracted in August to assist Nina Cummings in re-writing the entire user interface and search engine. The MS-Access interface proved to be too programmer dependent and inefficient. The revamped search engine, still in beta testing, provides users with an easier interface that contains more current data. Modifications and corrections are now made within hours versus once a month when the MS Access database was updated. The database display provides the user with a full description of not-yet-scanned images, which helps to determine the priority of what images should be scanned. When a new scan is made and added to the database, the message "Photo Not Scanned" is overwritten by the scan. The FMP database was moved



from the Museum's server to a temporary location on one of the Photography Department's computers to make maintenance easier.

Although the Photo Search Database is available exclusively to users within the Museum, several libraries, museums and individuals have made on-site visits and have used the search engine to locate images from our Collection. Visitors in 1999 included staff from the Univ. of Illinois at Chicago Special Collections, The Chicago Botanic Garden, the Oriental Institute, the Smithsonian, and the Chicago Maritime Society. Additionally, over 100 members of the Pacific Arts Association were given a demonstration of the search engine at their annual meeting in September. Because the images and data are now available to the entire staff via the Intranet, anyone with an in-house computer can search and send digital images outside the Museum. We have found the reaction to this improved service to be overwhelmingly positive. The majority of e-mail requests received from outside the Museum (approximately 250) are handled by e-mailing low resolution scans from the database for the client to select. Of the staff that use the services of the Department, over 60% are now using the search engine to locate and select images.

### **Collection Activity and additions to the Collection of scanned images**

We received over 800 internal inquiries regarding the Photo Collection, and in 1999 numerous external requests for copies of prints, slides and permission to publish photos in commercial and scholarly books and magazines, and for use in electronic media such as CD-ROM and Web pages. Invoices were sent out for billing totaling \$23,000.00.

- Laura Gates, Peter Crane and Judy Block memory photo albums.
- 80 photographs from the 1922-1923, J. Alden Mason, Columbia expedition were made into a specially prepared album and presented to Parker/Gentry Award Recipient Juan Mayr.
- Staff from Institutional Advancement presented a PowerPoint presentation at a luncheon honoring departing Vice President Willard White. The project contained photos of White's tenure at the Museum, from 1988-1999.
- PowerPoint presentation for the office of the President. Significant because the digital images were selected and arranged in a single afternoon from a desktop computer in John McCarter's office.
- Web Use.
- Exhibit design and preparation work.
- Collections management and research.
- Capital Campaign newsletter.
- In The Field "From The Archives" page.
- George Dorsey's 1908 expedition to the Pacific, which produced 250 hand colored lantern slides.
- 600 digital images of baskets from the Anthropology Collections.
- 500 images from the Straus West African expedition, donated by the Indiana Univ. Archives.
- 300 images from 8 photo CDs of the Capital Campaign closing celebration.
- The Plants of the World exhibit in Hall 29. A record of each case and its contents were documented prior to their rearrangement.

Due to the substantial amount of scans and data that have been added to the search engine, a balance has been struck between preservation and overall maintenance and access. The images are now accessible to hundreds of users at the same time, and more importantly, the physical handling of the originals is greatly reduced. We plan to make the data entry more interactive, which will help in the identification of people and artifacts when no such data is available. The goal for the next few years is to complete the database and to make the entire Collection accessible to the public.

## **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 desirable for many reasons in evolutionary studies. Chief among these is the fact that DNA sequences are composed of only four nucleotide bases, resulting in data that are, in some analytical 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, i.e. 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 to the biological histories of geographic regions. Another focus of lab research involves 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 Univ. of Chicago and the Univ. 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 1999, DNA sequence data were obtained and/or analyzed from hundreds of taxa 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 1999. The arrival of Lutz Bachmann (Lab Manager) and Assistant Curator Paul Goldstein (Zoology/Insects) at the Field Museum will bring additional fields of research to the Pritzker Lab. Lutz Bachmann is working on the mode of evolution of non-coding DNA in *Drosophila*, cave crickets and millipedes as well as in ancient DNA analyses. Paul Goldstein's research focuses on the phylogenetic systematics of butterflies and moths, the evolution of host-plant use and specialization in butterflies and moths, and in conservation genetics and invertebrate conservation in prairies and prairie-like habitats.

As it has in the past, during 1999 the lab continued to place an emphasis on education, training researchers from other countries, including Brazil, Germany, South Africa, as well as the American researchers and Chicago-area undergraduates. The lab provided training and research facilities for scientists and graduate students who are advised in their thesis research by Field Museum scientists. New projects already scheduled to start in 2000 will continue this emphasis on training and collaboration.

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 newly established web pages of the Pritzker Lab (<<http://> and of the committee that manages the facility: Bill Ballard (Zoology); John Bates (Zoology); Paul Goldstein (Zoology); Shannon Hackett (Zoology); Francois Lutzoni (Botany); Kathleen Pryer (Botany); and Lutz Bachmann (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 and specimens at magnifications ranging from very low magnifications (10 times life-size) to high magnifications (above 20,000 times life-size). The images of specimens obtained with the scanning electron microscope provide 300 times more depth-of-field than those observed through light microscopy. Thus, images with higher resolution and higher magnifications are achieved from scanning electron microscopy than with light microscopy. The laboratory is managed by Betty Strack. Her duties include training staff and students to operate the SEM and the other equipment and keeping the instruments in good operating condition.

Investigators from the Departments of Botany, Geology, and Zoology obtained over 1300 publishable SEM photographs in 1999. The SEM laboratory is a multi-user research area where nineteen curators, professional staff, students, research associates, and visiting scientists from Academic Affairs operated the SEM during the year. The staff and students that worked on the SEM include: Harald Schneider (Botany), Jolanta Míadlikowska (Botany), Blanca León (Botany), Jolanta Kobylinska (Geology), Rick Lupia (Geology), Susana Magallón (Geology), Pat Herendeen (Geology), Gretchen Moeser (Geology), Hallie Sims (Geology), Darin Croft (Geology), Jason Bond (Zoology), Rachel Collin (Zoology), Matt Dean (Zoology), Bruce Patterson (Zoology), Petra Sierwald (Zoology), Bill Stanley (Zoology), and Perry Lai (visiting scientist in Zoology).

Major research projects utilizing the SEM have included the following:

- Phylogeny and floral evolution in flowering plants: fossil and living flower structures
- Phylogeny of Marsileaceae (water ferns): spores and sporocarp (reproductive structures)
- Phylogeny and taxonomy of the genus *Peltigera* (lichens): veins of thalli (vegetative structures)
- Wood morphology of legumes
- Systematics of millipedes: examinations of mouth, head, and body structures
- Morphological analysis and ontogeny of spider sexual organs and other structures
- Snail systematics: protoconchs (larval shells) and radulae (snail teeth) of *Crepidula* gastropods
- Shrews of Tanzania including some new species: teeth and jaws comparisons
- New species of a rodent from Uruguay: teeth morphology

A good example of ongoing SEM projects is the work of Petra Sierwald (Assistant Curator, Zoology) and her research team, concerning the systematics of millipedes. The team is studying perhaps the least known order in the animal kingdom, the millipede order Siphoniulida (small, worm-like millipedes that inhabit tropical soils). The use of the SEM proved extremely important for this study due to the small size of the animals; the tiny mouthparts and the sexual organs of the males can only be studied fully with the use of electron microscopy. Studying these characters is very important to learn more about these elusive creatures: what they eat, what their closest relatives among the millipedes are, etc. Marius van der Merwe and Jason Bond, graduate student and postdoctoral fellow, respectively, in Sierwald's NSF-funded millipede program also used the SEM for their studies on a different order of millipedes. Other groups (families) of millipedes will be added to their SEM studies during the year 2000.

The multi-user equipment consist of an Amray 1810 Scanning Electron Microscope and specimen preparation instruments, a Balzers 030 Critical Point Dryer for drying soft tissue and a Denton Vacuum Desk II Sputter Coater for coating non-conductive specimens with a thin layer of gold. Plans include adding a digital imaging system to the SEM for expanding its usefulness. Users will be able to electronically capture their images in addition to, or instead of, taking photographs.

## **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 1999, the Scholarship Committee, chaired by Lance Grande, awarded 25 scholarships, one fellowship, and six internships, in the four scientific departments. Ten 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, Brazil, Chile, Colombia, Cuba, France, New Zealand, Peru, Russia, Thailand, and Venezuela.

### **Scholarships and Internships Awarded in 1999**

Lester Armour Family Graduate Fellowship/William A. and Stella Rowley Graduate Fellowship (both for outstanding graduate students to pursue advanced studies in one of the scientific departments at the Museum) Amy Driskell.

Borg-Warner Robert O. Bass Visiting Scientists (for the support of visiting scientists) John Braggins, Brian S. Dyer, Sergei I. Golovatch, Somsak Panha, Ruth Shady, Michael Shishkin, F. Gary Stiles.

Thomas J. Dee Fellows (for research and academic fellowships with priority given to younger, less well established research workers and to graduate students) Rafael Borroto, Steven Brewer, Marcela Cáceres, Christine L. Hice, Matthew E. Horning, Stéphane Hourdez, Erin H. Kimmerle, Segundo Leiva, Sean Modesto, Luis Gonzalo Morales, Jorge Silva, Alexey Solodovnikov, Elena Vivar, Robin Whatley.

Karl P. Schmidt Scholars (for the training of young scientists who desire to study at The Field Museum) Adriana E. Aquino, Mariana R. Chani Posse, Eric Hilton, Olga Katenina.

Internships (work experience whereby an undergraduate or recent graduate gains hands-on training in his/her field of expertise for one or more semesters) Leah Berkman, Jennifer Kolnik, Katherine J. Megquier, Timothy Rieth, Alexei A. Rivera, Susan Ruggero.