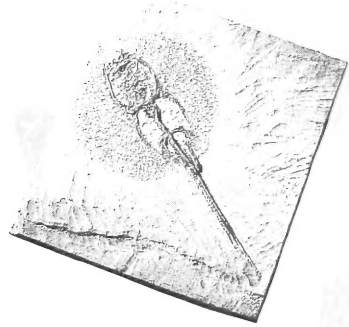
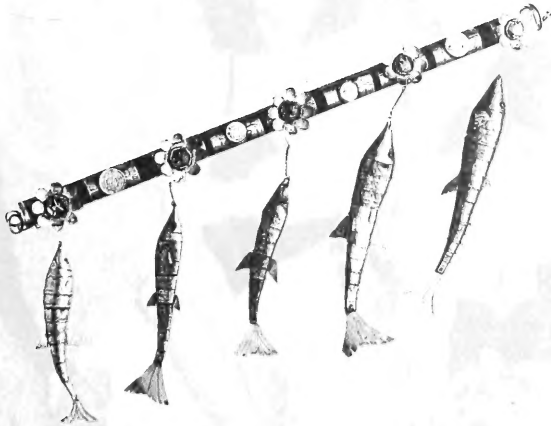


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# UNDERSTANDING DIVERSITY



FIELD MUSEUM OF NATURAL HISTORY 1989/1990 BIENNIAL REPORT



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THE DIVERSITY OF LIFE IS EXTRAORDINARY. THERE ARE SAID TO BE A MILLION OR SO DIFFERENT KINDS OF LIVING ANIMALS, AND HUNDREDS OF THOUSANDS OF KINDS OF PLANTS.

BUT WE DON'T NEED TO THINK OF THE WORLD AT LARGE. IT IS AMAZING ENOUGH TO STOP AND LOOK AT A FOREST OR AT A MEADOW — AT THE GRASS AND TREES AND CATERPILLARS AND HAWKS AND DEER.

HOW DID ALL OF THESE DIFFERENT KINDS OF THINGS COME ABOUT; WHAT FORCES GOVERNED THEIR EVOLUTION; WHAT FORCES MAINTAIN THEIR NUMBERS AND DETERMINE THEIR SURVIVAL OR EXTINCTION; WHAT ARE THEIR RELATIONS TO EACH OTHER AND TO THE PHYSICAL ENVIRONMENT IN WHICH THEY LIVE?

THESE ARE THE PROBLEMS OF NATURAL HISTORY, PROBLEMS THAT CONCERN OURSELVES AS ANIMALS AND THAT CONCERN US EVEN MORE AS ORIGINATORS OF THIS THING CALLED CIVILIZATION — WHICH IS, AFTER ALL, MERELY A RATHER SPECIAL SORT OF AN ANIMAL COMMUNITY.

MARSTON BATES, *THE NATURE OF NATURAL HISTORY*

Every large organization lives with a verbal shorthand that compresses complex ideas or experience into a word or phrase. This seems inevitable, and the Field Museum is no exception to the rule. What should not be inevitable is that we fail to explain ourselves when we communicate with our friends.


Among the Museum's most pervasive buzzwords are *systematics* and *cultural understanding*. Between them, they represent a large part of what we are about as an institution — the kind of research we do and the ethos that governs our educational work. In this report we've tried to illuminate those concepts. I hope that through them readers will gain a better understanding of the special role the Museum plays in basic science, environmental education, and human relations.

As I conclude my term as chairman of the Museum's Board of Trustees, I want to thank my colleagues, the Museum staff and volunteers, the Chicago Park District, and our public, corporate, and individual donors for helping prepare the ground for the Museum's second century.

In this regard, I should call attention to one fact that pops out of the financial figures in this report. In 1990, unrestricted contributions by individuals and family foundations increased 33 percent over 1989, and represented 65 percent of total unrestricted giving, up from 55 percent in previous years. Despite the recession, total unrestricted giving increased by 11 percent, to more than \$2 million. These increases reflect not so much larger individual contributions as a large increase in the number of contributors. That is a happy development, not least because it creates a new base from which to build even larger constituencies in the future.

*THE  
OBJECTS OF  
OUR  
AFFECTION*

Pictured in this report are a few dozen of the nearly 20 million natural history specimens and cultural artifacts in the Field Museum collections, along with a very few of the staff members, volunteers, contributors, and visitors who make these inert objects come alive.



Robert A. Pritzker, Chairman, Board of Trustees



Robert A. Pritzker, Chairman of the Board of Trustees, photographed in the Nile marsh section of the "Inside Ancient Egypt" exhibit.

‘SYSTEMATICS’ AND ‘CULTURAL UNDERSTANDING’ —  
BETWEEN THEM, THESE WORDS REPRESENT A LARGE PART OF WHAT  
WE ARE ABOUT AS AN INSTITUTION

Opposite: An Egyptian mortuary cloth depicting the goddess Osiris. Above right: a bronze mirror with a handle of a black woman holding a papyrus blossom over her head. Both objects were collected by Edouard Ayrault.





Photograph: Michael O. Dillon, photographed in the Botany Department light well amidst newly described Peruvian flora.



## INVESTIGATING DIVERSITY IN THE NEOTROPICS:

FUNGI, FISHES, RELICT FORESTS, THE ADVANCE OF THE  
ANGIOSPERMS, THE FAMILY LIFE OF THE BLACKBIRDS,  
AND THE RISE OF TIWANAKU

*Helianthus chilensis* a new genus and species of the sunflower family, Asteraceae, found by Michael O. Dillon in the Andes of northern Peru. (Illustration by Peruvian professor Segundo Leiva Gonzales.)  
Background: *Azorella compacta*, an Andean cushion plant of the carrot family, Umbelliferae.

When Field Museum scientists are “in the field,” that could mean Borneo or Iowa or Kenya, or any of numerous other locations around the world. But chances of bumping into a curator are highest in the New World, between latitudes 23.5° north and 23.5° south: the neotropics.

No doubt there are many idiosyncratic reasons why one-third of the Museum’s curators — a dozen Ph.D.s with as many different research interests — have chosen to work in this region. The most important reasons, however, have to do with institutional tradition and commitments (the Museum’s Flora of Peru project, for example, has been the work of generations of curators since 1921), and the extreme diversity of tropical environments that so excites museum people. [See page 7.]

Within this relatively small area of Central America and northern South America, Field Museum curators have in recent years been able to study

the effect of ocean currents on desert vegetation [page 10] and, not far away, the ecological associations of small mammals in Andean rain forests. They have catalogued the 400 species of the coffee family in Costa Rica, among other floras and faunas, and have been mapping the variation among the thousands of species of tetras in the tropical freshwater streams of Venezuela. On the shores of Lake Titicaca, they are unearthing the succession of cultures that led to the rise and ultimate demise of one of the earliest empires in the Americas. In the Peruvian highlands, they have demonstrated the independent evolution of birds confined to mountain peaks above the clouds.

These and other Field Museum research projects are in most outward respects quite traditional. Curators find, collect, sort, describe, classify, and preserve the objects of their



Above: test tubes containing pine roots inoculated with mushroom cultures to form the symbiotic relationship known as mycorrhizae. Background: a scanning electron microscope image of the spores of *Laccaria tortilis*, magnified 1,000 times.

attention. But armed with computers, the techniques of molecular genetics, analytical tools like “phenetics” and “cladistics,” and machines like the scanning electron microscope and the superconducting cryogenic magnetometer, contemporary museum-based scientists can often ask more difficult questions of their data than their predecessors could. And frequently nowadays, especially in the tropics, their data and analyses have high utilitarian value for conservation and development.

Botanist Gregory M.

Mueller, for example, has as one of his research projects a survey of the mushrooms in the oak forests of Costa Rica, and he and his colleagues have collected more than 2,500 specimens. These are being subjected to several different laboratory tests, including electron microscopy, so they can be assigned a genus and species, their relationships assessed, and information on their life histories obtained. Cultures of some of these mushrooms are also

being amassed so they can be grown next to Costa Rican oak seedlings to learn which are potentially able to form a specialized symbiosis. Oaks and mushrooms form joint underground structures called mycorrhizae on which both are dependent, but the known pairings have been worked out for some temperate forests, not tropical ones. Foresters in Central and South America have been replacing stands of native oaks with foreign species, a practice that could lead to problems — plantations of foreign trees do not support the diversity of native insects, birds, and other animals and plants that complex native forests do. Mueller’s research will help enable the industry to develop reforestation technology that does not upset local ecosystems.

In Ecuador, Peter R. Crane, chairman of the Department of Geology, has found remarkably well preserved fossil plants. Similar assemblages have been found in Virginia and Portugal and include minuscule flowers that still contain pollen grains.



*Brycon falcatus*, a South American tetra collected by Barry Chernoff

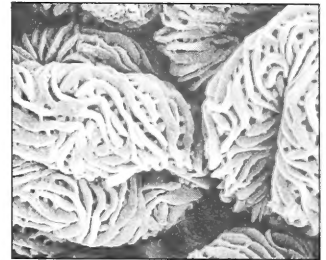


Under the scanning electron microscope, these hundred-million-year-old fossils have unlocked many of the mysteries in the reproductive biology of basal angiosperms — the primitive flowering plants. Moreover, studying the pollen preserved within the flowers enables Crane and his Field Museum colleague Scott Lidgard to interpret with greater confidence the data in their imposing study of the rise of the flowering plants, which is based on analysis of fossil pollen data from many parts of the world. To their own surprise, they discovered that between 120 million and 80 million years ago (the mid-Cretaceous period), during the time the present continents and oceans were taking shape, the flowering plants and their nearest relatives, the Gnetales, began to diversify rapidly in equatorial regions and to spread to higher latitudes. But soon the Gnetales died off, perhaps vanquished by the preadaptive power of the flowering plant, which subsequently came to dominate every terrestrial ecosystem except the high-elevation or

high-latitude spruce and pine forests.

This news, and the analytical methods employed by Crane and Lidgard, have attracted wide interest, including in the oil industry — much of the world's oil is found in mid-Cretaceous rock. Funding from the Petroleum Research Fund of the American Chemical Society will support

Below and background: Scanning electron microscope images of fossil pollen grains about 100,000,000 years old.



## SYSTEMATICS

*The kind of work that most Field Museum scientists do is called systematics — a word that is not in the vocabulary even of many well-educated people. Paleobotanist Peter Crane, chairman of the Museum's Department of Geology, defines systematics as the science of "documenting and understanding the relationships between organisms." At a basic level, this means collecting, describing, and sorting the plants and animals of a given place. Cartoon images of butterfly hunters in pith helmets aside, systematics is the foundation on which all other study of life on earth is constructed. As a practical matter, such studies are essential in conservation and environmental planning, and in any consideration of evolution.*

*Beyond this, systematists may take a group of related organisms (the New World blackbirds, for instance, or the tropical fresh-water tetras) and seek to understand it in detail — its subdivisions, geographic distribution, patterns of behavior, ecological relationships, evolutionary history. The greater the diversity in a place or in a group of organisms, the greater the challenge of understanding its forms and relationships.*

*At yet another level of investigation, systematists may try to understand the processes at work in the patterns of relationship they have discerned — the biochemistry of evolution, say, or the mathematics of shape and size change.*



Above: *Icterus galbula bullocki*, a common North American oriole. The 24 oriole species are descendants of one of the oldest lineages within the family of New World blackbirds. Background: DNA sequence of *Icterus galbula bullocki* was used to determine the evolutionary relationships of orioles.

further research by Crane and Lidgard that will expand their database geographically over a longer time span and provide new insight into the long-term interactions of vegetation and climate in the history of our planet.

Bosque Monteseco, in northwestern Peru, is one of several remnants of a vast forest that 30,000 years ago stretched through what are now Ecuador and Colombia as well as Peru. Field Museum botanist Michael O. Dillon, with American and Peruvian colleagues and students, has been surveying the forest as part of the Flora of Peru project. In isolation, many of the plants and animals there have evolved into new species that are found nowhere on earth except these 6,000 acres. Because the forest is in the path of agricultural development, the researchers have been working with the local schools to develop science-education programs in hopes that a new generation will come to appreciate and protect natural diversity.

Fish are a lot quicker than land animals to change their physical

characteristics to accommodate environmental change. In an effort to better understand the process at work, zoologist Barry Chernoff studies two groups of fishes — the silversides, whose several dozen species inhabit a wide variety of ecosystems throughout the Americas, and the tetras, whose several thousand species are confined to tropical freshwater streams. These tropical waters, however, offer a multitude of mini-environments through which to trace the fishes' changing features. Chernoff is interested in exploring mathematical aspects of evolutionary change, and in the theoretical question of how much change makes a "species." But in the Orinoco Basin of Venezuela, where deforestation and channelization are destroying habitat at a rapid pace, the most pressing research priority is simply to identify previously undescribed species before they are gone.

Scott M. Lanyon, chairman of the Department of Zoology, is another frequent visitor in the neotropics, where he has done collecting, conservation consulting, and

research in his own specialty, the New World blackbirds — the redwings, grackles, meadowlarks, bobolinks, orioles, and other songbirds. Despite the blackbirds' familiarity as a group, not much is known about how the 97 species are related to one another, and Lanyon is using the techniques of molecular biology in an effort to construct the family tree. Lanyon is principally interested in studying the evolution of mating and nesting behaviors, including plumage and song, which among the blackbirds are both extremely varied and highly unusual. Birds typically pair for a season, males and females often look alike, they tend to be territorial and to have a species-specific song. But blackbird species may exhibit sexual promiscuity, males and females may be of sharply different size and color, they often mimic other birds' songs, and may tolerate dozens of nests in one tree, among other odd behaviors. Lanyon hopes to be able to plot these morphological and behavioral characteristics against the family tree derived from DNA studies, to suggest how and why one led to another.

Lest we forget, human

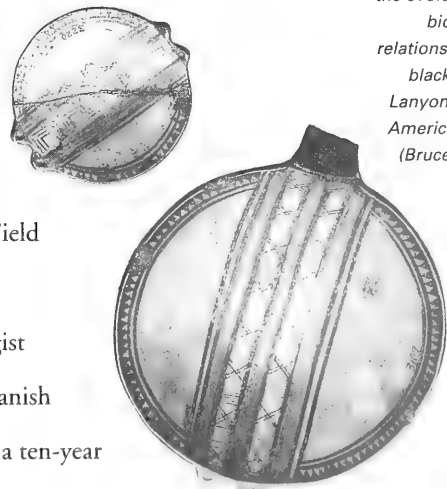
beings are also a result of natural history, and their group behaviors — cultures — while not genetically determined, have patterns and processes of change that museum-based researchers can study by means of systematic collections.

Thirteen thousand feet up in the Andes, during the reign of Caesar Augustus in Rome and for a thousand years after, the city of Tiwanaku ruled an immense empire that was built on the surplus provided by a remarkably sophisticated agricultural technology. The system of terraced fields, naturally irrigated and insulated against the cold Andean nights, had been developed during the preceding 1,000 years by a succession of village

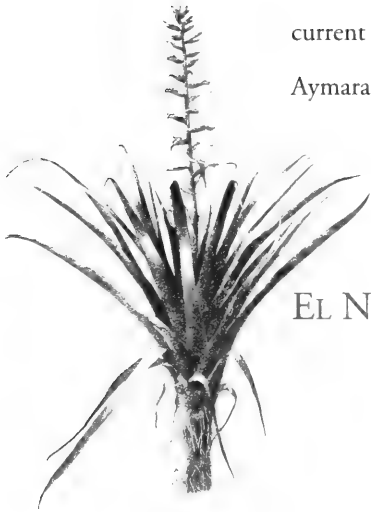
cultures around Lake Titicaca. Field Museum archaeologist Charles Stanish has begun a ten-year project to investigate the origins of the agricultural technology

## THE BIOCHEM LABS

*The Biochemical Laboratories, a Museum research facility, produced its first DNA sequence data in 1990, obtained by using a recent technological innovation known as the polymerase chain reaction (PCR). The technique permits genetic analysis of DNA extracted from small pieces of tissue, including dried or alcohol-preserved tissues. In a rare instance, the Lab was able to sequence DNA from a 20,000-year-old leaf fossil. Major projects have involved analysis of the evolutionary and biogeographic relationships among blackbirds (Scott Lanyon) and South American fruit bats (Bruce Patterson).*



and development of political systems that culminated in the long reign of Tiwanaku, and its decline before the rise of the Inca about 1450 A.D. With teams of U.S. and Peruvian students, he has so far uncovered 450 new archaeological sites that reveal evidence of six different cultures. There is some hope that the amazingly productive terraced agriculture can be reintroduced by the current residents of the area, the Aymara Indians. ♦



## THE LOVE OF EL NIÑO, AND THE FEAR OF GOATS

It hardly ever rains in the coastal deserts of Peru and Chile. Life is sustained there by seasonal fogs from which plants condense moisture. Even a few species of bromeliads endure the spare environment, like their neighbors, by condensing moisture on their leaves and roots, while their numerous relatives in wetter climates collect water

in specialized leaf bases that form a tank. These tanks provide aquatic environments capable of sustaining other organisms such as small frogs, snails, or insects.

But Field Museum botanist Michael O. Dillon, on a collecting trip in the Chilean Atacama Desert, found some bromeliads over three feet tall growing on a steep cliff about a thousand feet above sea level. The site was inaccessible; Dillon had to use a rope lasso to bring one down — and was surprised to receive a small shower when the plant was uprooted! It proved to be a previously undescribed species that had managed to retain a functioning tank in the desert. All individuals in the area contained substantial amounts of water, some as much as a pint, even though there had been no rain for more than a year. In the desert, that much water makes a tempting target for any herbivore.

Dillon has concluded that the plant is most closely related not to nearby species but to bromeliads of the genus *Tillandsia* that grow in tropical savannas and cloud forests from

Colombia to Peru. He estimates that there are fewer than 200 scattered individuals of the new species, which has managed to survive only by clinging to cliff faces where neither the domesticated nor the wild goats that graze in the area can get at it. Dillon named the species *Tillandsia tragophoba* — from the Greek *tragos*, goat, and *phobos*, fear — in an effort, he wrote in a journal of the New York Botanical Garden, “to call attention to the rapid and continuing destruction of natural vegetation by grazing animals,” a problem now being addressed by the Chilean conservation authorities.

Foraging livestock had been a concern of Dillon’s since 1983, when he was in the Peruvian Desert at the time of the El Niño phenomenon, a periodic ocean-atmosphere event which that year was perhaps the strongest in history; among other climatic effects, it produced the first major rains in the desert since 1925. Dillon’s principal work has been in Peru, where he is continuing a Field Museum project — begun decades before he was born —

to catalog all the plants in that extremely diverse country. During the 1983 El Niño, as he drove down the Peruvian coast, he was startled to see the desert blooming with unusual plants whose seeds, apparently, had lain dormant for decades. Such insular, opportunistic plant communities would be interesting in themselves and good subjects for the study of evolution. A few months later, when Dillon returned to the area to do further research, he found that ranchers in the mountains had driven their cattle down to the coast to forage amid the new vegetation, and it was now severely disturbed or destroyed.

Subsequent El Niño events and a freak rainstorm in northern Chile in July 1987 have reinvigorated the desert’s vegetation and stimulated research. The result will be an exhaustive survey and computer analysis of desert fog-dependent plant communities in Peru and Chile that in turn — given the periodic return of El Niño — will provide baseline data for the study of global warming. ❖



## COMPUTER SERVICES

*Computerization of the Museum’s research, collections management, exhibit, and administrative functions has accelerated in recent years and is poised for expansion and upgrading. Currently, in the scientific departments, a DEC VAX 11/785 running the Unix 5.3 operating system is connected to more than 120 personal computers and a wide range of peripherals. Upgrading is planned to add image-processing applications, to increase connectivity within the Museum and between its departments, and to permit networking with other research and educational institutions.*





THE SPIRIT OF GIVING:

FRIENDS AND SUPPORTERS OF THE

FIELD MUSEUM OF NATURAL HISTORY

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\* Deceased

## EIGHTY-SIX NEW MEMBERS

Eighty-six new members joined the Founders' Council in 1989-90, bringing the total to 340. The Council's Award of Merit, recognizing significant contributions to the study of natural history, was presented to Harvard University biologist Edward O. Wilson. Previous recipients include Sir David Attenborough, the documentary film maker, Roger Tory Peterson, the wildlife artist, and Stephen Jay Gould, the essayist. In 1990, Laura and Marshall Front succeeded John B. Judkins, Jr. to the Council's chair.

Individual Founders' Council members annually contribute \$1,500 or more in unrestricted gifts or gifts to other special funds; give a single or accumulated gift of \$25,000 or more for permanent membership; make a deferred gift of \$50,000 or more; or make a gift of a major collection.

Corporate and foundation members of the Founders' Council annually contribute \$5,000 or more in unrestricted gifts.



From the Field Museum Library: Snake Foot, a figure from *Vipera Pythia*, a treatise on venomous snakes by Marcus Aurelius Severini (1580-1656), published in 1651.

## NEW VISITOR MARKETING

The Museum launched an aggressive visitor marketing plan in 1989 and 1990 through the Public Relations Department with the assistance of Leo Burnett U.S.A., a top advertising agency. A new marketing theme, "Field Museum - The Smart Way to Have Fun," inspires an integrated program of publicity, promotions, and advertising that has helped the Museum exceed attendance and revenue goals both years. New corporate marketing partnerships with United Airlines, American Express Travel Services, Pizza Hut, McDonald's, KLM Royal Dutch Airlines, top Chicago hotels, major radio stations and retailers enhance promotional activities.



From the Field Museum Library: Anthropomorphic rendering of a mandrake root, from *Gart der Gesundheit*, an herbal pharmacopoeia compiled by Joannes de Cuba and published in Augsburg in 1486 — the oldest printed book in the collection.

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*The Friends of Field Museum Library was organized in 1990 to promote interest in and support for the Library and its programs of book and journal acquisition, collection and preservation, and exhibition and publication. Under the chairmanship of Mrs. T. Stanton Armour, a member of the Museum's Board of Trustees, the group has launched a newsletter, Gatherings, and sponsored the acquisition of several rare books, including Richard Bradley's A Philosophical Account of the Works of Nature, published in London in 1721. Other special-interest groups are the Friends of Ruatepupuke II, the Maori meeting house now undergoing renovation on the Ground Floor, and the Outreach Council, formerly known as the Public Programs Support Group, which aids the Museum's community outreach program.*

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Mr. & Mrs. Theodore W.  
Van Zelst  
Dr. & Mrs. Rupert L. Wenzel  
Mr. Willard E. White  
Dr. & Mrs. Philip C. Williams  
Mr. & Mrs. John W. Winn  
Mrs. George B. Young  
Mr. & Mrs. Max Zar

Susan Lopez  
Alexis MacDowall  
Patricia McMillen  
Therese M. Obringer  
Jesse G. Reyes  
Laurie D. Roston  
Robert Rosen  
Julie P. Shelton  
Louise K. Smith  
Rhonda Y. Stivers  
Mary Wilson  
Nikki Zollar

*'Chair*

*'Chair*

## THE OUTREACH COUNCIL

Tony Armour  
Jonathan H. Bogard  
Nancy M. Bush  
Arturo Cisneros  
Kevin S. Considine  
Matthew S. Eyerman  
Elizabeth Jolls Giese  
Gerald P. Giese  
Claire Hartfield  
Philip L. Harris  
Carrie Healy  
J. Duncan Healy  
Laura Jones  
Richard Jones  
Mary Kay Karzas  
Mercedes A. Laing  
Carl Lavender  
Patricia J. Lawson  
Marda Lebeau  
Louise Lefkow  
David Lefkow  
Adriana Ballen Litvak

## FRIENDS OF RUATEPUPUKE II

Mr. & Mrs. James Ballard  
Mr. & Mrs. Donald Cameron  
Ms. Jane Connolly  
Mr. John Cook  
Ms. Lucy Fairbank  
Mary & Bruce Feay  
Mrs. Rebecca Gilson  
Mr. James P. Littlejohn  
Mr. John M. MacDonald  
Mrs. Dagmara Nyman  
Ms. Frances L. Osgood  
Ms. Florence O'Shea  
Mr. & Mrs. Jerome Schultz  
Mr. Delbert Erle Yarnell  
Ms. Tory Light

*'Chair*



From the Field Museum Library: Fishpersons. from *Historiae Naturalis de Piscibus et Cetus* by Joannes Jonstonus (1603-1675), published in Amsterdam in 1657.

## 'INTO THE WILD'

With a pathbreaking gift that will total \$5 million, the Daniel F. and Ada L. Rice Foundation has led the Museum "Into the Wild" — a new thematic exhibit, subtitled "Animals, Trails & Tales," on the world's animals and their environments.

Many contributors large and small have come forth eagerly to support this major mounting of the Museum's zoology collections. Among them: The National Science Foundation made its largest grant ever for a museum exhibit (\$1.2 million), and the members of the Windy City Grotto chapter of the National Speleological Society (cave explorers) put together \$1,000 and no little expertise to help redeem the

reputation of the much-maligned bats.

Mr. and Mrs. Brooks

McCormick contributed funds for a

diorama on wild turkeys, and

Mrs. R. Winfield Ellis for the

stunning installation of Carl

Akeley's famous "Four Seasons"

diorama. Franklin J. Lunding

pledged a gift in memory of his wife,

Virginia, for the passenger pigeon

diorama, and Gaylord and Dorothy

Donnelley to support a new interactive

exhibit on natural areas around Chicago.

The Ronald McDonald

Children's Charities donated \$150,000

to help enhance the exhibit as a family

experience, and the W.K. Kellogg

Foundation gave \$1.4 million for

exhibit construction and educational

programming.

The exhibit, including a

Nature Walk that will take visitors from

Chicago to Alaska and to South

America, opens in November 1991 in

the first-floor west halls, which will now

be known as the Daniel F. and Ada L.

Rice Wing. ♦



STATEMENTS OF ASSETS, LIABILITIES AND FUND BALANCES  
DECEMBER 31, 1990 AND 1989

	CURRENT OPERATING FUND		FUND DESIGNATED FOR SPECIAL PURPOSES		FUND FUNCTIONING AS ENDOWMENT	
	1990	1989	1990	1989	1990	1989
<b>ASSETS</b>						
CASH	\$952,516	\$1,172,748				
INTEREST AND DIVIDENDS RECEIVABLE	32,000	14,000			\$533,000	\$533,000
PLEDGES RECEIVABLE	309,750	25,250			100,000	150,000
MUSEUM STORES INVENTORY	1,354,884	1,471,134				
INVESTMENTS	3,915,860	1,992,086			53,828,200	54,026,689
PREPAID PENSION COST	571,110	467,121				
DEFERRED NOTE ISSUANCE COSTS						
OTHER ASSETS	566,919	602,981				
MUSEUM PROPERTIES, NET COLLECTIONS						
	<b>\$7,703,039</b>	<b>\$5,745,320</b>			<b>\$54,461,200</b>	<b>\$54,709,689</b>
<b>LIABILITIES AND FUND BALANCES</b>						
ACCOUNTS PAYABLE	\$1,164,707	\$1,372,940				
ACCRUED LIABILITIES	978,735	899,720				
DEFERRED REVENUE						
CONTRIBUTIONS OTHER	146,162	161,754				
NOTES PAYABLE						
DUE TO (FROM) OTHER FUNDS	4,057,581	1,980,052	(\$4,158,591)	(\$3,311,232)		
TOTAL LIABILITIES	6,347,185	4,414,466	(4,158,591)	(3,311,232)		
FUND BALANCE	1,355,854	1,330,854	4,158,591	3,311,232	54,461,200	54,709,689
	<b>\$7,703,039</b>	<b>\$5,745,320</b>			<b>\$54,461,200</b>	<b>\$54,709,689</b>

CURRENT OPERATING FUND, FUND DESIGNATED FOR SPECIAL PURPOSES AND FUND FUNCTIONING AS  
ENDOWMENT ARE UNRESTRICTED FUNDS.

MUSEUM PROPERTY FUND		RESTRICTED FUND		ENDOWMENT FUND		TOTAL ALL FUNDS	
1990	1989	1990	1989	1990	1989	1990	1989
						\$952,516	\$1,172,748
\$846,090	\$281,490			\$167,000	\$167,000	1,578,090	995,490
891,667	2,574,866	\$734,000	\$5,000	150,000		2,185,417	2,755,116
						1,354,884	1,471,134
38,800,938	18,279,980			17,526,519	16,889,660	114,071,517	91,188,415
						571,110	467,121
789,520	356,578					789,520	356,578
350,000		247,886	264,582			1,164,805	867,563
48,010,462	46,505,192					48,010,462	46,505,192
1	1					1	1
<b>\$89,688,678</b>	<b>\$67,998,107</b>	<b>\$981,886</b>	<b>\$269,582</b>	<b>\$17,843,519</b>	<b>\$17,056,660</b>	<b>\$170,678,322</b>	<b>\$145,779,358</b>
						\$1,164,707	\$1,372,940
\$230,726	\$70,396					1,209,461	970,116
		\$10,958,120	\$7,129,132			10,958,120	7,129,132
		313,143	43,548			459,305	205,302
31,300,000	13,000,000					31,300,000	13,000,000
10,390,387	8,234,278	(10,289,377)	(6,903,098)				
41,921,113	21,304,674	981,886	269,582			45,091,593	22,677,490
47,767,565	46,693,433			17,843,519	17,056,660	125,586,729	123,101,868
<b>\$89,688,678</b>	<b>\$67,998,107</b>	<b>\$981,886</b>	<b>\$269,582</b>	<b>\$17,843,519</b>	<b>\$17,056,660</b>	<b>\$170,678,322</b>	<b>\$145,779,358</b>



STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN FUND BALANCES  
YEARS ENDED DECEMBER 31, 1990 AND 1989

	CURRENT OPERATING FUND		FUND DESIGNATED FOR SPECIAL PURPOSES		FUND FUNCTIONING AS ENDOWMENT	
	1990	1989	1990	1989	1990	1989
<b>REVENUES:</b>						
CHICAGO PARK DISTRICT PROPERTY TAX COLLECTIONS	\$6,660,554	\$5,585,944				
GOVERNMENT GRANTS	532,846	499,392				
INTEREST & DIVIDEND INCOME	2,972,946	3,310,228	\$98,709			
NET REALIZED GAIN (LOSS) ON INVESTMENTS SOLD		103,561			(\$782,907)	\$2,263,062
CONTRIBUTIONS	2,253,005	1,706,463			494,316	706,222
MEMBERSHIPS	557,514	510,634				
ADMISSIONS	2,094,226	2,139,140				
AUXILIARY ENTERPRISES (MUSEUM STORES, VENDING, TOURS, & FOOD SERVICES)	3,911,775	3,719,542				
OTHER	16,625	22,513	255,179	158,994		
<b>TOTAL REVENUES</b>	<b>18,999,491</b>	<b>17,597,417</b>	<b>353,888</b>	<b>158,994</b>	<b>(288,591)</b>	<b>2,969,284</b>
<b>EXPENSES:</b>						
RESEARCH & COLLECTIONS	3,779,600	3,182,384	144,514	193,042		
PUBLIC PROGRAMS	1,443,757	1,386,576	72,045	181,198		
FINANCE & MUSEUM SERVICES	6,087,603	5,677,786	5,736	75,098		
DEVELOPMENT & EXTERNAL AFFAIRS	1,604,404	1,666,730	46,551	36,325		
ADMINISTRATION	1,602,456	1,616,394	61,317	8,466		
AUXILIARY ENTERPRISES (MUSEUM STORES, VENDING, TOURS, & FOOD SERVICES)	3,680,851	2,919,384	741			
DEPRECIATION						
NOTE INTEREST & AMORTIZATION						
OVERHEAD COSTS CHARGED TO GRANTS	(466,257)	(546,806)				
<b>TOTAL EXPENSES</b>	<b>17,732,414</b>	<b>15,902,448</b>	<b>330,904</b>	<b>494,129</b>		
<b>INCREASE (DECREASE) IN FUND BALANCE RESULTING FROM REVENUES AND EXPENSES</b>	<b>1,267,077</b>	<b>1,694,969</b>	<b>22,984</b>	<b>(335,135)</b>	<b>(288,591)</b>	<b>2,969,284</b>
<b>FUND BALANCE:</b>						
BEGINNING OF YEAR	1,330,854	1,305,854	3,311,232	3,433,324	54,709,689	51,968,841
ADD (DEDUCT) TRANSFERS						
NON-MANDATORY	(1,059,895)	(213,043)	1,059,895	213,043		
MUSEUM PROPERTY ADDITIONS	(676,610)	(1,456,926)	(255,719)			
TOTAL RETURN	494,428		20,199		(499,898)	
OTHER					540,000	(500,000)
NET REALIZED GAIN ON INVESTMENTS HELD						271,564
<b>END OF YEAR</b>	<b>\$1,355,854</b>	<b>\$1,330,854</b>	<b>\$4,158,591</b>	<b>\$3,311,232</b>	<b>\$54,461,200</b>	<b>\$54,709,689</b>

CURRENT OPERATING FUND, FUND DESIGNATED FOR SPECIAL PURPOSES AND FUND FUNCTIONING AS ENDOWMENT ARE UNRESTRICTED FUNDS.

MUSEUM PROPERTY FUND		RESTRICTED FUND		ENDOWMENT FUND		TOTAL ALL FUNDS	
1990	1989	1990	1989	1990	1989	1990	1989
						\$6,660,554	\$5,585,944
		\$1,870,680	\$1,810,040			2,403,526	2,309,432
\$1,518,126	\$1,619,832	883,382	869,863			5,473,163	5,799,923
15,901	(489,122)		28,238	(\$249,823)	\$696,139	(1,016,829)	2,601,878
		728,285	949,945	1,196,198	119,972	4,671,804	3,482,602
						557,514	510,634
						2,094,226	2,139,140
						3,911,775	3,719,542
888,928						1,160,732	181,507
2,422,955	1,130,710	3,482,347	3,658,086	946,375	816,111	25,916,465	26,330,602
		970,940	926,144			4,895,054	4,301,570
		697,985	800,518			2,213,787	2,368,292
		1,002				6,094,341	5,752,884
		69,595				1,720,550	1,703,055
226,132	188,637	48,004	107,152			1,937,909	1,920,649
			3,253			3,681,592	2,922,637
2,000,083	1,897,308					2,000,083	1,897,308
888,288	883,470					888,288	883,470
		466,257	546,806				
3,114,503	2,969,415	2,253,783	2,383,873			23,431,604	21,749,865
(691,548)	(1,838,705)	1,228,564	1,274,213	946,375	816,111	2,484,861	4,580,737
46,693,433	45,326,892			17,056,660	15,657,012	123,101,868	117,691,923
1,765,680	2,731,139	(833,351)	(1,274,213)				
		144,787		(159,516)			
		(540,000)			500,000		
	474,107				83,537		829,208
\$47,767,565	\$46,693,433	\$ -	\$ -	\$17,843,519	\$17,056,660	\$125,586,729	\$123,101,868

## SPECIAL GIFTS: RESTRICTED, CAPITAL, AND ENDOWED FUNDS

### INDIVIDUALS AND FAMILY FOUNDATIONS

\$100,000

Gladys N. Anderson Estate  
June B. Davis Estate  
Mrs. R. Winfield Ellis  
Mr. & Mrs. David W. Grainger  
(*The Grainger Foundation*)  
Mr. & Mrs. John H. Leslie  
(*The Leslie Fund*)  
Mr. & Mrs. Oscar G. Mayer  
(*Oscar G. & Elsa S. Mayer  
Charitable Trust*)  
Arthur Rubloff Estate  
Olive M. Shepherd Estate  
Mr. & Mrs. Jack C. Staehle  
Mrs. Theodore D. Ticken  
Lucille R. Wiser Estate  
The Women's Board

\$10,000 TO \$99,999

Anonymous  
Carolyn S. Akenson Estate  
Mrs. P. Kelley Armour  
Helen K. Bieker Estate  
Mr. & Mrs. Roger O. Brown  
Mr. & Mrs. Albert C. Buchler, Jr.  
(*ACP Foundation*)  
Mr. & Mrs. Richard H. Cooper  
(*Richard H. Cooper  
Foundation*)  
The Crown Family  
(*Arie & Ida Crown Memorial*)  
Dr. & Mrs. Edwin J. DeCosta  
(*The Walter E. Heller  
Foundation*)  
Mr. & Mrs. Thomas E. Donnelley II  
(*Thomas E. Donnelley II  
Foundation*)  
Jamee & Marshall Field  
Foundation  
Evelyn Frank Estate  
Mr. & Mrs. Paul W. Guenzel  
Mr. & Mrs. Charles C. Haffner III  
Mrs. Charles L. Hardy  
(*Elliott & Ann Donnelley  
Foundation*)

\* Deceased

Walter R. Hauschildt Estate  
Mr. & Mrs. Laurin H. Healy  
(*Winona Corporation*)  
Mrs. Beatrice C. Mayer  
Mr. & Mrs. Brooks McCormick  
(*Brooks & Hope B. McCormick  
Foundation*)  
Philip M. McKenna Foundation, Inc.  
Mr. & Mrs. Kenneth F.  
Montgomery  
Dessie P. Morrow Estate  
Mrs. Arthur T. Moulding  
Harry G. Nelson  
Mr. & Mrs. Samuel R. Rosenthal  
(*D & R Fund*)  
Norman J. Schlossman Estate  
The Seabury Foundation  
Edward Byron Smith  
(*Edward Byron Smith  
Charitable Fund*)  
Gretchen Stewart Estate  
Mr. & Mrs. Howard J. Trienens  
(*Howard J. & Paula M.  
Trienens Foundation*)  
Chester D. Tripp Estate  
Jane B. Tripp Estate  
Mr. & Mrs. Blaine J. Yarrington  
(*The Chicago Community  
Trust*)

\$1,000 TO \$9,999

Anonymous  
Mr. & Mrs. Lowell E. Ackmann  
(*Ackmann Family Foundation*)  
Mr. & Mrs. A. Watson Armour III  
Cynthia Armour  
Mrs. Lester Armour  
Mr. & Mrs. T. Stanton Armour  
Vernon Armour  
Mr.\* & Mrs. Edwin N. Asmann  
(*O. Paul Decker Memorial  
Foundation*)  
Abby K. Babcock Estate  
Kristina Barr  
(*Kristina Barr & George Barr  
Foundation*)  
Mr. & Mrs. Robert O. Bass  
Mr. & Mrs. Peter B. Bedford  
Louis Bein Estate  
Mr. & Mrs. Theodore A. Bell  
Mr. & Mrs. Harrington Bischof  
Mr. & Mrs. Philip D. Block III  
(*J. B. Charitable Trust*)  
Mr.\* & Mrs. Daniel J. Boone  
Mrs. G. E. Boone  
Mrs. Arthur S. Bowes  
Mr. & Mrs. Willard L. Boyd  
Helen D. Bronson  
Mr. & Mrs. Donald J. Cameron  
Mr. & Mrs. Worley H. Clark, Jr.  
Mr. & Mrs. Frank W. Considine  
Mr. & Mrs. Donald C. Cottrell, Jr.  
John R. Covington (*Howard L.  
Willert Foundation, Inc.*)

Mr. William S. Covington\*  
Elizabeth M. Covington Estate  
Mr. & Mrs. William S. Cowles  
A. G. Cox Charity Trust  
Mr. & Mrs. Mark Crane  
Mr. & Mrs. John V. Crowe  
Mr. & Mrs. Robert L. Cruikshank  
Mrs. Suzette Morton Davidson  
Mrs. Charles S. DeLong\*  
Mr. & Mrs. Howard M. Dean, Jr.  
Mr. & Mrs. Robert O. Delaney  
Mr. & Mrs. Gaylord Donnelley  
Mr. & Mrs. James R. Donnelley  
(*Nina H. & James R. Donnelley  
Foundation*)  
Elling O. Eide  
Mr. & Mrs. Gordon R. Ewing  
Mr. & Mrs. Thomas J. Eyerman  
William F. Farley  
(*William F. Farley Foundation*)  
Mary & Bruce Feay  
Mr. & Mrs. Reuben Feinberg  
(*Joseph & Bessie Feinberg  
Foundation*)  
Mr. & Mrs. Marshall Field  
Mr. & Mrs. Charles Robert Foltz  
Mr. & Mrs. Peter B. Foreman  
(*Peter & Virginia Foreman  
Foundation/Peroke Foundation*)  
Robin Foster  
Mr.\* & Mrs. Gaylord Freeman  
Mr. & Mrs. Marshall B. Front  
Josephine D. Galitzine Estate  
Mr. & Mrs. Gerald S. Gidwitz  
Elizabeth L. Girardi  
Mr. & Mrs. William B. Graham  
(*William B. Graham  
Foundation, Inc.*)  
William M. Hales  
(*Hales Charitable Fund*)  
Mr. & Mrs. Corwith Hamill  
(*Happy Hollow Fund*)  
Mr. & Mrs. King W. Harris  
(*Harris Family Foundation*)  
Mr. & Mrs. Charles C. Harrold III  
Mr. & Mrs. Robert S. Hartman  
Mr. & Mrs. Ben W. Heineman  
H. John Heinz III Trust  
Philip Hershkovitz  
Mr. & Mrs. Rembrandt C. Hiller, Jr.  
Elizabeth Hoffman  
Mrs. Harold James  
(*The Butz Foundation*)  
William B. Jeffries  
Mr. & Mrs. Clarence E. Johnson  
(*The Clarence E. & Shirley M.  
Johnson Foundation*)  
Mr. & Mrs. Curtis S. Johnson III  
Mr. & Mrs. Richard F. Jones  
Mr. & Mrs. Richard M. Jones  
Mr. & Mrs. Harvey E. Kapnick, Jr.  
(*The Kapnick Foundation*)  
Mr. & Mrs. John J. Kinsella  
Mr. & Mrs. Robert D. Kolar  
Mrs. Arthur H. Krausman  
Mrs. Bertram D. Kribben  
Mrs. John Woodworth Leslie

# TOTAL GIFTS, BEQUESTS, AND GRANTS

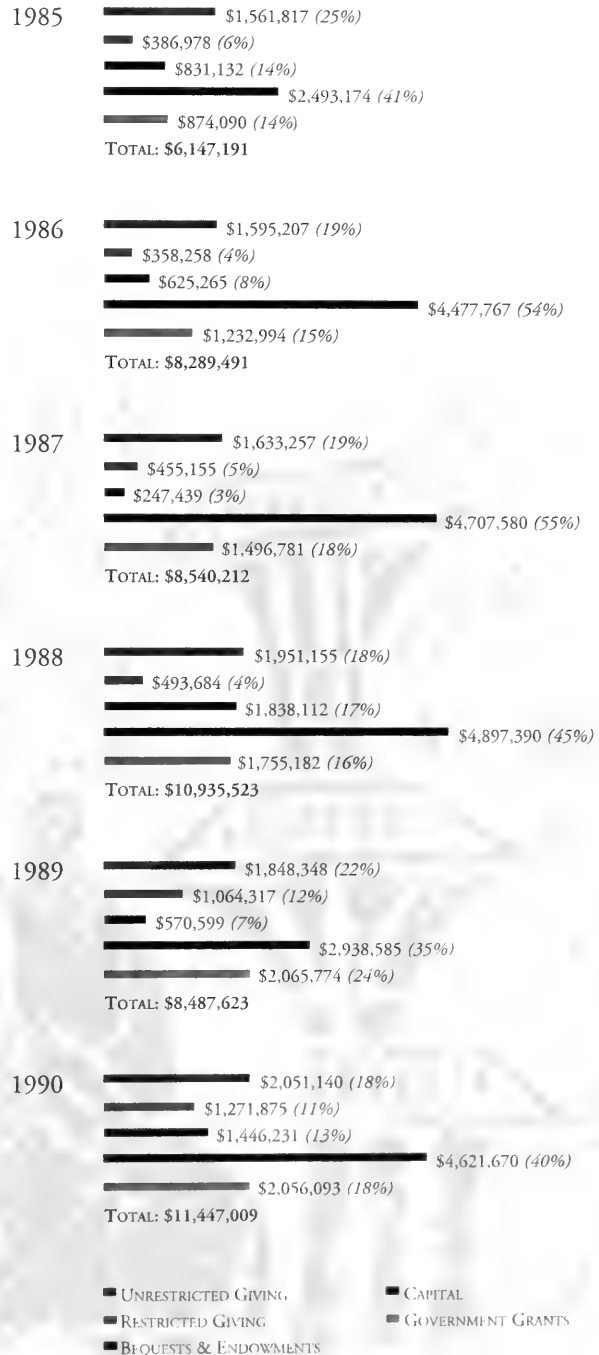
Dr. & Mrs. Edward H. Levi  
Mrs. Glen A. Lloyd  
Mr. & Mrs. Robert H. Malott  
*(Camalott Charitable Foundation)*  
Mr. & Mrs. Carter H. Manny, Jr.  
Dr. & Mrs. Richard E. Marcus  
Mr. & Mrs. Edward Matz, Jr.  
Cirilo McSween  
Mr. & Mrs. William J. McDonough  
Mr. & Mrs. Andrew McKenna, Jr.  
Mr. & Mrs. Allen C. Menke  
*(Menke Family Foundation)*  
Mrs. J. Roscoe Miller  
Mr. & Mrs. Philip B. Miller  
Miner-Weisz Charitable Foundation  
Mr. & Mrs. Newton N. Minow  
*(Minow Family Foundation)*  
Mr. & Mrs. Leo F. Mullin  
Miss Jeanne E. Murray  
Hisazo Nagatani  
Col. & Mrs. John B. Naser  
*(J B N Trust)*  
Mr. & Mrs. Stephen C. Neal  
Abbie L. Nelson  
Mr. & Mrs. Edward Neisser  
*(The Neisser Fund)*  
Mr. & Mrs. John Doane Nichols  
Mr. & Mrs. John K. Notz, Jr.  
Mr. & Mrs. James J. O'Connor  
Mr. & Mrs. Paul W. Oliver, Jr.  
Harry D. Oppenheimer II  
*(Oppenheimer Family Foundation)*  
Mr. & Mrs. James Otis, Jr.  
Mr. & Mrs. Donald W. Patterson  
*(The Warwick Foundation)*  
Mr. & Mrs. James R. Patton, Jr.  
Mrs. Pauline Yacketman Petre  
*(Pauline Yacketman Foundation)*  
Mr. & Mrs.\* Richard J. Phelan  
Mr. & Mrs. Allan M. Pickus  
Mr. & Mrs. John Pusinelli  
Mr. & Mrs. Neil K. Quinn  
Audree M. Ragan Estate  
Mr. & Mrs. Frank A. Reichelderfer  
Mr. & Mrs. Thomas A. Reynolds, Jr.  
Mr. & Mrs. John M. Richman  
George N. Ross Estate  
John W. Ruettinger Estate  
Mr. & Mrs. John S. Runnells  
Mr. & Mrs. Patrick G. Ryan  
Mr. & Mrs. Thomas R. Sanders  
Mr. & Mrs. Robert E. Sargent  
Mr. & Mrs. Charles E. Schroeder  
*(The Schroeder Foundation)*  
Mr. & Mrs. William L. Searle  
Mr. & Mrs. Richard J. L. Senior  
*(The Morgan-Senior Foundation)*  
Mr. & Mrs. Henry Shapiro  
*(Soretta & Henry Shapiro Family Foundation)*  
Mr. & Mrs. Thomas C. Sheffield, Jr.  
Mr. & Mrs. John R. Siragusa  
Mr. & Mrs. Jackson W. Smart, Jr.  
Mr. & Mrs. Malcolm N. Smith  
Mr. & Mrs. Stephen Byron Smith

Mrs. Frederick W. Spiegel  
*(Rush & Frederick Spiegel Foundation / H. H. Butler Foundation)*  
Mr. & Mrs. Roger W. Stone  
*(Roger & Susan Stone Family Foundation)*  
Mr. & Mrs. William S. Street  
*(The Seattle Foundation)*  
Dr. & Mrs. Robert H. Strotz  
Mrs. James Swartzchild \*  
*(Collier-Swartzchild Foundation)*  
Mr. & Mrs. John W. Taylor, Jr.  
Mr. & Mrs. John W. Taylor III  
Mr. & Mrs. Bruce Thorne  
Mr. & Mrs. Paul Vogel  
Harold K. Voris  
Mr. & Mrs. R. B. Walsh, Jr.  
Mr. & Mrs. Hempstead Washburne, Jr.  
Mrs. Imy Wax  
Mr. & Mrs. Roderick S. Webster  
Mr. & Mrs. William L. Weiss  
*(William L. & Josephine B. Weiss Foundation)*  
Mr. & Mrs. John L. Welsh III  
*(McCrea Foundation)*  
Mrs. B. Kenneth West  
Dr.\* & Mrs. Louis O. Williams  
Dr. & Mrs. Philip C. Williams  
Mr. & Mrs. Paul C. Wilson  
James R. Wimmer  
Winnetka Garden Club  
Mrs. J. Howard Wood  
Mr. & Mrs. William Wood-Prince  
Claire Zeisler

## \$100 TO \$999

Anonymous  
Mrs. Lester S. Abelson  
*(Lester S. Abelson Foundation)*  
Alicia Ann Adams  
Mrs. Keene H. Addington  
Mr. & Mrs. Joseph Adlesick  
Katharine D. Agar  
Janet Agranoff  
Mr. & Mrs. Edward K. Aldworth  
Sharon A. & M. Mehdi Alister  
Mr. & Mrs. Stanley N. Allan  
Dorothy K. Allen  
Mr. & Mrs. Thomas D. Allen  
Mr.\* & Mrs. James W. Alsdorf  
*(Alsdorf Foundation)*  
Julius Alvarez  
Mr. & Mrs. J. Robert Anderson  
Mr. & Mrs. John Anderson  
Mr. & Mrs. Kimball R. Anderson  
Sandra K. Anderson  
Mr. & Mrs. Scott M. Anderson  
Thomas W. Andrews  
Mr. & Mrs. Lester J. Anixter  
Mr. & Mrs. Bennett Archambault  
Mr. & Mrs. Angelo R. Arena  
Dr. & Mrs. David Ashbach

\*Deceased



■ UNRESTRICTED GIVING      ■ CAPITAL  
■ RESTRICTED GIVING      ■ GOVERNMENT GRANTS  
■ BEQUESTS & ENDOWMENTS



## SCIENTIFIC ILLUSTRATION

Four Field Museum artists produce illustrations of specimens and artifacts to supplement the research of the curatorial staff. They employ a broad range of techniques, but each has refined a particular style: Zbigniew Jastrzebski specializes in pencil or pen and ink stipple renderings of skeletal structures and reconstruction of pottery; Clara Richardson-Simpson in line and stipple representations of zoological and paleontological specimens; Marlene Werner in using carbon dust and scratch board techniques; and Zoriça Dabich in crow quill drawings of botanical subjects and water color paintings of South American monkeys.

Mr. & Mrs. Thomas G. Ayers  
Richard Badger/Inge Fryklund  
Mrs. Warner G. Baird, Jr.  
Edwardine M. Baker  
Mr. & Mrs. Paul E. Baker  
Lance C. Balk  
Dr. & Mrs. Eugene L. Balter  
Mr. & Mrs. James H. Bankard  
Walter Baranowski  
Mr. & Mrs. Norbert J. Barbahen  
Dr. & Mrs. J. W. Barnes  
Jane E. Barnett  
Mr. & Mrs. E. Keith Barns  
Mr. & Mrs. John E. Barrett  
Mr. & Mrs. Robert Baumgarten  
Lawrence W. Bay  
Mrs. George R. Beach  
Mrs. Robert A. Beatty  
Virginia L. & William K. Beatty  
Mrs. James H. Becker  
Dr. Helen R. Beiser  
Dr. Nenad Belic/Ellen Stone Belic  
Mr. & Mrs. William H. Bell, Jr.  
Coburn Bennett  
Mr. & Mrs. Edward H. Bennett, Jr.  
Mrs. B. Edward Bensinger  
Mr. & Mrs. Stephen Bent  
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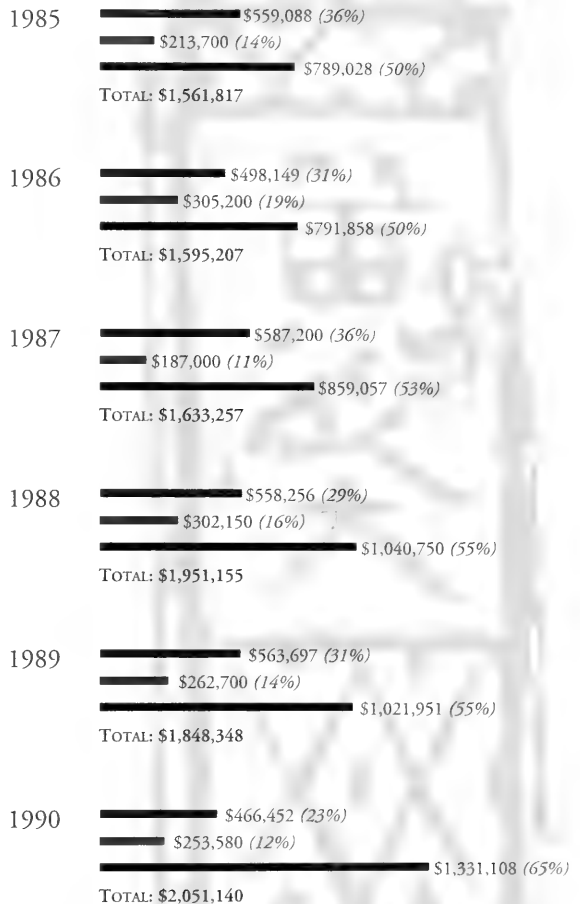


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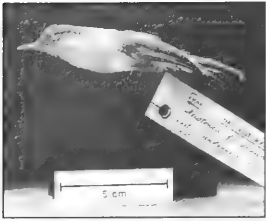
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\* Deceased



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NOTE: THIS CHART DETAILS THE "UNRESTRICTED GIVING" COLUMN SHOWN IN THE "TOTAL GIFTS, BEQUESTS, AND GRANTS" CHART ON PAGE 25.



## IN THE FIELD

The Museum's new membership publication, *In the Field: The Bulletin of the Field Museum of Natural History*, premiered in July 1990 with news of the discovery by Field Museum researchers in Madagascar of a living population of red-tailed *Newtonia* (above), a bird long thought to be extinct. The bimonthly newspaper features articles by curators and others on the Museum's research activities and public programs, and highlights events of interest to members.

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## MEMBERSHIP

Three members won trips to Hawaii and another a trip to New Zealand in raffles during the three-night members' previews of "Traveling the Pacific" (November 1989) and "Pacific Spirits" (November 1990). A special program featuring talks by Pacific exhibit developers in August 1989 drew more than 1,000 members

## ATTENDANCE

1985		1,089,167
1986		1,165,027
1987		1,156,184
1988		1,332,707
1989		1,498,208
1990		1,465,938



## THE NEW EXPLORERS

The Museum's Education Department, working with a group of Chicago teachers, the University of Chicago Lab School, and Argonne National Laboratory, developed a curriculum for fourth- to eighth-graders to accompany the "Islands in the Jungle" episode of *The New Explorers*, the PBS television series produced by Museum trustee Bill Kurtis. The series aims to teach science and to interest students in scientific careers by personalizing scientific adventure and discovery. ("Islands" features the work of Field Museum researchers in Peru.) The Museum is the repository for tapes of the series, which are available for loan to teachers along with teaching materials and hands-on activities for students. Amoco Corp. and Waste Management, Inc. have helped subsidize a national marketing campaign for the teaching materials. A second year of the series is in production, and the Museum is again participating in curriculum development.

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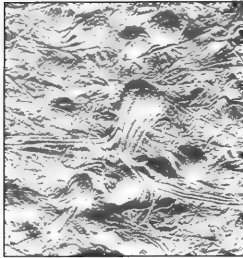
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An \$800,000 renovation of the Museum's paleontological research facilities has begun that will revamp some 6,700 square feet of laboratory space. Among the areas marked for improvement are the geomagnetics laboratory, the fossil and rock preparation facilities, and the image-analysis laboratory. The work is supported by a \$375,000 grant from the National Science Foundation and a \$200,000 commitment from the Arie and Ida Crown Memorial.

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THE COLLECTIONS STAND AT THE  
HEART OF THE FIELD MUSEUM'S  
MISSION AS A SCIENTIFIC INSTITUTION.

Dr. D. J. V. Smith, Department of Geology, during recent excavation in the Chilean  
Andes. Inset: Fossilized skull of a vertebrate. Background: Magnified view of a fossil  
skull, Department of Geology, in the Green River area of Wyoming.

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## FOSSIL PREPARATION

*The Museum's international reputation for high-quality fossil preparation was enhanced in 1990 with the successful casting of a 135-million-year-old fossil bird discovered in northeastern China, the oldest known modern bird. The fossil, embedded in cross-sections on either face of a fractured piece of rock, had defied conventional means of preparation. William Simpson, pictured opposite, used an acid solution to dissolve the bones, leaving a natural mold in the rock. A sprayed-on latex "peel" of the mold was used to create another mold in silicone rubber, from which durable epoxy casts were made.*



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University of Victoria, Canada  
University of Washington, Seattle  
University of Wisconsin Center -  
Waukesha County  
University of Wisconsin, Madison  
University of Wisconsin,  
Milwaukee  
Vanderbilt University, Nashville,  
Tennessee  
Waimea Arboretum & Botanical  
Garden, Haleiwa, Hawaii  
Dick Wason  
Molly A. Whalen  
Tony Young

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Black Hills Institute for Geological  
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South Dakota  
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Lee Campbell  
Mary Carman  
Jennifer Clack  
Peter Crane & Andrew Drinnan  
Aureal Cross  
R. Drachuk  
John Flynn  
Melhem Freiji  
Thomas Funderburk  
Allan Graffham  
Lance Grande  
Thomas Guensburg  
Richard Hebdon  
Jurgen Henzel  
James Hopson  
Walter Kühne  
Thomas Lindgren  
Michael Moore  
Museo Argentino de Ciencias  
Naturales, Buenos Aires,  
Argentina  
Museum of Paleontology,  
University of California,  
Berkeley, California  
Natural History Museum of  
Hradec Kralovc,  
Czechoslovakia  
Matthew Nitecki  
Michael Novacek  
Lanny Passaro  
Randy Patrick  
A. Peterson  
Ronald Pine  
Joe Pohl  
William Rieger  
Paul Sereno  
Carl Stock  
Peter Toepfer  
Yakimitsu Tomida  
William Turnbull

James Tynsky  
Rupert Wild  
Michael Woodburne  
Peter Wu  
Ellis Yochelson

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Philadelphia, Pennsylvania  
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Kumio Amoaka  
James Ashe  
Australian National Insect  
Collection, CSIRO, Canberra,  
Australia  
Margaret Baker  
George Barnett  
Karl Bartel  
Donald Baumgartner  
William Bemis  
F. Bonet  
Stephen Bortone  
William Braker  
R. Michael Brattain  
Barbara Brown  
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Christopher Carlton  
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Cornell University, Section of  
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Harley Falcon  
Amanda Fisher  
Timothy Gaudin  
Julio Gisbert  
Daniel Golani  
Steven Goodman  
Thomas Gosnoke  
William Gosline  
Lance Grande  
David Greenfield  
Gregory Guliuza  
Robert Hamilton  
Harris Educational Loan Center,  
Field Museum  
Harza Engineering, Chicago,  
Illinois  
Lawrence Heaney  
John Hechtel  
Phillip Hershkovitz

ed to the  
a. Above right  
research  
nd: A ceremonial stone  
the Museum by Judge  
amea during World War II

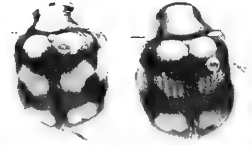
Leslie Hubricht  
 Rainer Hutterer  
 Michael Huybenz  
 Robert Inger  
 Douglas Johnson  
 Samuel Johnson  
 Anita Keller  
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 William Kephart  
 Julian Kerbis  
 Timothy King  
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 M.A. Latimer  
 Lincoln Park Zoological Society,  
 Chicago, Illinois  
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 Dianne Maurer  
 Peter Meserve  
 Kenneth Mierzwa  
 Toni Milewski  
 Alan Mootnick  
 Charles Nadler  
 Shun-Ichiro Naomi  
 Philippine National Museum,  
 Manila, Philippines  
 NMNH, Smithsonian Institution,  
 Washington, DC  
 Douglas Nelson  
 Harry Nelson  
 Alfred Newton, Jr.  
 North Carolina State Museum,  
 Raleigh, North Carolina  
 Roy Norton  
 Charles O'Brien  
 Lynne Parenti  
 Ronald Pine  
 Mitchell Pakosz  
 Townsend Peterson  
 Aldo Poiani  
 Norman Radkte  
 Michael Redmer  
 Michael Reed  
 David Rees  
 Alan Resetar  
 Luis Rivera-Cervantes  
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 Sacramento Zoo, Sacramento,  
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 John Sailor  
 Thomas Schulenberg  
 John G. Shedd Aquarium,  
 Chicago, Illinois  
 Thomas Simon  
 James Sipiora  
 Sylvia Solem  
 William Southern  
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 Steven Stephenson  
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Robert Stuebing  
 Kevin Swagel  
 William Szelistowski  
 William Taft  
 Donald Taphorn  
 Margaret Thayer  
 James Thomerson  
 Melvin Traylor  
 William Turnbull  
 Universidad Nacional Autonomo,  
 Mexico City, Mexico  
 The University of Chicago,  
 Chicago, Illinois  
 USSR Academy of Science,  
 Moscow  
 Bernard Verdcourt  
 Kevin Vulinec  
 John Wagner  
 Harlan Walley  
 David Ward  
 Floyd Werner  
 Max Wilcomb  
 David Willard  
 Louis Williams  
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 Kirk Winemiller  
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 Colombia  
 Masayuki Nakamichi  
 Mathew H. Nitecki  
 Larry Olin  
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 Victor Raul Pacheco-Torres  
 Alton J. Parker  
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 Djaja D. Soejarto  
 Michael Spock  
 John E. Stanton  
 Kenneth Starr  
 Lois Stein  
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 Guy Stresser-Pear  
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UNDERSTANDING AND RESPECT

FOR THE DIVERSITY

OF HUMAN CULTURES



in displays, providing a variety of specimens and artifacts for close-up  
four varieties of fine bone. Opposite (right): Nineteenth-century Nkisi  
Such figures are used for magical and ritual purposes.

The Field Museum is preparing a major permanent exhibit on the natural history and human cultures of Africa. It already has a major permanent exhibit on ancient Egypt.

QUESTION: Will this juxtaposition say to visitors that Pharaonic Egypt was somehow not an African civilization? What if anything should the Africa exhibit say about Egypt in the 2,000 years since Cleopatra?

QUESTION: If emphasis is placed in the new exhibit on the need to preserve the natural habitats of Africa's unique animals — the elephants, giraffes, hippos, apes, etc. — will this devalue the struggle to develop the continent's resources for its people?

QUESTION: If the display of "palace" art from Benin notes that the Medici collected the work of these artists, does that imply that "tribal" ceremonial and decorative artifacts are not of comparable artistic significance? Speaking of tribes — which, in fact, the exhibit will not do — if the exhibit is to

have ethnographic depictions of African cultures, should they include the "white tribes" of Kenya, Zimbabwe, and South Africa along with such communities as the Zulu, Shona, and Masai?

These are ethical and political as well as intellectual and aesthetic questions — there are many more just as complex — and the Museum's response to them requires thoughtfulness and sensitivity. Politics and ethics are implicated because of what one scholar calls "the politics of representation" — there are living people whose lives and societies will be affected by the images and ideas about Africa that the Museum's exhibit imparts to American popular culture. Moreover, images of Africa subtly influence both the self-image of African-Americans and the ways in which Americans of other races interact with them.

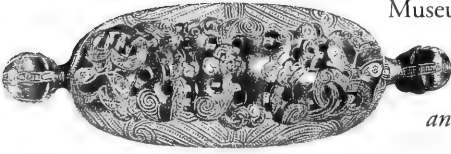
Such considerations arise not only in the context of the Africa exhibit, but in many areas of Museum activity. The issue of the propriety of certain kinds of displays, e.g., of



## PAJAMA PARTIES

*Museum Overnight programs have proved phenomenally popular with the public. Since July, 1990 they have been scheduled almost monthly by the Museum's Education Department. On a typical Overnight, 250 to 300 persons camp out in the exhibit halls. Each evening is programmed with a different theme and participants attend workshops, performances, and other events while seeing the exhibits in a different light. Overnights have been held for families, educators, and community youth groups.*

religious items not meant to be seen by non-initiates, comes up from time to time. The policy that guides the



Museum in these matters is one of *cultural understanding and mutual respect* — a

respect for the internal validity of every human culture; the idea that, while uniquely the product of a certain kind of Western culture, the Museum should be a bridge between the West and others; a sense of the Museum's responsibility to those whose cultures are represented in its collections and exhibits, as well as to the diverse people of its home community.

In putting together the Museum's permanent exhibit on the Pacific, for example, the developer, Phyllis Rabineau, consulted with the directors of the national museums in Tahiti, Papua New Guinea, the Marshall Islands, and Vanuatu. Among other things, these discussions helped the developers avoid giving the impression that Pacific cultures are frozen in time, despite the fact that the

Museum's collections largely represent the first two decades of this century.

The director of the Alele Museum in the Marshalls urged Rabineau to use a contemporary working outrigger canoe in the exhibit, with all the additions and modern materials that contemporary Marshallese have substituted for "traditional" design and construction; the resulting display, says Rabineau, "has an integrity that a reconstruction or a restored 19th-century piece would not have." Marshallese also created all the roof-thatching used in the exhibit.

Exhibition of human remains is another extremely delicate subject, and here too Rabineau's consultations proved valuable. The director of the National Museum of Papua New Guinea advised that it would be inappropriate to display the skulls — trophies of headhunting — that would normally have been in the windows of a Iatmul men's house such as was planned for the exhibit. On the other hand, the director of the Vanuatu Cultural Center saw no problem with

## PUTTING GOSSAMER ON DISPLAY

Many of the objects in the Museum's Pacific collections are made of materials as fine as spider web and beetles' wings. They were not made to last, yet some have been in the Museum 80 years or more. Before such objects could be displayed in the "Pacific Spirits" exhibit, the staff of the Division of Conservation had to ensure that they would survive the exposure — a complex task requiring object-by-object treatment. Some objects incorporating plant materials were stabilized with methylcellulose, and a large broken leaf was repaired with Japanese tissue and wheat starch paste; both substances can later be removed if necessary. Even the lighting in the exhibit was set to protect the artifacts.

of valued heirlooms

ight: A Chevenne toy

l in Montana by S.G. Simms in 1907



the display of a rambaramp — a memorial figure that incorporates the skull of a respected member of the community — so long as it was placed high enough that no woman could look down on it. (In “Pacific Spirits,” the rambaramp stands so tall that all visitors of both sexes must look up to it.)

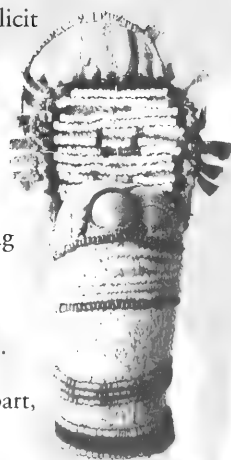
Jonathan Haas, the Museum’s vice president for collections and research, has been consulting with Native American groups for what he says is “a first start in reorganizing the Native American exhibits and a first start on a new dialogue with Native American peoples.” Representatives of the Hopi, Blackfeet, Blood, and Iroquois have been to the Museum recently to review materials related to their communities “and give us counsel on the appropriateness of the exhibits and the treatment of the collections,” says Haas, who along with President Willard L. Boyd was very much involved in the discussions among museum professionals, Native American leaders, and members of Congress that led in 1990 to passage of the Native American Graves Protection and

Repatriation Act. (All human remains have been taken off exhibit in the Native American halls.)

The sensibilities of Native Americans and of women visitors to the Museum were at issue in the case of the “Sacrifice to Morning Star” segment of the Pawnee exhibit. A diorama shows a human sacrifice, specified as requiring a female victim kidnaped from a neighboring tribe. A visitor from Ohio, Ann Throckmorton, was appalled by what she felt was a racist and sexist portrayal of violence against women, and wrote a letter to that effect demanding that the diorama be removed. Michael Spock, vice president for public programs, decided to display Ms. Throckmorton’s letter and to solicit comments from other visitors. Some 4,500 visitors replied, most to the effect that “You can’t rewrite history” or that depictions of differing cultural norms were the essence of anthropological exhibits in museums. The Pawnee Tribal Council, for its part,

## NEWS AROUND THE WORLD

*News of the Field Museum is reaching diverse audiences around the world. Through the Public Relations Department, nearly 7,000 print and broadcast media stories were generated in more than 111 foreign countries plus 26 states and 100 cities in the United States in 1989 and 1990. Highlights were major stories in The New York Times, Town and Country, CNN, Japan television, and the Canadian Broadcast Company.*



## FORD CITY

*The Museum's first satellite store opened in November, 1990 in the lower-level arcade of the Ford City shopping mall south of Midway Airport. The 2,200-square-foot store offers books, toys, clothing, jewelry, and art from many cultures and programs a variety of educational and cultural events throughout the year. Ford City is Chicago's largest mall and serves the most diverse clientele.*



said that “though we are not proud of it, it is our history and should stay on view.” As a result of the controversy, however, several errors were corrected — the sacrifice should have been facing east, not west; women as well as men participated in the ceremony, etc. It was also apparent that the exhibit labels were inadequate, and these were expanded to give greater context for the ceremony.

Temporary exhibits and the Museum’s education department also emphasize cultural understanding and respect, from weekend musical offerings to the long-term Outreach Program that takes museum-based cross-cultural programming to eight AfricanAmerican, Hispanic, and Asian Chicago neighborhoods where surveys indicate few people ever attend museums. The annual Neighbors Night brings thousands of residents of these neighborhoods to the Museum, where they can sample not only the “fun” parts of each other’s cultures — music, food, dance,

etc. — but the wider and deeper perspectives on the world that the Museum’s collections and exhibits offer. For both school and family groups, the education department also produces annual festivals celebrating Hispanic-American and African-American heritages.

For more than two decades, the education department and the Chicago Public Schools’ office for gifted students have conducted the Field Museum Honors Science Program, a museology course for high-school students that has always enrolled students from varied ethnic backgrounds. In 1990, for the first time, the department began a similar course for gifted junior-high students who have not yet mastered English; these students have prepared an exhibit on Mexican and Mexican-American Day of the Dead observances that will be mounted in the Webber Resource Center in the fall of 1991.

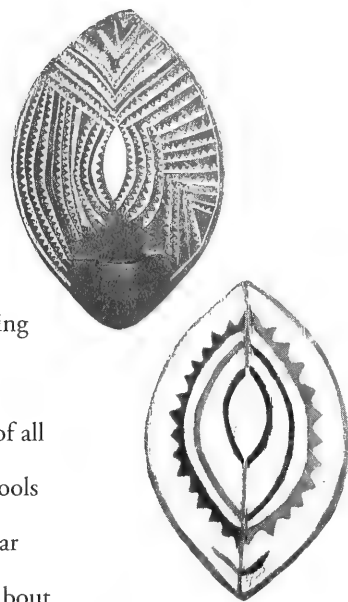
among the Ashanti of Ghana, worn for mourning. Stamped designs include, at left, a symbol of faithfulness, and, in the background, a symbol of the power of God.

will include material on the African diaspora in the Americas, making direct the link — via the slave trade — between Chicago's largest ethnic community and the social and political history of Africa.

Early on, the Africa Project staff held a series of community forums to discover what people wanted or needed to know and to discover community resources that might feed into the project. One of the reasons for choosing to do an exhibit on Africa rather than on, say, Asia or Latin America, according to Michael Spock, was the importance of the black community in Chicago and the fact that, other than school groups, the Museum drew relatively few black visitors. By creating an innovative exhibit through an innovative process, the Museum could speak to that community through its collections, and the black community could speak to the larger society through the Museum.

developed cooperative relationships with Chicago's DuSable Museum of African-American History and with two museums in Africa. Africable, a 13-week cable-television phone-in program produced by the project team, introduced Chicagoans to African nationals and emigrés living in the area.

Thirty fifth-graders of all races from city and suburban schools were enlisted in 1988 in a five-year museology program, "Learning About People and Museums"; they have produced a mini-exhibit on common misconceptions about Africa and, with their questions and responses, have helped the project staff to refine exhibit concepts. The students, as tenth-graders, will become docents when the exhibit opens in 1993. They have learned a good bit about Africa, a great deal about life and work in a great museum, and most of all about each other. "Cultural understanding and mutual respect" has become part of their culture.\*





## Half the 50 volunteers

who served as exhibit guides were "Eyewitnesses," people who had survived the camps or were children of survivors or members of the liberating armies. These volunteers were able to sit down with visitors, especially children, and bring to life an almost incomprehensibly vile period of history.

Other volunteers were trained to move through the exhibit, answer questions from children and adults, deal with sensitive issues and situations, and help children assimilate the experience, trying to show how even simple schoolyard bullying and stereotyping can contribute to institutionalized discrimination and violence.

## DESIGN AND PRODUCTION

Barbara Beardsley  
Joseph Byrnes  
Michelle Corrazzo  
Susan Dalipagic  
Sandra Erjavac  
Naomi Pruchnik  
Linda Schubert  
Gus Sisto  
Terri Smolin  
Selene Wacker

## WEEKLY EDUCATION

Paul Adler  
Shirley Anderson  
Dee Arbanas  
Pamela Armstrong  
Jean Baldwin-Herbert  
Michael Bardwell  
Gwen Barnett  
Paul Basile  
Jeanne Bedrosian  
Ruth Berns  
Frieda Bernstein  
Sidney Bernstein  
Katherine Bisping  
Blanche Blumenthal  
Nada Boulos  
Lloyd Bradbury  
Judith Brower  
Olga Buenz  
Joseph Byrnes  
Irene Cantine\*  
Alice Cap  
Kitty Carson  
Linda Celesia  
Mary Sue Coates  
Artemic Cosentino  
Ellie DeKoven

## Nearly 400 volunteers

devote time regularly to the Museum, working as unpaid part-time staff. Each year, they contribute the equivalent of 22 full-time positions which, if salaried, would cost more than \$500,000.

Volunteers perform critical services throughout the Museum, but perhaps none have done work so difficult, or so rewarding, as those who staffed the traveling exhibit "Remember the Children" in the winter and spring of 1990. The exhibit examined the horrors of the Nazi extermination camps through the eyes of the 1.5 million children — Jewish, Gypsy, retarded, or physically handicapped — who were murdered in them from 1933 to 1945.

## ANTHROPOLOGY

Dee Aiani  
Patinya Ambuel  
Carole Anderson  
Dodie Baumgarten  
Garland Brown  
Sol Century  
Birdie Chang  
Elizabeth Cheetham  
Peter Coey  
James Coplan  
Ralph Cowan  
Connie Crane  
Jeannette DeLaney  
Elizabeth Dinsmore  
Patricia Dodson  
Molly Donovan  
Paul DuBrow  
Jack Ewing  
Andrew Fahlund  
Josie Faulk  
Mitzi Fine  
Lisa Flanagan  
Kirk Frye  
Vesna Garber  
Madeleine Garceau  
Peter Gayford

Ann Gerber  
Margaret Farwell Goes  
Leah Goldberg  
Robert Gowland  
Deborah Green  
Lisa Heidel  
Noreen Jolley  
Rebecca Kammerer  
Lisa Labinger  
Stephanie Lako  
Cecile Leroux  
Jane Levin  
Betty Lewis  
Valerie Lewis  
Kathy Lutarewych  
Jack MacDonald  
Theresa McGill  
Andrew MacLeod  
Sam Mayo  
Withrow Meeker  
Carolyn Moore  
George Morse  
Mary Nelson  
Louise Neuert  
Herta Newton  
Irmgard Nirschl-Rauch  
Laura Nunez  
Susan Parker

Paula Phillips  
Dorothea Phipps-Cruz  
Julie Pitzten  
Marina Post  
Michael Popowits  
Carla Reiter  
Robin Rinehart  
Marea Sands  
Lisa Shogren  
Llois Stein  
Margo Thayer  
Ika Tomaszewsky  
Julius Wagman  
David Walton  
Theresa Williams  
Wang-Fai Wong  
Ed Yastrow

## ARCHIVES

Chloe Cornell  
Aimee Drolet  
Kinberley Krause  
Julia Mond  
Charlene Rehbock  
Tania Ryan  
Amy Sliwinski  
Frances Stromquist

## BOTANY

Virginia Beatty  
Arun Dabholkar  
Liz Farwell  
Peter Fortsas  
Terry Gillespie  
William Gillespie  
Daniel Goldfarb  
Dennis Hall  
Nancy Harlan  
Patricia Jasaitis  
Sharon Kramer  
Sandra Lee  
Lillie Mannings  
Margaret Martling  
Selwyn Mather  
Paula Morales  
Stella Muir  
Naomi Pruchnik  
Joseph Salzer  
Hana Sawyer  
Martha Singer  
Dan Snyderacker  
Haydee Trainer  
Randy Upton



Cynthia Chefec Dezara  
Violet Diacou  
Phyllis Dix  
William Duvall  
Aldona Dziedzic  
Kitry Egan  
Toby Ehrlich  
Jenny Elliott  
Geraldine Enck  
Rhoda Feldman  
Mitzi Fine  
Barbara Fisher  
Mimi Fiszal  
Lisa Flanagan  
Liz Flury  
Toby Frankel  
Alta Mae Frobish  
Mimi Futransky  
Rhoda Gellman  
William Gellman  
Patricia Georgouses  
Wayne Gerdes  
Delores Glasbrenner  
Kathleen Gleason  
Alvin Goldblatt  
Janis Goldman  
Halina Goldsmith  
Phyllis Goldstein  
Mary Griffin  
Ann Grimes  
Judith Hannah  
Curtis Harrell  
Shirely Hattis  
Penny Haynes  
Helen Helfgott  
Eselean Henderson  
Audrey Hiller  
Jack Hoffman  
Tina Fung Holder  
Harold Honor  
Zelda Honor  
Ruth Hostler  
Sandra Hubbel  
Deke Hundley  
Ellen Hyndman  
Ursula Jacobius  
Connie Jacobs  
Sheila James  
Brian James  
Arlene Johnson  
Nancy Johnson  
Venice Johnson  
Ellie Kadan  
Tirza Kahan  
Rosemary Kalin  
Julie Kay  
Joan Kelly  
Katharine Kelly  
Milton Kohn  
Kimberley Krause  
Dianne Kueck  
Mary Beth Kwasek  
Carol Landow  
John Lawson  
Michael Lenzi

Patricia Levinson  
Ruth Lew  
Catherine Lindroth  
Frances McBee  
Louise McEachran  
Clifford Massoth  
Britta Mather  
Selwyn Mather  
Melba Mayo  
Beverly Meyer  
Sara Meyers  
Candace Minks  
Harriet Molloy  
Gayle Morgan  
Virginia  
Newton Catherine  
O'Brien  
Joan Opila  
Anita Padnos  
Kay Pickett  
Irene Poll  
Maureen Powell  
Ellen Quinn  
Dan Reilly  
Elly Ripp  
Jerry Ripp  
Barbara Roob  
Sarah Rosenbloom  
Anne Ross  
Isabella Rzepka  
Joseph Salzer  
Lucille Salzer  
Randi Savitzky  
Marianne Schenker  
Sol Schindel  
Florence Selko  
Jessie Sherrod  
Ethel Shiner  
Terri Smolin  
Arlene Specht  
Mary Lou Stanley  
William Stanley  
Helen Stein  
William Stein  
Ben Stern  
Louise Suhajda  
Bernard Sullivan  
Ruby Suzuki  
Christine Szorc  
Jane Thain  
Mark Weinberg  
George Wolnak  
Sally Wood  
Zinette Yacker  
Adele Zaveduk

#### WEEKEND EDUCATION

Janet Archer  
Jacqueline Arnold  
Terry Asher  
Sandra Atkinson  
Lynne Bailey  
Lucia Barba

Cynthia Bassett  
Susan Bee  
Timothy Benally  
Susan Bennett  
Elaine Bernstein  
Anne Ursula Bielski  
Karen Boton  
Jennifer Botte  
Johanna Brainin  
Ricky Brainin  
Fran Braverman  
Carol Briscoe  
Carol Brna  
Nancy Burke  
Madelyn Bushnell  
Joseph Cablk  
Renee Calderon  
Alice Cap  
Mary Cheshareck  
Nicole Collins  
Norma Cotton  
Leslie Cox  
Karin Dahl  
Anthony Davis  
Elaine Day  
Millicent Drower  
Josef Duanah  
Faye Dulcy  
John Dunn  
Linda Egebrecht  
Jo Elworthy  
Bonnie Engel  
Carlos Flores  
Amy Franke  
Debra Jean Frels  
Fritzie Fritzhall  
Barbara Gardner  
Bernice Gardner  
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## PHOTO RESTORATION

*Among the Museum's collection of half a million photographs are some 20,000, dating from 1920 to 1950, that were taken using nitrate-based film before it was known that such film was chemically unstable. In 1989 Nina Cummings, photo researcher in the Department of Photography, and an outside contractor, the Chicago Albumen Works, began a two-year project, funded by the National Endowment for the Humanities, to restore and conserve this portion of the collection. Photo collections that have been saved include Malvina Hoffman's round-the-world studies for her epic sculpture project, "The Races of Man," and Anne Fisher's portraits, landscapes, and architectural photos of Iraq in 1928.*

Background: Housefront in Kano, Nigeria, from a photo taken during the Strauss West African Expedition of 1934. Above, right: Tang Dynasty (618-907 A.D.) mortuary figure of a woman playing polo. Both photos were among those saved in the Museum's preservation project.



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Portraits (pages 3, 4, 12, 34 & 38): Marc PoKempner.

New photographs of artifacts and specimens were taken for this project by John Weinstein, the Museum's head photographer.

Special thanks to Nina Cummings and the photography staff — Mark Alvey, James Balodimas, Linda Dorman, and Diane Alexander White — for their help in coordinating and reproducing images for this report.

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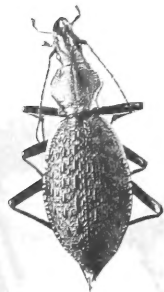
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## ON THE COVER

Background: Members of the Field Museum and their families during Members' Night, 1991.

Front cover, top right, is a fossil sting ray, 49 million years old, collected by Lance Grande in the Green River area of Wyoming; center left is the fruit of *Anona glabra*, a member of the custard apple family, collected in 1983 by R.G. Stolze along the banks of the Sebastian River in Florida; below is an ornament of office (a staff with silver fish and Peruvian coins) worn by elected leaders of Aymara Indian communities in Peru, collected by Charles Stanish in 1990.

Back cover, upper left is a Chinese ground beetle, *Carabus lafossei giganteus*, a rare species often found in Chinese apothecary shops for use in traditional medicine; below is a multicolored beaded bandolier bag, probably Seminole, ca. 1840, of unusual design, including the human figure on the flap.



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