

AMERICAN MUSEUM OF NATURAL HISTORY

Annual Report 2006





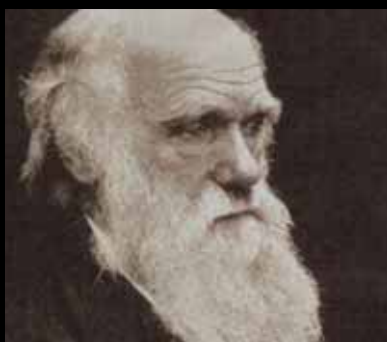
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REPORT OF THE CHAIRMAN AND PRESIDENT

This year was an exceptionally important one for the American Museum of Natural History with a number of significant events and programs that extended the Museum's mission, guided by an institutional vision of preparing the next generation of scientists, the current and next generation of citizens, and improving the public understanding of science. In this report we are pleased and proud to give an overview of the Museum's activities during the fiscal year that began July 1, 2005, and ended June 30, 2006.

First, however, we pause to note that the Museum community has lost three pillars. William T. Golden, our superb former Chairman, Chairman *Emeritus*, and a Trustee since 1969, died on October 9, 2007. Throughout his distinguished and highly influential career, Bill dedicated himself to increasing the understanding of science among both the public and policymakers. He was one of the Museum's guiding stars, and we were privileged to have his outstanding leadership and able hand during a time of important institutional growth. His support helped the Museum build vanguard research programs in such areas as microbial biology, and created the Golden Corridor of Science, which extends through the Museum's research areas, bridging scientists and disciplines.

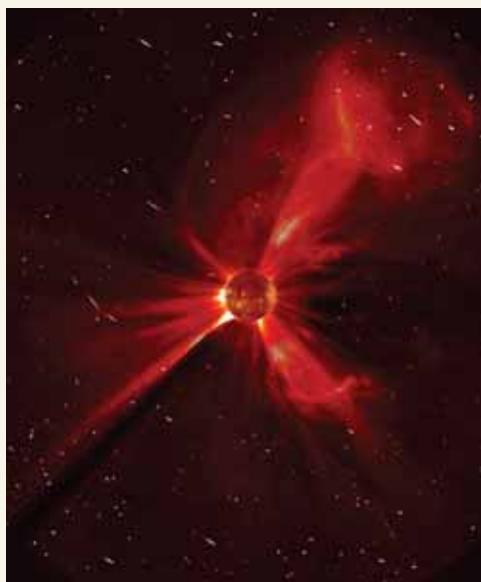
We also note with great sadness the death on September 10, 2007, of our beloved Trustee Arthur Ross, a great New Yorker, an engaged citizen of the world, and a man of the utmost intelligence, integrity, taste, and generosity. An active and involved Trustee of the Museum for 28 years, Arthur was devoted to science, culture, education, and to beautifying New York for the benefit and pleasure of all. His impact at the Museum can be seen in the cutting-edge Arthur Ross Hall of Meteorites, the magnificent outdoor Arthur Ross Plaza, and in his longstanding support for our exhibition program.



And on June 14, 2006, Curator, Senior Vice President, and former Dean of Science Craig Morris died unexpectedly. In addition to being one of the world's most influential archaeologists and scholars studying the Inka of Peru, Dr. Morris was an important leader to the Museum community over three decades, providing exceptional scientific and administrative leadership at a key time of growth and outreach in the institution's history. Craig embodied many of the highest attributes and qualities we look for in both a scientist and a colleague—

intellectual rigor, scientific integrity, wisdom, and warm friendship.

Each of these three extraordinary individuals will continue to be a touchstone and an inspiration for all of us at the Museum. They will be remembered, emulated, and missed terribly.



This year, in a historic extension of the Museum's mission in education and science, the Museum took steps to formalize its longstanding graduate training programs, which, for many decades, have trained graduate students in partnership with leading universities. Following a long process of self-study, planning, and the hosting of evaluative visiting committees, the Museum

developed and submitted to the New York State Board of Regents a comprehensive application to become a Ph.D.-granting institution. In October 2006, the New York State Department of Education approved the Museum's application making the Museum the first American museum authorized to grant the Ph.D. degree, clearing the way for the establishment of the Richard Gilder Graduate School at the Museum and enabling the Museum to stake a position of leadership in defining the educational role for museums in the 21st century. We note with special gratitude and admiration the leadership support of Richard Gilder, for whom we are honored to name the new Graduate School.



Leveraging the Museum's longstanding leadership in biology and the burgeoning of the field in what has been called "the century of biology," the Gilder Graduate School's first Ph.D. program will be in comparative biology. This initiative will be discussed more fully in future Annual Reports, but we pause here to acknowledge the superb work and leadership of Provost and Senior Vice President Michael J. Novacek and the Scientific Senate Graduate School Task Force, which consisted of Curator Ward Wheeler, who served as Chairman, Curator Mark Norell, Curator Nancy Simmons, and Center for Biodiversity and Conservation Director Eleanor Sterling. We thank the entire curatorial staff for its support for and commitment to this thrilling new venture.

Finally, we note with enthusiasm the appointment of John Flynn, Curator and Chairman of the Division of Paleontology, as the first Dean of the Gilder Graduate School.

With regard to public education, one of the most visible and significant initiatives of the year was the presentation of a major exhibition on Charles Darwin, part of a series of Museum exhibitions on great figures such as Einstein and Leonardo da Vinci. The Museum embraced the opportunity not only to explain the importance of Darwin's theory to the entire field of biology and to present the person of Charles Darwin himself, but also to educate the public about the nature of scientific inquiry and the scientific process. During the exhibition's presentation in New York 432,794 people visited *Darwin*, a testament to the public's hunger for trusted information about topical issues. And like most of the Museum's temporary exhibitions now, once *Darwin* closed at the Museum, it began a tour of venues across the country and around the world, exponentially extending its educational reach and impact. Indeed, this year, nine Museum exhibitions and three Space Shows were on the road to venues worldwide.

The new Rose Center space show, *Cosmic Collisions*, opened in February to great acclaim. Curated by Astrophysics Curator Michael Shara in partnership with NASA and with the partici-

pation of no fewer than 25 eminent scientists from around the world, *Cosmic Collisions* explored, in thrilling and eye-popping ways, the dynamic and violent processes that shaped—and continue to affect—our solar system and universe. Narrated by Robert Redford, *Cosmic Collisions* explored a burgeoning field of astrophysics research which has been a focus of work in the Museum's Department of Astrophysics.

This year, the public was also treated to the culturally rich and beautiful exhibition, *Totems to Turquoise: Native North American Jewelry Arts of the Northwest and Southwest*. The exhibition showcased both the Museum's own historic

collections but also benefited from partnerships with some of the most eminent contemporary jewelry artists from these two regions in which jewelry has a long and significant cultural importance.

In addition to presenting the eighth annual installment of the ever-popular *The Butterfly Conservatory: Tropical Butterflies Alive in Winter!* the Museum continued the "live" tradition with *Lizards and Snakes:*

Alive!, a fun and fascinating exhibition of 60 charismatic representatives of the highly diverse and ancient squamate family.

With all these wonderful offerings as well as 45 permanent exhibition halls, the Museum continues to be the number-one field trip destination for New York City schoolchildren, hosting nearly 500,000 children in school and camp groups each year. With a long and active commitment to supporting teachers, the Museum reaches nearly 7,000 K–12 teachers each year with professional development programs—both onsite and online. And the Museum continues to be a popular with families and is ranked the number-three family destination in the United States in the Zagat Family Travel Guide, and number-one in New York City.

One of the Museum's most important and groundbreaking new educational initiatives is Urban Advantage, an unprecedented five-borough consortium of New York City's science-rich cultural

// Long considered a 'trusted guide' to science, nature, and culture, the Museum takes very seriously its responsibility to prepare the next generation of scientists as well as the next generation of citizens. //



institutions, conceived of and led by the Museum in partnership with the New York City Department of Education. Based on the notion that New York City schoolchildren actually have an "advantage" due to the array of local science resources, Urban Advantage brings together the Museum, the New York Botanical Garden, the Wildlife Conservation Society/Bronx Zoo, the New York Hall of Science, the Brooklyn Botanic Garden, the Queens Botanical Garden, the New York Aquarium, and the Staten Island Zoo, and integrates their content and resources into the formal education system to improve science teaching and student achievement in science at the middle school level. Urban Advantage was launched in 2004 with support from the City of New York and the New York City Council and in this its second year reached more than 19,000 7th and 9th grade students and 195 teachers in 111 schools. Based on Urban Advantage's demonstrated success in New York, the Museum is currently investigating scaling up the program for application in other cities nationwide.

Urban Advantage is a keystone program of the Museum's newly established David S. and Ruth L. Gottesman Center for Science Teaching and Learning, named in honor of an extraordinary \$10 million gift from Trustee David S. Gottesman and his wife Ruth. Embracing all of the Museum's activities that support K-12 schools, students, and teachers, the Gottesman Center leverages the Museum's resources to help improve student performance and teacher capacity in science. A mix of professional development for teachers, curriculum development, and special programs and materials brings the excitement of scientific discovery to schools and teachers in New York City and across the country.

All of these achievements and others too numerous to mention are made possible by the tremendous support from the Museum's family of benefactors. On March 5, 2005, the Museum held a Founders Dinner gathering together Museum supporters and friends, including the descendents of some of the Museum's founding families for a very special evening. That night, we celebrated the history and future of this great institution and officially launched a new fundraising campaign, *The New Challenge: Meeting the Demands of Science and Society*, with an \$850 million goal to support the Museum's research and educational activities, with an important and concerted

focus on building the endowment and thereby strengthening the Museum for a bright, strong, and stable future.

The Campaign momentum continued strongly and, by June 30, 2006, had raised \$635 million, or 75% of its goal, for a range of initiatives. Significantly, this figure includes \$210 million in new endowment. We are most deeply indebted to the Museum's Trustees for their generosity, involvement, interest, and hard work in spearheading the Campaign and providing inspiring leadership support and championing the Museum's success and effectiveness for the 21st century and beyond.

One extraordinary leadership gift came from Trustee David Koch, who gave \$20 million, in recognition of which the Museum has dedicated the popular and award-winning dinosaur halls as the David H. Koch Dinosaur Wing. Trustee Dorothy Cullman and her husband Lewis made an extraordinarily enlightened commitment to secure the future of the Lewis B. and Dorothy Cullman Program for Molecular Systematics Studies through lifetime annual gifts of \$500,000 and a testamentary gift of \$10 million. Anne and Bernard Spitzer made an extremely generous gift of \$15.5 million to support the new Spitzer Hall of Human Origins, scheduled to open in early 2007. The Sackler Foundation made a wonderful gift of \$11 million to support the Sackler Institute for Comparative Genomics and, with the special enthusiasm of Trustee Ilene Sackler Lefcourt, to enable the Museum to include an educational laboratory in the new Spitzer Hall of Human Origins. An anonymous Trustee made a \$15 million gift to support a range of the Museum's activities. The late Arthur Ross and his wife Janet made several leadership gifts totaling \$6 million for an endowment to support enhancements to the Ross Terrace and the Ross Hall of Meteorites and \$1.5 million to restore the 77th Street Plaza as part of the comprehensive restoration of the Museum's historic castle façade. To support the new Gilder Graduate School, Trustee Norma Hess made a leadership gift of \$3 million to create the Hess Graduate Fellowships in Comparative Biology.

Trustees making gifts of \$1 million included Chairwoman Emerita Anne Sidamon-Eristoff, through the Howard Phipps Foundation, to the endowment; Jonathan Rose to endowment in support of the Rose Center; Charles H. Mott to support



Akeley Hall of African Mammals

Museum programs; Sibyl R. Golden, through the Golden Family Foundation, to endow fellowships for graduate students; Valerie Peltier to create the Valerie and Jeffrey Peltier Fund in support of the Center for Biodiversity and Conservation (CBC). Trustee Walter V. Shipley pledged \$500,000 to the endowment. In addition, in 2004, a group of Museum Trustees pledged a total of \$7.7 million to create an endowed chair for the Museum President.

Several other individuals made significant gifts including \$1.5 million from the Carroll and Milton Petrie Foundation to support the collaboration between the Museum and New Visions for Public Schools; \$1 million from Paul Newman, through the Paul Newman Foundation, to enable the astrophysics researchers to participate in the South African Large Telescope (SALT) program; \$1 million from the Miriam and Ira D. Wallach Foundation to an endowment to support visits by New York City public school students; \$1 million each from two

anonymous donors for Museum programs; and \$500,000 from Mr. and Mrs. Arnold Goldstein to name the Laetoli diorama in the new Spitzer Hall of Human Origins.

Foundations providing major support included the Andrew W. Mellon Foundation whose \$5 million endowment challenge grant supported revenue-generating projects including content dissemination and traveling exhibitions. The Charles Hayden Foundation made pledges totaling over \$2.7 million including \$2.5 million for technology needs in the Hayden Planetarium and \$295,512 in renewed support for the Astrophysics Enrichment and Research Program. The CBC received important support from the John D. and Catherine T. MacArthur Foundation, with several gifts totaling over \$1 million, including \$500,000 to support the Madagascar Training Program, \$225,000 to support the NCEP program in Latin America, and \$325,000 for the conservation and monitoring project in Vietnam and Laos PDR. The Irene Diamond Fund pledged



Hayden Planetarium Space Theater



\$1 million to the endowment to support exhibitions, the Starr Foundation pledged \$1 million to the endowment, and the Louis Calder Foundation pledged \$800,000 for support of the Gottesman Center for Science Teaching and Learning. Both the Cleveland H. Dodge Foundation and the William Randolph Hearts Foundations made gifts of \$500,000 to support education programs.

Support from corporations included \$2 million from Bloomberg LLP to support the new Paleontology Moveable Museum and the Rose Center Audio Tour; \$750,000 from Bank of America to sponsor the exhibition *Dinosaurs: Ancient Fossils, New Discoveries* and related educational programming; \$600,000 from The CIT Foundation to sponsor the *Cosmic Collisions* space show; \$600,000 from Citigroup Inc. to support the Structures and Cultures Moveable Museum; and \$500,000 from Sun Microsystems to sponsor the SonicVision Dome Music Show.

Significant testamentary gifts received included \$2,661,535 from the estate of Anne A. Foley to create the Anastasi Fund in Anthropology and for general endowment; \$1,264,308 from the estate Ezra Kulko for the endowment; \$1,235,666 from the Edwin F. Gamble Charitable Lead Trust for the endowment; and a total of \$2,750,000 from Joseph F. Cullman 3rd for the endowment.

In addition to these magnificent gifts, the Museum is reliant on the support of the City of New York, the State of New York, and a wide variety of federal sources. Most notably, the City of New York has been an extraordinary partner in our efforts to reach the many communities of New York City, and we thank the Mayor of New York Michael Bloomberg, the City Council and Speaker Christine Quinn, Borough President Scott Stringer, the Department of Cultural Affairs and Commissioner Kate Levin, Education Chancellor of Education Joel Klein, and the Commissioner of Parks and Recreation Adrian Benepe for sharing and supporting our mission of science and education and helping to ensure the Museum is an effective, engaging, and safe destination for our millions of visitors.

Finally, as always, the Museum is deeply appreciative of the support, involvement, and advocacy of its more than 50,000 members who, combined, provided over \$6 million in support of the Museum's operations this year.

This support, from such a wide range of friends and benefactors, has perhaps never been more important as we are in the midst of a crisis in science education in the United States and basic science literacy among schoolchildren and the general public is woefully inadequate. American students have fallen behind their peers around the world in science and mathematics achievement. As a result, fewer students are preparing for jobs in science, technology, engineering, and mathematics, and we face a pending workforce crisis in these important fields at the very moment when the world is driven as perhaps never before by science and technology. Science is central to our economies, our health, our security, and our capacity to address the global biodiversity and climate crises. Basic scientific knowledge and ways of thinking are essential components to responsible citizenship in this new century.

Long considered a "trusted guide" to science, nature, and culture, the Museum takes very seriously its responsibility to prepare the next generation of scientists as well as the next generation of citizens. We thank you for being with us on this great journey of discovery during such an important, eventful, and thrilling time in the institution's history. We look forward to the years ahead and invite your continued involvement, support, and advocacy.

Lewis W. Bernard
Chairman

Ellen V. Futter
President



SCIENCE

For more than a century, the American Museum of Natural History has played a leading role in exploration, discovery, and theoretical advances

in the natural sciences, the physical sciences, and anthropology. Today, the Museum finds itself in a new age of discovery, in one of the most robust periods of exploration in its history and a time of significant and mounting alignment between its scientific research and its role in society.

A scientific staff of more than 200 led by 45 curators conducts research in fields that range from areas of long-standing leadership—such as paleontology, biology, and anthropology—to emerging or growing fields—such as microbial biology, genomics, astrophysics, and biodiversity conservation. Under the leadership of Michael J. Novacek, Senior Vice President, Provost, and Curator in the Division of Paleontology, Darrel Frost, Associate Dean of Science for Collections and Curator in the Division of Vertebrate Zoology, and Christopher Raxworthy, Associate Dean of Science for Exhibitions and Education and Associate Curator in the Division of Vertebrate Zoology, this work is carried out in the collections, in Museum laboratories and facilities, and on some 120 field expeditions each year.

An important component of the Museum's research enterprise is a longstanding commitment to training the next generation of scientists through graduate training programs in conjunction with Columbia University, the City University of New York, Cornell University, and New York University. During the 2005–2006 year, the Museum took steps to formalize its training programs. While not covered within the scope of this Annual Report, on October 23, 2006, the Museum received approval from the New York State Department of Education to grant Ph.D.s., becoming the first American museum with such authority, and leading the way for the establishment at the Museum of the Richard Gilder Graduate School. This significant extension of the Museum's mission will be reported on more fully in future Annual Reports.

Meanwhile, the Museum's curators and scientific personnel continued to conduct research and collections-related activities in a wide range of fields. Following is a sampling of the projects that took place during 2005–2006.

DIVISION OF ANTHROPOLOGY

During the 2005–2006 year, curators of the Division of Anthropology pursued a diverse array of research projects in the sub-disciplines of archaeology, ethnology, and physical anthropology.

Curator Robert Carneiro's research focused on three different projects: continuing work on a monograph about manioc, the principal crop of most Amazonian tribes and a staple of many cultivators throughout the tropical world; research on political evolution, especially the trajectory from autonomous villages to the state, focusing specifically on the chiefdom; and work on the correspondence among Lewis H. Morgan, Lorimer Fison, and A. W. Howitt which sheds fresh light on the early history of anthropology, especially on the study of kinship, of which Morgan was the pioneer.

Curator Laurel Kendall oversaw the permanent installation of the exhibition which she co-curated, *Vietnam: Journeys of Body, Mind, and Spirit*, at the Vietnam Museum of Ethnology (VME) in Hanoi, the culmination of an ambitious and groundbreaking international collaboration (the exhibition first opened at the Museum in March 2003). Dr. Kendall continues to work on joint projects with VME researchers, completing research on sacred objects in museum collections and consulting on a new project on the lives of Catholic villagers in Vietnam.

Curator Charles Spencer continued his research on the rise of the early Zapotec state in Oaxaca, Mexico, and on early chiefdom societies in Barinas, Venezuela. In April 2006, Dr. Spencer was elected a Fellow of the American Academy of Arts and Sciences. Curator Ian Tattersall completed and saw published the fourth volume of the series *The Human Fossil Record*, co-authored with Research Associate Jeffrey Schwartz, titled *Craniodental Morphology of Early Hominids: Genera Australopithecus, Paranthropus and Orrorin, and Overview*.

Curator David Hurst Thomas completed a 2,200-page monograph describing three decades of research on St. Catherines Island off the coast of Georgia, where his ongoing research included directing three archaeological excavations this year. All research on St. Catherines Island is funded by the Edward John Noble and St. Catherines Island Foundations. Curator Peter Whiteley focused his research effort on a detailed reanalysis of demographic and ecological data for his monograph on the split of the Third Mesa Hopi town of Orayvi in 1906.



Mongolian Academy of Sciences/AMNH Paleontological Expedition in the Gobi Desert

DIVISION OF INVERTEBRATE ZOOLOGY

Curator Rob DeSalle, Assistant Curator Susan Perkins, and Associate Curator Mark Siddall oversaw the construction of and move into a major new 4,000-square-foot DNA sequencing laboratory facility at the Museum. Dr. Perkins hired two postdoctoral associates and a technician to participate in research funded by the DARPA (Defense Advance Research Projects Administration) program of the Department of Defense and continued her ongoing work on malarial parasites of lizards and other vertebrates.

Curator Ward Wheeler continued his theoretical work on the analysis of DNA sequence data and supervised work by a cadre of DARPA-funded programmers to implement a completely revamped approach to analyses using direct optimization. Preliminary results indicate that computational times will be reduced by one to two orders of magnitude and that the analysis of large data sets will now be possible using a desktop machine.

Curator James M. Carpenter received a three-year National Science Foundation (NSF) award—along with postdoctoral fellow Kurt Pickett and Dr. Wheeler—to study the classification of the widespread genus *Polistes*. Dr. Carpenter conducted a month of field work in the Great Karoo region of South Africa and continued his supervision of an NSF-supported project to re-house, conserve, and photo-document the Museum's large wasp nest collection.

Curator David A. Grimaldi assumed management responsibility for the very large Museum collections of Lepidoptera and also received three years of funding from the National Science Foundation for his work on the insect fauna found in Cretaceous amber from around the world. Curator Norman I. Platnick received a five-year Planetary Biodiversity Inventories award from the National Science Foundation to fund a global study of the spider family Oonopidae. Assistant Curator Lorenzo Prendini continued work on his four-year Revisionary Syntheses in Systematics grant from the NSF for the study of the scorpion family Vejovidae from the American Southwest and Mexico.

Curator and Division Chair Randall T. Schuh devoted most of his scientific efforts to the administration of the five-year NSF-funded Planetary Biodiversity Inventories grant for study of the true bug

family Miridae, including organizing two meetings, completing a large manuscript, and supervising a team of researchers.

Curator Lee Herman continued his work on the classification of the worldwide rove-beetle subfamily Paederinae, which includes some 5,000 species. Curator Jerome Rozen continued his studies of parasitic bees and, in conjunction with project manager John Ascher, made substantial headway in creating a database of specimen information for the Museum's unparalleled bee collection.

DIVISION OF PALEONTOLOGY

The Division of Paleontology continues to be productive in many areas of research, collections, exhibitions, and public learning.

Collections efforts expanded, ranging from physical re-curation to retrospective capture of paper records, in conjunction with a grant from the Mellon Foundation to support the Museum's digital library project, in a project which substantially upgrades the software for managing the electronic collections databases. Noteworthy among these many projects is the ongoing major reorganization and abatement project of the fossil mammal collection complemented by receipt of an NSF collections improvement grant for re-housing the fossil Perissodactyla collection (horses, tapir, rhinos, and brontotheres) and developing an associated web-based education module. Further deepening the impact of the collections, the Museum was one of four founding institutions in the award-winning, NSF-supported Paleontological Portal web project, which makes important paleontology collections catalogs searchable online simultaneously. Curator and Division Chair John Flynn is a member of the project's Steering Committee.

In fieldwork, Division members led numerous scientific expeditions around the world. Graduate students Sterling Nesbitt and Alan Turner revisited longstanding Museum field localities at Ghost Ranch, New Mexico, discovering new fossil-bearing horizons and important new species bearing on the origins of dinosaurs. Curator *Emeritus* Malcolm McKenna made a large collection of Early Tertiary vertebrates from localities in Wyoming. Associate Curator Meng Jin continued his NSF-funded field projects in South China, Anhui, and Inner Mongolia focusing on elucidating the critical Paleocene/Eocene boundary interval in Asia, a time during which there were



Curator Mark Siddall holding *Hirudo medicinalis*, the European medicinal leech.

major global climate changes and complete reorganization of terrestrial ecosystems. Curator Neil Landman continued his work documenting the marine communities of the late Cretaceous and the effects associated with the asteroid impact at the end of the Cretaceous.

Curators Michael Novacek and Mark Norell completed the seventeenth installment of the Mongolian Academy of Sciences/American Museum of Natural History Paleontological Expedition in the Gobi Desert. The 2006 expedition concentrated on Late Cretaceous deposits in the eastern Gobi, not far from the rail route connecting Ulaanbaatar with Beijing, with collection of several important dinosaur specimens as well as skulls, jaws, and partial skeletons of new and important therian mammals, several of which are likely to be species new to science.

Dr. Flynn completed another expedition to the Andes Mountains of Chile, one of several dozen he has led there over the past quarter century. Complementing this long-term program, he also undertook his fifth expedition to the Amazon Basin of northeast Perú, completed a pilot reconnaissance for Mesozoic vertebrates in northwestern India, and joined his first expedition to Mongolia.

Dr. Norell and collaborators continued work on theropod dinosaurs as part of the NSF-funded Assembling the Tree of Life initiative, and published several papers on the relationships of lizards and other squamates. Curator John Maisey continued his innovative work on CT imaging and the anatomy of shark braincases. Curator Niles Eldredge curated the Museum's major exhibition *Darwin* and authored its companion book.

DIVISION OF PHYSICAL SCIENCES

The Division of Physical Sciences, which consists of the Department of Astrophysics and the Department of Earth and Planetary Sciences, continued its groundbreaking research activities.

Curator Michael Shara and collaborators discovered the largest and oldest known shell of ejected matter surrounding a cataclysmic binary star: a white dwarf (or stellar corpse) cannibalizing its sun-like companion, the strongest evidence yet found that all cataclysmic binaries undergo nova explosions, a never-before tested prediction of stellar evolution.

Assistant Curator Ben Oppenheimer and his group won the contract awarded by the Association of Universities for Research in Astronomy to provide the coronagraph to the Gemini Planet Finder project. This instrument will be capable of directly imaging extra solar planets when placed on the 8-meter Gemini South telescope in late 2010.

Dr. Oppenheimer also developed a collaboration between the Museum, Caltech, and NASA's Jet Propulsion Laboratory to

integrate the AMNH integral field spectrograph, being developed as the dissertation project of graduate student Sasha Hinkley of Columbia University, with the Palomar Hale 200" Telescope adaptive optics system. It will be used to search for warm, young, Jovian, extra solar planets, starting in late 2007.

Curator-in-Charge and Associate Curator Mordecai-Mark Mac Low and collaborators demonstrated that the repeated supernova explosions occurring in interstellar gas cause pressure fluctuations of almost an order of magnitude around the mean value, explaining observations showing pressures differing by the seamounts in different locations.

The meteorite research group lead by Associate Curator Denton Ebel studied a combination of 3D X-ray tomographic data of meteorites with 2D surface measurements; theory and measurement bearing on condensation of major and trace elements into the earliest materials formed in the solar system; and analog samples in preparation for the actual sample return of NASA's comet sample from Stardust Mission.

Curator George Harlow lead a team investigating jadeitites and related rocks from Guatemala and the mineralogy of ruby-bearing rocks from the Mogok Gem Tract in northern Myanmar. Research projects on high-pressure mineralogy and new minerals were completed this year and a long-awaited exhibition of California gold specimens loaned to AMNH by the Mineral Trust was put on display in the Harry Frank Guggenheim Hall of Minerals. Curator Edmond Mathez continued his research on layered intrusions, focusing on the Stillwater Complex, Montana, and Bushveld Complex, South Africa.

Together with Senior Research Scientist Charles Mandeville, Curator and Division Chair James Webster continued investigations of eruptive processes of Augustine volcano in Alaska, as well as research on magmatic and volcanic processes at Mt. Somma-Vesuvius, Italy, with colleagues from the University of Naples.

DIVISION OF VERTEBRATE ZOOLOGY

Major research projects of staff and students in the Division of Vertebrate Zoology this year included work on a wide variety of species and employed a variety of approaches, DNA sequencing work, examination of specimens, GIS studies, CT scanning, and field expeditions.

Assistant Curator John Sparks and postdoctoral fellow P. Chakrabarty conducted fieldwork on marine fishes in Taiwan. Accompanied by postdoctoral fellow Robert Schelly and graduate student J. Lowenstein, Axelrod Curator Melanie Stiassny conducted fieldwork on the freshwater fauna of the Congo River of the Republic of Congo and Salonga River of the Democratic Republic of Congo. Curator

Scott Schaefer collected freshwater fishes in the Andes of Ecuador in September and October 2005. This work was part of an NSF-supported revision of the astroblepid catfishes and resulted in nearly 600 specimens from high-elevation headwaters of both Pacific and Amazonian drainages.

Research in the Department of Ornithology continues to focus on resolving the avian Tree of Life, an activity supported by the National Science Foundation. The research groups of Curator Joel Cracraft and Associate Curator George Barrowclough completed studies of multiple groups of birds, including New World flycatchers and their allies, woodpeckers, and parrots, among others.

In the Department of Mammalogy, Curator Ross MacPhee continued his work on extinct mammals including those of the West Indies and the Arctic. Novel findings this year included the discovery of terrestrial adaptations in an extinct Cuban monkey, the first time this lifestyle has been inferred for a New World primate. Other projects included work on DNA sequences of recently extinct musk-ox, mammoths, and mastodons.

Curator and Division Chair Nancy Simmons traveled to Hawaii in the spring to work on a new fossil bat, the second endemic mammal species for the islands. She also continued her collaborative work with Postdoctoral Fellow Norberto Giannini on morphology and evolutionary relationships of Old World fruit bats, and published a large work outlining the species diversity of bats. Curator Robert Voss continued his work on morphology and relationships of marsupials, and Collections Manager Darrin Lunde and Curator *Emeritus* Guy Musser described two new genera of rodents from Southeast Asia based on specimens collected on previous field trips to Vietnam.

Activities in the Department of Herpetology included studies of the diversity of reptiles and amphibians of Madagascar by Associate Curator Christopher Raxworthy and work on Southeast Asian species by Biodiversity Specialist Raoul Bain. This year also saw publication of a groundbreaking monograph on the evolutionary relationships of amphibians by Curator and Associate Dean Darrel Frost, Dr. Raxworthy, Dr. Wheeler of the Division of Invertebrate Zoology, and other colleagues including two recent graduates of the AMNH joint Ph.D. program with Columbia University, Drs. Taran Grant and Julian Faivovich.

This year saw many milestones in collections care. An NSF-funded effort to re-tag more than 60,000 specimens in the Department of Herpetology was completed, along with electronic capture of new data from these specimens. Data capture of bird records also continued, with over 500,000 records now databased. The Division continued work on a major initiative to develop a centralized web-based database for its collections.



The Spectrum of Life in the Hall of Biodiversity

CENTER FOR BIODIVERSITY AND CONSERVATION

The Center for Biodiversity and Conservation continued its work in research, education, public outreach, and training.

In August 2005 several CBC researchers, including Director Eleanor Sterling, Dan Brumbaugh, Kate Holmes, and Chris Filardi, made their first field expedition to Palmyra Atoll in the central Pacific Ocean. The CBC is a core member of the newly formed Palmyra Atoll Project Consortium, which also includes The Nature Conservancy, Stanford University, Scripps Institution of Oceanography, and others. The team found ample opportunities for extraordinary research, with thriving populations of sea turtles, birds, manta rays, and sharks, as well as habitats altered by the military presence in the 1940s.

To build the capacity for more balanced land-use practices in the Solomon Islands, Biodiversity Scientist for Pacific Programs Chris Filardi initiated a community-based education and conservation initiative combined with a program of long-term biodiversity research in the Solomons, continuing research begun in the area nearly a century ago through the Museum's Whitney South Seas Expedition.

The CBC-led Bahamas Biocomplexity Project studied fish populations at a Bahamian marine reserve and shed new light on how protecting the reef fish relates to the health of the coral community. In March 2005, the National Science Foundation awarded the Scarabaeinae Research Network (ScarabNet) five years of support. Begun in 2002 by Invertebrate Program Manager Sacha Spector, ScarabNet is a worldwide network of ecologists and taxonomists collaborating to assemble the taxonomic and practical tools needed to include invertebrate groups like the dung beetles in conservation planning and priority-setting.

Nestled in the foothills of the “sky island” mountain wilderness at the southern extreme of the Rocky Mountains, the CBC’s Southwestern Research Station (SWRS) is situated in the midst of the extraordinary biodiversity of the Chiricahua Mountains. During the summer of 2005, scientists came from across the country and around the world to do fieldwork at the SWRS on such areas as ants, spadefoot toads, lizards, and birds. SWRS Director Dawn Wilson has begun a new research project on nesting strategies of the desert box turtle, *Terrapene ornata luteola*, in the San Simon Valley.

The CBC’s eleventh annual symposium, *Conserving Birds in Human-Dominated Landscapes: Weaving a Common Future*, was held on April 27 and 28, 2006.

SACKLER INSTITUTE FOR COMPARATIVE GENOMICS

In the emerging field of genomic science, the Museum has a unique role—that of exploring genomics as a comparative, rather than single-species, discipline. For more than a decade,

the Museum has fostered pacesetting research on the genetic makeup of a great diversity of species. Such research allows scientists to map the evolutionary relationships among organisms and to use that knowledge for applications that include understanding infectious disease.

The Museum’s Sackler Institute for Comparative Genomics was established in 2001 to effectively organize and build upon these remarkable gains in genomics research. The Museum and the Institute’s approach considers the 3.8-billion-year history of life as a grand biological experiment, one whose observation requires the integration of molecular, anatomical, and paleontological data. That effort has now become the focus for more than 70 research staff using facilities that include modern molecular laboratories, substantial bioinformatics capacity, and the frozen-tissue Ambrose Monell Collection for Molecular and Microbial Research. These, together with research partnerships with other prominent scientific institutions, position the Museum to enhance its important contributions to genomics research, particularly in microbial science.

IN MEMORIAM: CRAIG MORRIS 1939–2006

This year the entire Museum community mourned the untimely death on June 14, 2006, of Craig Morris, Senior Vice President, Curator in the Division of Anthropology, and former Dean of Science. One of the world’s most important Andean scholars, Dr. Morris was an expert



on pre-Columbian archaeology and Inka civilization. A towering figure, he made significant contributions to the field of anthropology, the enterprise of science, and to the American Museum of Natural History, which was his professional home for 31 years.

Dr. Morris’s excavations and interpretations immeasurably transformed world understanding of Inka urban life before the Spanish conquest in the early 16th century. One of his most extensive projects—encompassing excavation of more than

300 separate sites and 4,000 buildings—explored the ruins of Huánuco Pampa in the Peruvian Andes, one of the Inkas’ largest cities. For his contributions in anthropology and archaeology, in 1998 Dr. Morris was elected a fellow of the National Academy of Sciences and of the American Academy of Arts and Sciences, among the highest honors bestowed on scientists in the United States.

Dr. Morris provided exceptional scientific and administrative leadership to the Museum at a key time in the institution’s history. As Dean of Science, Dr. Morris provided leadership to the Museum’s curatorial staff and helped guide a major expansion and elevation of the Museum’s exhibition program. He personally served as the curator of a number of major exhibitions including *Petra: Lost City of Stone*, *Leonardo’s Codex Leicester: A Masterpiece of Science*, and *The Royal Tombs of Sipán*.

In addition to his monumental professional achievements, his brilliance as a scholar, and his service as a true pillar of the Museum community, Dr. Morris will be remembered by those who knew him as an exceptionally wise colleague, a model of professionalism, integrity, and intellectual rigor, a dear and true friend, and always a gentleman. He brought to everything he did incisiveness and intellectual discipline, exquisite judgment, a spirit of diplomacy in the face of challenge, impeccable taste, and an exceptional graciousness of spirit. He is sorely missed.



EDUCATION

The Museum's educational programs serve learners of all ages, backgrounds, and levels of preparedness—both onsite and online. Faced with a current national crisis in science

education and a pending workforce crisis in the fields of science, engineering, and technology, the Museum has a leadership role to play in helping to prepare the next generation of scientifically literate citizens and the next generation of scientists. It accomplishes its goals through a variety of programs both in the formal education system and by reaching out to families and the general public.



During this year, the Museum's education efforts continued to focus on improving the public understanding of science, nature, and culture, building innovative new partnerships and programs to expand the Museum's educational reach and impact.

WORKING WITH SCHOOLS AND TEACHERS

The Museum has a long and productive history of collaboration with the New York City School system and is the most-visited field trip destination for New York City public schoolchildren, who visit free of charge. Each year, the Museum welcomes approximately 400,000 children in organized class or camp groups from throughout New York City, the region, and beyond.

One extraordinary example of a formal partnership with the schools is the Urban Advantage program, which completed its first full year in 2006. An unprecedented consortium of New York City's science-rich cultural institutions, conceived of and led by the Museum in partnership with the New York City Department of Education, Urban Advantage is based on the notion that New York City schoolchildren actually have an advantage due to a wealth of local science resources. With support from the New York City Council, Urban Advantage brings together the Museum, the New York Botanical Garden, the Wildlife Conservation Society/Bronx Zoo, the New York Hall of Science, the Brooklyn Botanic Garden, the Queens Botanical Garden, the New York Aquarium, and the Staten Island Zoo. By integrating the participating institutions' content and resources into the formal education system, it seeks to improve achievement in science at the middle school level.

In the 2005–2006 academic year, Urban Advantage reached 195 teachers and over 18,000 7th and 8th graders in 111 schools, and continues to grow. Its mix of programs focused on supporting student investigations, fostering professional development of teachers, and providing access to these institutions for students, families, and educators has proved successful in improving student outcomes. Based on the program's success, the Museum continues to expand the numbers served and plans to develop this as a model program for application in other urban centers nationwide.

In addition to the Urban Advantage activities, the Museum is a leader in professional development of primary and secondary school teachers, reaching more than 6,000 K–12 teachers each year, both onsite and online. Offerings include an award-winning program of online courses known as Seminars on Science and a range of onsite courses and workshops that offer both substantive knowledge and pedagogical skills-building to help teachers guide students in inquiry-based science learning. Selected professional development courses offer credits, in partnership with the City University of New York (CUNY), while a National Science Foundation-funded collaboration, headed by the Museum in partnership with CUNY, trains Earth science teachers.

PARTNERSHIP FOR SCALE

In 1997, the Museum committed itself to improving science literacy on a national scale by establishing the National Center for Science Literacy, Education, and Technology. The National Center creates products and strategies—Web sites, curriculum products, professional development courses for teachers, and printed materials—that take the Museum's scientific knowledge, collections, and science education resources into schools, homes, and communities nationwide.

This year, among its many activities, the National Center increased the Museum's educational reach and impact through two notable collaborations with major educational publishers Scholastic and Macmillan McGraw-Hill.

Scholastic is the largest and most influential educational publisher in the United States, reaching approximately 91% of American schoolchildren. This partnership leverages the Museum's rich scientific content and Scholastic's extraordinary reach to create a suite of innovative print and online resources including science magazines and websites. The Museum provides content for Scholastic's two nationally distributed classroom magazines—"SuperScience" which reaches grades 3–6 and "Science World" which reaches grades 6–10—and for eScholastic, its website.

This year, the co-developed features, "Science Explorations," presented ten articles which highlighted cutting-edge science and introduced students to the real people and real experiences of science today. Articles focused on paleontology, astrophysics, bats, lizards and snakes, true bugs, and the giant squid. One notable article, "Voyage of Discovery," which introduced Museum Curator Niles Eldredge as an expert on Charles Darwin's explorations of the Galapagos Islands, extended the impact of the exhibition *Darwin*. "Voyage of Discovery" received the 2006 Distinguished Achievement Award from the Association of Educational Publishers.

These articles also appeared on eScholastic in six content-rich highly interactive websites, along with online treasure hunts for children and teachers and other fun and informative activities.

Another important partnership was forged with Macmillan McGraw-Hill, one of the country's top textbook publishers. Segments written by the Museum and identified using the Museum's name and logo were developed for inclusion in Macmillan McGraw-Hill's *2008 Elementary Science Textbook for California*, both the pupil and teacher editions. The Museum's contributions included articles on the "History of Science" and "Science, Technology, and Society," as well as 18 "Meet the Scientist" segments, which profile the Museum's working scientists. These segments also refer readers to the

Museum's website for additional exploration. Over the life of the series, the Museum's content is expected to reach five million students.

This content also will be included in Macmillan McGraw-Hill's national editions of its elementary school science textbooks, planned for use in classrooms beginning in the 2008 academic year. Also included in the planned national editions will be eight additional "Meet the Scientist" profiles and four "Be a Scientist" articles that convey the process of the scientific method by describing the research of Museum scientists, such as Christopher Raxworthy and Paule Razafimahatratra (Animals, Grade 3); James Webster and Francesca Sintoni (Volcanoes, Grade 4); Susan Perkins and Liliana Dávalos (Disease, Grade 5); and Orsola De Marco and Mordecai-Mark Mac Low (Stars, Grade 6).

TOPICAL EXHIBITIONS THAT EDUCATE

One of the most powerful ways the Museum educates the public is through exhibitions. In one important example, last year, amid a flurry of national confusion and controversy surrounding the teaching of evolution, the Museum presented a major exhibition on Charles Darwin. Recognizing the exhibition as a significant opportunity, the Museum developed a suite of educational offerings in conjunction with the show, for teachers, students, and the general public.



Identification Day

With a grant from the Carnegie Corporation, the Museum developed comprehensive teacher's guides to support educators at the elementary, middle school, and high school levels in incorporating the exhibition into their curriculum plans. The guides articulated the key scientific concepts of the exhibition; guided teachers in using specific areas of the exhibition to teach these concepts; described the nature of scientific theories in general and the theory of natural selection specifically; suggested grade-targeted activities for before, during, and after the class's visit to the exhibition; and provided links to many excellent resources for teaching evolution. All activities and information correlated with national and local science education standards.

Prior to the exhibition opening, the Museum convened a Darwin Educators Group, a committee of educators and administrators from New York City Schools, the Department of Education, teacher preparation programs, and higher education institutions to introduce them to the exhibition, get feedback and advice,

and promote the use of the exhibition among educators at all levels in New York. The Museum also hosted an open house for New York City educators to visit *Darwin* after it had opened and to obtain information about the exhibition and its educational materials.

Recognizing that the exhibition touched on issues considered by some to be controversial, the Education Department staffed the

Museum is through the Moveable Museum program, a fleet of recreational vehicles customized as mobile exhibition spaces.

This year the Education department, working in collaboration with the Exhibition department, developed and launched a new Moveable Museum with the support of Bloomberg LLP. Capitalizing on the content resources of the very popular exhibition of the same name, the Moveable *Dinosaurs: Ancient*



AMNH Science Bulletins on display at the National Science Center's Fort Discovery in Augusta, Georgia

exhibition throughout the run with specially trained "Explainers" to assist visitors and answer questions. In addition, a series of public programs were presented to support the exhibition and extend its educational impact. These included "Cracking the Ocean Code," a film screening and discussion with Craig Venter; "Science and Faith"; "Observing Worms for Families" a four-session family workshop; and the sold-out "Darwin Camp: Meet the Beetles."

REACHING INTO COMMUNITIES THROUGHOUT NEW YORK

One way that the Museum extends its reach to schools and communities that might not have the opportunity to visit the

Fossils, New Discoveries, brings the most current science of paleontology to schools and communities throughout New York City.

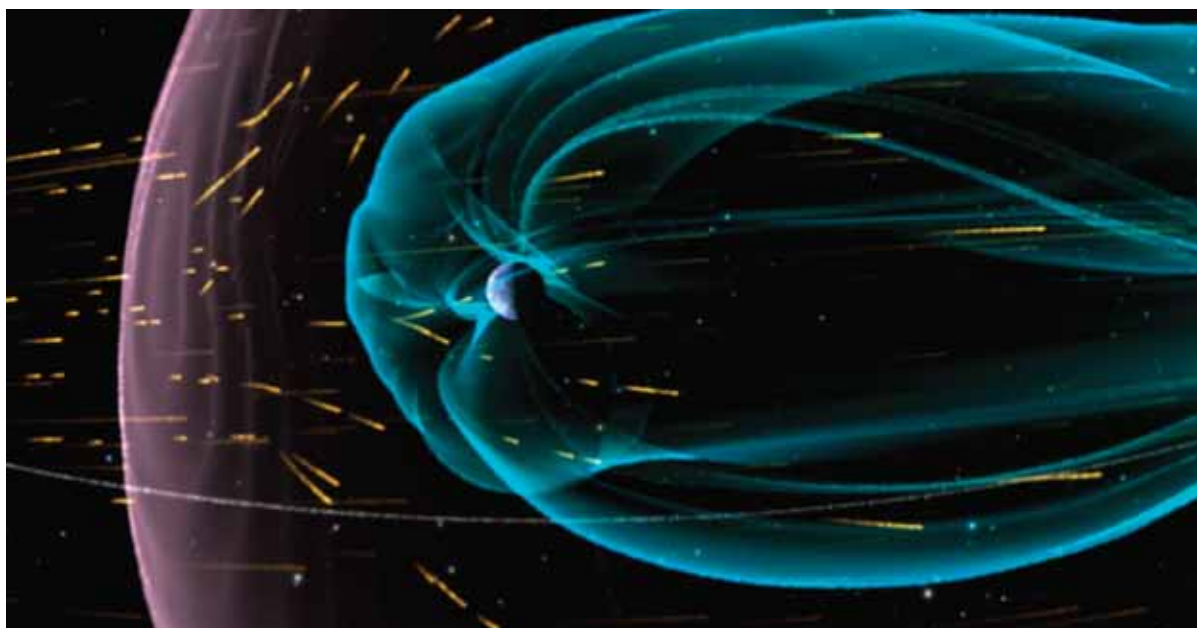
These are just a few examples of the many educational strategies and programs the American Museum of Natural History employed during the year to address the crisis in science education locally, nationally, and even internationally. The Museum, long a pioneer in science and education, recognizes the opportunity and the responsibility to take a lead role in improving the public understanding of science, creating a new benchmark of educational leadership for cultural institutions in the 21st century.



EXHIBITIONS AND SPACE SHOWS

From Darwin's theory of evolution by natural selection to the asteroid impact that ended the Age of the Dinosaurs. From the jewelry arts traditions of Native American peoples to live butterflies. This year, the Museum's program of exhibitions and space shows showcased the

range of the institution's scientific work. With a sustained focus on combining cutting-edge technology and interpretive techniques with the power of real specimens and artifacts, the Museum develops award-winning exhibitions and space shows that are especially effective agents for public education and discovery. In addition, these offerings are no longer only presented in the Museum's New York City home, but now travel to collaborating and hosting institutions worldwide, extending the reach, life, and impact of the Museum's exhibitions and space shows.



Ionized particles from the solar wind are deflected off the Earth's magnetic field, as shown in *Cosmic Collisions*.

COSMIC COLLISIONS

Premiered March 18, 2006

Hayden Planetarium, Rose Center for Earth and Space

Curator: Michael Shara, Curator of Astrophysics,
Division of Physical Sciences

A spectacular immersive theater experience, *Cosmic Collisions* launches visitors on a thrilling trip through space and time to explore cosmic collisions, hypersonic impacts that formed and continue to shape the dynamic and evolving universe. Groundbreaking scientific simulations and visualizations based on cutting-edge research developed by Museum astrophysicists, scientists at the National Aeronautics and Space Administration (NASA), and other international colleagues depict the dramatic and explosive collisions that shaped our solar system, changed the course of life on Earth, and continue to transform our galaxy. *Cosmic Collisions* is narrated by Robert Redford.

Cosmic Collisions depicts the formation of our Moon some five billion years ago when a wandering planetoid struck Earth; the violent meeting of two stars at the edge of the galaxy; and the anticipated future collision of our Milky Way galaxy with our closest neighbor, the Andromeda spiral galaxy, a cosmic crash that will produce a new giant elliptical galaxy billions of years from now. Also highlighted is the violent surface of our Sun, imaged by NASA satellites, where a multitude of continual collisions eject material towards our planet's magnetic field, producing the eerie glow of the aurora borealis and the aurora

australis. Also included is a thrilling re-creation of the meteorite impact that hastened the end of the Age of Dinosaurs 65 million years ago and cleared the way for mammals like us to thrive. Another dramatic sequence highlights a future scenario where humans use ingenuity and technology to divert the path of an oncoming "doomsday" asteroid on a collision course with Earth.

Through the Hayden Planetarium's infrared listening system, *Cosmic Collisions*, which continues to screen in the Rose Center, can be heard in Chinese, French, Spanish, Italian, and German.

Cosmic Collisions was developed by the American Museum of Natural History in collaboration with the Denver Museum of Nature & Science; GOTO, Inc., Tokyo, Japan; the Shanghai Science and Technology Museum. It was made possible through the generous support of CIT. *Cosmic Collisions* was created by the American Museum of Natural History with the major support and partnership of NASA, Science Mission Directorate, Heliophysics Division. Graphics processing technology provided by NVIDIA.

// Change is a constant in the universe. Stars, planets, even galaxies are always on the move, tugged this way and that by the powerful, ever-present force of gravity. At times, they even collide. //

—from *Cosmic Collisions*



DARWIN

November 19, 2005–August 20, 2006, Gallery 3
Curator: Niles Eldredge, Curator, Division of Paleontology

Darwin was the most in-depth exhibition ever mounted on this brilliant naturalist and his theory of evolution by natural selection. This comprehensive exhibition, which featured the broadest and most complete collection ever assembled of specimens, artifacts, original manuscripts, and memorabilia related to Darwin, continued a series of landmark exhibitions the Museum has developed on great thinkers, explorers, and scientists including Leonardo da Vinci, Ernest Shackleton, and Albert Einstein.



Darwin's magnifying glass

Darwin offered visitors an engaging and enlightening exploration of the extraordinary life and mind of Charles Darwin (1809–1882), whose curiosity, observations, and discoveries nearly 150 years ago forever changed the perception of the origin and nature of our own species, as well as the myriad other species on this planet, and launched modern biological science. Visitors experienced the wonders Darwin witnessed on his journey as a curious and adventurous young man aboard the HMS Beagle on its historic five-year voyage (1831–1836) to South America, the Galápagos Islands, and beyond.

Darwin was organized by the American Museum of Natural History in collaboration with the Museum of Science, Boston; The Field Museum, Chicago; the Royal



Ontario Museum, Toronto, Canada; and the Natural History Museum, London, England. The exhibition was mounted in cooperation with English Heritage, the organization that administers Down House, Darwin's longtime home; the Natural History Museum, London; Cambridge University, one of the primary repositories of Darwin's writings; and some of Darwin's living descendants.

The American Museum of Natural History gratefully acknowledges The Howard Phipps Foundation for its leadership support of this exhibition. Significant support for *Darwin* was also provided by Chris and Sharon Davis, Bill and Leslie Miller, the Austin Hearst Foundation, Jack and Susan Rudin, and Rosalind P. Walter. Additional funding was provided by the Carnegie Corporation of New York and Dr. Linda K. Jacobs.



Visitors view a re-creation of Darwin's study.

“ There is grandeur in this view of life, with its several powers, having been originally breathed into a few forms or into one; and that, whilst this planet has gone cycling on according to the fixed law of gravity, from so simple a beginning endless forms most beautiful and most wonderful have been, and are being, evolved. ”

—Charles Darwin

DINOSAURS: ANCIENT FOSSILS, NEW DISCOVERIES

May 14, 2005–January 6, 2006, Gallery 4

Curator: Mark Norell, Curator in the Division of Paleontology

This groundbreaking exhibition revealed how thinking about dinosaur biology has changed dramatically over the past two decades and highlighted ongoing cutting-edge research by Museum scientists and other leading paleontologists around the world. Using a combination of recent major fossil finds, captivating computer simulations, and provocative life-size models, *Dinosaurs: Ancient Fossils, New Discoveries* broke through the public's preconceived notions of these ancient animals and introduced a dynamic new vision of dinosaurs and the scientists who study them.

Examining in greater detail than ever before the scientific sleuthing and the array of investigative tools—from bioengineering computer software to CT scans—*Dinosaurs* presented the most up-to-date look at how scientists are reinterpreting many of the most persistent and puzzling mysteries of dinosaurs: what they looked like, how they behaved, and how they moved, as well as the complex and hotly debated theories of why—or even whether—they became extinct.

Dinosaurs: Ancient Fossils, New Discoveries was organized by the American Museum of Natural History, in collaboration with the Houston Museum of Natural Science; the California Academy of Sciences, San Francisco; The Field Museum, Chicago; and the North Carolina Museum of Natural Sciences, Raleigh. *Dinosaurs: Ancient Fossils, New Discoveries* and its accompanying education and public programs were made possible by Bank of America and major funding was also provided by the Lila Wallace-Reader's Digest Endowment Fund.



The Liaoning diorama depicts life in what is now northeastern China 130 million years ago.





TOTEMS TO TURQUOISE: NATIVE NORTH AMERICAN JEWELRY ARTS OF THE NORTHWEST AND SOUTHWEST

October 30, 2004–July 10, 2005
Gallery 3

Co-Curators: Peter Whiteley, Curator, Division of Anthropology, and Lois Sherr Dubin, author. Advising Artists: Jim Hart, Hereditary Chief of the Haida Nation, carver and jeweler, and Jesse Monongya, Navajo jeweler

This landmark exhibition celebrated the beauty, power, and symbolism of modern Native American jewelry arts. With more than 500 objects, including contemporary and historic jewelry and artifacts, *Totems to Turquoise* illustrated how techniques, materials, and styles have evolved as Native American jewelers have adapted to technical, societal, and commercial changes, which have transformed traditional craft into a full-

fledged mode of artistic expression.

The exhibition focused on the cultural similarities and differences between the Northwest and Southwest regions, the role of tribal and individual identity in design, and how artists incorporate images from their physical landscape into their work.



Totems to Turquoise featured superb jewelry by modern Native American artists and historic pieces on loan from private collectors, institutions, and museums. An array of historic weavings and carvings from the Museum's own extensive Native American collection was also on view. Highlighted were the jewelry, master artists, and traditions of the Navajo, Zuni, Hopi, and Santo Domingo of the Southwest; and the Haida, Tlingit, and Kwakwaka'wakw of the Northwest Coast. Work was displayed from master artists

Charles Loloma, Preston Monongye, Jesse Monongya, and Kenneth Begay from the Southwest; and Charles Edenshaw, Bill Reid, Robert Davidson, and Jim Hart from the Northwest Coast, among others.



THE BUTTERFLY CONSERVATORY: TROPICAL BUTTERFLIES ALIVE IN WINTER

October 8, 2005–June 23, 2006
The Butterfly Vivarium

Featured for its eighth year, The Butterfly Conservatory showcased more than 500 live tropical butterflies, representing some 30 species, in an enclosed rain forest habitat where people and insects could interact. This year, the Museum added more diverse species of butterflies and moths from Asia and Africa, and continued the display of orchids.

The exhibition was made possible with support from Chase Manhattan Bank.



Haida Hereditary Chief Jim Hart carves a totem at the Museum.





Voices from South of the Clouds Opening Reception (above and right)

OTHER EXHIBITIONS

As in years past, the continuing generous support of the Arthur Ross Foundation enabled the Museum to offer a rich and diverse program of photography exhibitions in the Akeley Gallery.

EXPLORING BOLIVIA'S BIODIVERSITY

January 29–August 7, 2005
Akeley Gallery

Over 30 spectacular color photographs transported visitors through Bolivia's varied landscapes, from the jagged and majestic Andes to the dense lowland tropical forests of the Amazon and the dry forests of the Chaco. The exhibition, which featured informative captions in English and Spanish, also brought to light the collaboration between the Museum's Center for Biodiversity and Conservation and Bolivian scientists and resource managers to survey critical habitats in protected areas and support community-based conservation projects, including the creation of community museums that interpret biological and cultural heritage for visitors. *Exploring Bolivia's Biodiversity* was adapted for permanent display at the Museum's partner institution: in Bolivia, the National Museum of Natural History in La Paz and the Noel Kempff Mercado Natural History Museum in Santa Cruz.

VOICES FROM SOUTH OF THE CLOUDS

September 17, 2005–March 12, 2006
Akeley Gallery

Villagers in China's Yunnan Province were given simple point-and-shoot cameras and one roll of film per month with which to chronicle their daily lives and surroundings. The resulting images reveal the striking natural diversity of the area and the joy, hardships, and rhythms of village life. The exhibition was the result of an innovative project called Photovoice, which is part of the Yunnan Great Rivers Project, a collaborative effort between the Chinese government and The Nature Conservancy, an international organization dedicated to preserving the diversity of life on Earth. *Voices from South of the Clouds* received additional support from Eastman Kodak.

SUNSCAPES: OUR MAGNETIC STAR

April 9–September 5, 2005
IMAX Corridor Gallery

Eruptions on the Sun caused by its erratic magnetic field interrupt communications, wreak havoc with navigation systems, generate radiation that is harmful to astronauts and airline passengers, and occasionally push power grids to failure. Special optical systems and detectors, such as the NASA Transition Region and Coronal Explorer (TRACE), the Extreme Ultraviolet Imaging Telescope (EIT), the Large Angle and Spectrometric Coronagraph (LASCO), and the Michelson Doppler Imager (MDI) telescopes on the ESA/NASA Solar and Heliospheric Observatory (SOHO), captured these 25 color images of the violent atmosphere of the Sun. This exhibition was developed by the Transition Region and Coronal Explorer (TRACE) team. TRACE is a NASA small explorer mission developed at Lockheed Martin Solar and Astrophysics Laboratory in Palo Alto, California.

*The Genomic Revolution**Einstein*

CONTENT DISSEMINATION

Through a significant recent expansion of the American Museum of Natural History's content dissemination program, Museum exhibitions, space shows, and Science Bulletins are now presented by museums and science centers around the world, bringing the Museum's content to millions in their home communities across the globe. The following institutions and venues presented Museum exhibitions, space shows, and Science Bulletins in the period of July 1, 2005, to June 30, 2006.

EXHIBITIONS

Dinosaurs: Ancient Fossils, New Discoveries

Houston Museum of Natural Science
March 10–July 30, 2006

The Endurance: Shackleton's Legendary Antarctic Expedition

National Museum of Ireland, Dublin
July 15–October 30, 2005

Einstein

Bloomfield Science Museum, Jerusalem
opened September 30, 2005, ongoing display

Einstein II (reduced traveling version)

McWane Science Center, Birmingham, Alabama
September 3, 2005–January 22, 2006
Museum of Nature and Science, Dallas
March 3–July 16, 2006

The Genomic Revolution

Museum of New Zealand Te Papa Tongarewa
September 3, 2005–January 22, 2006
Hong Kong Science Museum
June 2–October 22, 2006

Pearls

National Science Museum, Tokyo
October, 8, 2005–January 22, 2006
Australia Museum, Sydney
April 8–August 6, 2006

Petra: Lost City of Stone

Calvin College, Grand Rapids, Michigan
April 4–August 28, 2005
Glenbow Museum, Calgary, Canada
October 29, 2005–February 20, 2006
Canadian Museum of Civilization, Quebec, Canada
April 6–September 4, 2006

Totems to Turquoise: Native North American Jewelry Arts of the Northwest and Southwest

Fernbank Museum of Natural History, Atlanta
September 1, 2005–January 2, 2006
Gene Autry Museum of the American West, Los Angeles
March 31–August 20, 2006

Vietnam: Journeys of Body, Mind, and Spirit

Glenbow Museum, Calgary, Canada
July 1, 2005–September 25, 2005
Vietnam Museum of Ethnology, Hanoi opened
December 7, 2005, ongoing display

SPACE SHOWS

Passport to the Universe

Futuroscope, Paris
Houston Museum of Natural Science
Denver Museum of Nature and Science
Papalote Museo del Niño, Mexico City
South Florida Museum, Bradenton
Oregon Museum of Science and Industry, Portland
Louisiana Art and Science Museum, Baton Rouge
Hamburg Planetarium, Hamburg, Germany
Sir Thomas Brisbane Planetarium, Brisbane, Australia

The Search for Life: Are We Alone?

Beijing Planetarium
Queen Mary 2
Denver Museum of Nature and Science
Papalote Museo del Niño, Mexico City
LodeStar Astronomy Center, Albuquerque
Scitech Discovery Centre, Perth, Australia
Louisiana Art and Science Museum, Baton Rouge
Sir Thomas Brisbane Planetarium, Brisbane, Australia
South Florida Museum, Bradenton
Melbourne Planetarium, Melbourne, Australia
Chabot Space and Science Center, Oakland, California
Asahikawa Planetarium, Asahikawa, Japan
Oregon Museum of Science and Industry, Portland
Cit  de l'espace, Toulouse, France
Sunshine Planetarium, Tokyo
Fels Planetarium, the Franklin Institute, Philadelphia

Cosmic Collisions

Denver Museum of Nature and Science
Shanghai Science and Technology Center
GOTO Inc., Tokyo
Eugenides Planetarium, Athens, Greece
Papalote Museo del Niño, Mexico City, Mexico



Dinosaurs: Ancient Fossils, New Discoveries

SonicVision

Adler Planetarium, Chicago
 Fels Planetarium, the Franklin Institute, Philadelphia
 Papalote Museo del Niño, Mexico City
 Denver Museum of Nature and Science
 South Florida Museum, Bradenton
 Chabot Space and Science Center, Oakland
 Louisiana Art and Science Museum, Baton Rouge, LA

SCIENCE BULLETINS

Flandrau Science Center, Tucson, Arizona
 Florida Museum of Natural History, Gainesville, Florida
 Frank McClung Museum, Knoxville, Tennessee
 Franklin Institute, Philadelphia, Pennsylvania
 Georgia Museum of Natural History, Athens, Georgia
 Great Lakes Science Center, Cleveland, Ohio
 Humboldt State University National History Museum, Arcata, California
 Illinois State Museum, Springfield, Illinois
 I. P. Stanback Museum and Planetarium, Orangeburg, South Carolina
 Irene W. Pennington Planetarium, Baton Rouge, Louisiana
 Las Vegas Museum of Natural History, Las Vegas, Nevada
 McWane Science Center, North Birmingham, Alabama
 Mississippi Museum of Natural Science, Jackson, Mississippi
 Museum of Nature and Science, Dallas, Texas
 NASA Goddard Space Flight Center, Greenbelt, Maryland
 NASA Jet Propulsion Lab, Pasadena, California
 NASA John C. Stennis Space Center, Stennis Space Center, Mississippi
 NASA Space Center Houston, Houston, Texas
 NASA U.S. Space and Rocket Center, Huntsville, Alabama
 NASA Wallops Visitor Center, Wallops Island, Virginia
 National Center for Atmospheric Research, Boulder, Colorado
 National Center for Supercomputing Applications, Urbana, Illinois
 Nauticus: The National Maritime Center, Norfolk, Virginia
 North Carolina State Museum, Raleigh, North Carolina
 Rochester Museum and Science Center, Rochester, New York
 Science Museum of Minnesota, St. Paul, Minnesota
 Science Station, Cedar Rapids, Iowa
 Science World, Vancouver, Canada
 South Florida Museum, Bradenton, Florida
 The National Science Center's Fort Discovery, Augusta, Georgia
 The Wildlife Experience, Parker, Colorado
 U.S. Air and Space Center, NASA Langley Research Center, Hampton, Virginia
 Virginia Museum of Natural History, Martinsville, Virginia

EXHIBITION AWARDS AND HONORS

DARWIN

365 Year in Design 27:
 American Institute of Graphic Arts, 2006

Award of Merit, Society for Environmental
 Graphic Design, 2006

Award of Merit for Innovative Use of Archives,
 Archivists Round Table of Metropolitan New York, 2006

DINOSAURS: ANCIENT FOSSILS, NEW DISCOVERIES

Golden Eagle Award, professional non-telecast category,
 CINE, 2005, for "Walking with T. rex"

Golden Eagle Award, professional non-telecast category,
 CINE, 2005, for "In the Footsteps of Dinosaurs"

TOTEMS TO TURQUOISE: NATIVE NORTH AMERICAN JEWELRY ARTS OF THE NORTHWEST AND SOUTHWEST

Omni Intermedia Awards; Silver Award, Interactive 2005,
 for "Visual Language: Northwest Coast"

Omni Intermedia Awards; Bronze Award, Interactive 2005,
 for "Visual Language: Southwest"



SPECIAL EVENTS

The year 2005–2006 was marked by a wide variety of special and gala events including record-breaking

benefits, opening receptions for exciting new exhibitions, and events in the Rose Center for Earth and Space, including a celebration of the new Space Show and the first terrestrial appearance by the returning crew of the Space Shuttle *Discovery*.



Commander Eileen Collins and Mission Specialists Stephen Robinson and Charles Camarda

SPACE SHUTTLE DISCOVERY CREW VISITS THE ROSE CENTER AUGUST 30, 2005

In their first public appearance since returning home from their mission, the crew of the Space Shuttle *Discovery* visited the Rose Center, thanks to the collaboration of NASA. Commander Eileen Collins and Mission Specialists Stephen Robinson and Charles Camarda received a hero's welcome from a capacity crowd in the Cullman Hall of the Universe, discussed their experiences in space, and answered questions from enthusiastic schoolchildren.



Arthur Ross and Ellen Futter

TRIBUTE TO ARTHUR ROSS SEPTEMBER 8, 2005

Over 100 Museum friends gathered on the beautiful Arthur Ross Terrace for cocktails and hors d'oeuvres to pay tribute to Trustee Arthur Ross and his wife Janet. Their longstanding commitment to the Museum has included generous gifts in support of the Arthur Ross Terrace, the Arthur Ross Hall of Meteorites, and the changing exhibition program in the Akeley Gallery.



Miranda and Sam Hearst and friends

TWELFTH ANNUAL FAMILY PARTY OCTOBER 18, 2005

Over 1,200 children and parents explored the Museum, interacted with live animals, searched for dinosaurs in the Gobi Dig, and danced to the lively tunes of the Z Brothers in the Milstein Hall of Ocean Life. With the partnership of Scholastic, the event also featured the Bookfactory, where young guests created their own books to take home. The event, which raised over \$310,000, was chaired by Tory Burch, Kathryn Collins, Whitney Fairchild, Meera Gandhi, Kathryn Hearst, Liz Lange, Alexandra Lebenthal, Simone Mailman, Nicole Miller, Catherine Sidamon-Eristoff, Kelly Behun Sugarman, and Aerin Zinterhofer.



Curator Niles Eldridge leads a tour of *Darwin*

DARWIN OPENING RECEPTION NOVEMBER 15, 2005

Hundreds of guests, including Trustees, major donors, and friends, celebrated the opening of the major exhibition *Darwin*. In addition to previewing the exhibition, guests took home a copy of the stunning new edition of Charles Darwin's *On Natural Selection*, courtesy of Penguin Group (USA).



(L. to R.) Kathy and Tom Freston, Ellen Futter, Lorne and Alice Michaels, Chairman Lewis Bernard

MUSEUM GALA NOVEMBER 16, 2005

Always a highlight of the fall calendar, the Gala in 2005 was the Museum's most successful ever, welcoming over 500 guests and raising over \$2.1 million. The evening was chaired by Trustee couples Jurate Kazickas and Roger Altman, Jodie and John Eastman, Kathy and Tom Freston, Alice and Lorne Michaels, and Connie and Ted Roosevelt. Comedian Jon Stewart kept the evening lively in his role as master of ceremonies, Jamie Niven of Sotheby's led the spirited auction, and the evening culminated in a very special performance by rock legend Neil Young.



(L. to R.) Ellen Futter, Robert Redford, Jeffrey Peak

COSMIC COLLISIONS OPENING RECEPTION MARCH 15, 2006

Nearly 700 guests celebrated the opening of the Museum's newest space show at a reception with special guest Robert Redford, the film's narrator. Guests were entertained by SICO the Robot, sampled specialty cocktails such as the "Cosmic Fireball," and enjoyed live jazz in the Cullman Hall of the Universe.



(L. to R.) Jacqueline Sackler, Tinsley Mortimer, Claire Bernard, Zani Gugelmann, Amanda Hearst

THE WINTER DANCE: DESERT OASIS FEBRUARY 16, 2006

The 2006 Winter Dance raised a record \$279,000. The fashion house of Versace sponsored the evening, which included dinner in the Akeley Hall of African Mammals followed by dessert, dancing, and a luxury silent auction in the Theodore Roosevelt Rotunda. Chairing the event was the Museum Chairman's daughter, Claire Bernard, along with Zani Gugelmann, Amanda Hearst, Tinsley Mortimer, Jacqueline Sackler, and Ivanka Trump.



(L. to R.) Mary Solomon, Suzanne Cochran, Constance Spahn, Ellen Futter

SPRING ENVIRONMENTAL LECTURE AND LUNCHEON APRIL 26, 2006

Five-hundred of New York's prominent women from the social and business communities attended this 16th annual luncheon, which was the most financially successful in the event's history, raising over \$362,000. The event was chaired by Trustees Mary Solomon and Connie Spahn, as well as Museum friend Suzanne Cochran. The panel discussion, "Health and Our Environment," was superbly moderated by Lynn Sherr of ABC News, returning for a third year in that important role, and featured panelists Dr. Philip J. Landrigan, Dr. Frederica P. Perera, and Dr. John Wargo.



(L. to R.) Dick and Laura Parsons, Chuck Prince, Lewis Bernard

FOURTEENTH ANNUAL CORPORATE DINNER MAY 9, 2006

Charles Prince, Chairman and Chief Executive Officer of Citigroup, was the honoree of this evening which raised \$2.5 million to support Museum programs. Dinner Chairmen included Trustees Victor Ganz, CEO of The Hearst Corporation, and Richard Parsons, Chairman and CEO of Time Warner, along with Museum friends Jeff Immelt, Chairman and Chief Executive Officer of GE; William Weldon, Chairman and Chief Executive Officer of Johnson & Johnson; and Steven Volk, Vice Chairman of Citigroup.



LIZARDS AND SNAKES: ALIVE! OPENING RECEPTION JUNE 21, 2006

This fun family evening celebrated the opening of the Museum's popular live-animal exhibition, with 400 people—Trustees, donors, and their families—in attendance. The reception in the Theodore Roosevelt Rotunda embraced the lizard theme, with tropical foliage, specialty drinks called the "Gecko"—one for adults and one for children—and lizard-shaped cookies. Origami USA was on hand to fold intricate lizards and other critters for the young guests to take home.



(L. to R.) Bill Wilson, Phil Auerback, Zachary Pomerantz

JUNIOR COUNCIL EVENTS

The growing Junior Council, with 378 members, participated in a number of special events and activities throughout the year which included both social and educational components and an opportunity to meet and mingle with Museum scientists. Junior Council members were treated to a screening of the IMAX® film *The Living Sea*, a glimpse into the life of Charles Darwin, a preview of *Cosmic Collisions*, and the annual Cocktails & Live Jazz event on the Arthur Ross Terrace.



Ray deLucia installing the "Life on the Forest Floor" exhibit (1958)

REPORT OF THE TREASURER

The Museum had an excellent year from a financial perspective. During fiscal year 2006, the Museum's net assets increased by \$82.4mm, from \$623.7mm to \$706.1mm. The major factor leading to this increase was the growth of the Museum's endowment, which grew by \$39.6mm during fiscal year 2006 to a total of \$483.7mm as of June 30, 2006. Contributions receivable also grew by \$20.6mm, as the Museum continued to benefit from the strong support of Trustees as well as other individuals, foundations, corporations, and City, State, and Federal funding sources.

Operationally, the Museum was able to generate net unrestricted operating revenues of \$7.7mm, with significant growth in revenues from paid admissions and auxiliary services. The Museum continued to make significant investments in its physical plant in fiscal year 2006, totaling \$28.6mm. Major projects included the Spitzer Hall of Human Origins, scheduled to open in February 2007, and the new Genomics Laboratory.

Unrestricted Operating Results

The Museum's Net Unrestricted Operating Revenues grew from \$2.5mm in fiscal year 2005 to \$7.7mm in fiscal year 2006. Unrestricted Operating Revenues grew by \$15.3mm to \$142.3mm, as paid attendance grew to 2,781,809, the highest level since fiscal year 2001 (the first full year following the opening of the Rose Center). In addition to attendance-related revenues, other major sources of Unrestricted Operating Revenues included auxiliary revenues—which increased by \$4.8mm in fiscal year 2006, as the Museum continued to diversify its revenue base—contributions and grants, operating support from the City of New York, and support from the Museum's endowment.

The Museum continued to receive substantial operating and programmatic support from Trustees, other individuals, foundations, and corporations as well as the City of New York, New York State, and the Federal government. Contributions and grants used to fund Museum operations, including a portion of net assets released from restrictions, totaled \$43.1mm in fiscal year 2006.

The City of New York continued to provide substantial unrestricted operating support for the Museum. Over the past three fiscal years, City operating support, including support for certain energy and pension expenses, has averaged \$16.1mm. The City also provides substantial capital support to the Museum (see "Capital Expenditures" below).

Support for annual operations from the Museum's endowment—which is calculated by taking a 5 percent average of 12 quarterly market values ending the March 31 prior to the succeeding fiscal year—fluctuates according to market conditions. During fiscal year 2006, endowment support for Museum operations totaled \$19.2mm.

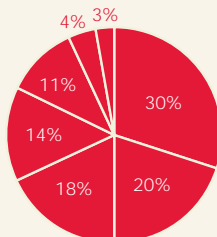
While unrestricted operating revenues grew by \$15.3mm in fiscal year 2006, unrestricted operating expenses grew by \$10.1mm. Of the \$10.1mm of expense increases, \$3.8mm represented increases to expenses in the Museum's three core mission areas: scientific research, education, and exhibition, and \$2.4mm was related to auxiliary services.

Following is a percentage breakdown of unrestricted operating revenues and expenses for fiscal year 2006:

Unrestricted Operating Revenue and Expenses Fiscal Year 2006

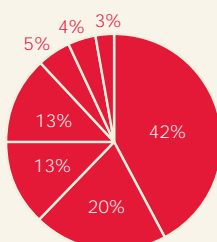
REVENUES

- 30% Contributions and Grants*
- 20% Visitor Contributions and Admissions
- 18% Auxiliary Activities
- 14% Endowment and Related Funds*
- 11% The City of New York
- 4% Membership
- 3% Miscellaneous Revenue and Other Fees



EXPENSES

- 42% Scientific Research, Education, and Exhibition
- 20% Guardianship, Maintenance, and Operating Costs
- 13% Cost of Goods Sold and Other Expenses of Auxiliary Activities
- 13% General and Administrative
- 5% Fundraising and Membership
- 4% Visitor Services
- 3% Communications



*Includes Net Assets Released from Restrictions

Capital Expenditures

The Museum continued to fund priority capital improvement projects to meet infrastructure and security needs in fiscal year 2006, and also continued to fund exhibition hall renovations and new scientific facilities. The total amount invested by the Museum in its physical plant in fiscal year 2006 was \$28.6mm. Major projects included the Spitzer Hall of Human Origins, scheduled to open in February 2007, which was named in recognition of a gift from Bernard and Anne Spitzer, and new Genomics Laboratory.

As has been the case in the past, the Museum funded most of its capital improvements with proceeds from private donations and capital support from the City of New York. During fiscal year 2006, the Museum received \$21.5mm for its physical plant, including \$14.3mm from the City of New York, and \$7.2mm from private donors.

During fiscal year 2006, the Museum recognized non-cash depreciation expense totaling \$22.7mm. As a result, the value of the Museum's physical plant net of depreciation grew by \$5.9mm during fiscal year 2006, from \$426.8mm to \$432.7mm.

Debt and Other Liabilities

The Museum's liabilities decreased by \$7.4mm during fiscal year 2006, from \$338.1mm to \$330.7mm. Major decreases to the Museum's liabilities included a decrease in the market

value of the Museum's interest rate swap obligations (as a result of higher long-term interest rates) of \$13.7mm, and a reduction to the Museum's long-term debt of \$1.0mm, from \$273.4mm to \$272.4mm. Major increases included an increase to the Museum's accrued post-retirement and other benefits of \$3.2mm, and a \$2.9mm increase due to recognition of conditional asset retirement obligations.

Endowment Funds

The market value of the endowment grew by \$39.6mm during fiscal year 2006, to \$483.7mm. This growth is attributable to a solid net return of 11.4% for the fiscal year, and cash gifts and pledge payments to the endowment totaling \$22.6mm. Planned withdrawals from the endowment for Museum operations, debt service, and capital investment totaled \$33.5mm.

The Museum's endowment asset allocation is intended both to drive investment return and to provide protection in volatile markets. During fiscal year 2006, the Museum took small steps to further broaden its investment asset allocation by adding small allocations to real assets (3%) and to emerging market equities (2%) and reduced its allocations to fixed income and to domestic equities. The Museum's endowment funds are invested by leading investment managers in diversified equity and fixed income securities and are overseen by the Museum's Investment Committee. As of June 30, 2006, the Museum's endowment was invested as follows:

Marketable Domestic Equities	28.3%
Marketable International Equities	17.6%
Marketable Emerging Markets Equities	2.0%
Absolute Return/Hedge Funds	28.0%
Marketable Fixed Income	10.1%
Marketable Real Assets	3.0%
Private Investment Partnerships	9.4%
Cash Equivalents	1.6%
Total	100.0%

The Importance of Contributions and Grants

Since embarking on its fundraising Campaign on July 1, 2000, the Museum has continued to benefit greatly from the generosity of its private and public supporters. During fiscal year 2006, the Museum received a total of \$113.1 million in support of its operations, programs, capital improvements, and endowment—a major endorsement of the scientific importance and social impact of the Museum's work in science, education, and exhibition.

Charles H. Mott

Charles H. Mott
Treasurer



AMNH anthropologist Franz Boas posing with Eskimo harpoon (© 1900)

FINANCIAL STATEMENTS

CONDENSED SUMMARY OF CONSOLIDATED STATEMENT OF FINANCIAL POSITION

	June 30, 2006	June 30, 2005
Assets		
Cash and other operating assets	\$ 41,805,244	\$ 32,521,736
Contributions and grants receivable, net	71,339,357	52,440,519
Long-term investments, at fair value	490,920,935	450,037,194
Plant and equipment, net	432,689,295	426,765,280
Total assets	\$ 1,036,754,831	\$ 961,764,729
Liabilities		
Accounts payable and other liabilities	\$ 58,321,997	\$ 64,735,470
Loan from the Trust for Cultural Resources	272,365,000	273,375,000
Total liabilities	\$ 330,686,997	\$ 338,110,470
Net Assets		
Unrestricted		
Operations	\$ 20,102,123	\$ 20,564,453
Plant and equipment	91,125,575	84,225,639
Long-term investment	264,450,424	238,418,049
Total unrestricted	375,678,122	343,208,141
Temporarily restricted	206,416,815	172,794,843
Permanently restricted	123,972,897	107,651,275
Total net assets	\$ 706,067,834	\$ 623,654,259
Total liabilities and net assets	\$ 1,036,754,831	\$ 961,764,729

STATEMENT OF ACTIVITIES

Unrestricted Operating Activity

Revenue and Support	June 30, 2006	June 30, 2005
Investment return designated for current operations	14,148,579	\$ 14,378,185
Contributions and grants	27,717,572	26,723,919
Operating support from The City of New York	16,129,501	16,080,589
Visitors' contributions and admissions	28,422,357	23,679,607
Membership fees	6,011,234	5,831,797
Auxiliary services	26,016,871	21,260,769
Miscellaneous fees and other revenue	3,508,051	3,189,247
Total unrestricted operating revenue and support before net assets released from restrictions	121,954,165	111,144,113
Net assets released from restrictions	20,304,915	15,847,419
Total unrestricted operating revenue and support	142,259,080	\$ 126,991,532

Expenses

Scientific research	34,422,242	\$ 33,804,127
Education	16,267,448	12,988,485
Exhibitions	5,735,794	5,874,128
Membership	2,168,567	2,335,906
Visitor services	6,099,485	6,025,456
Cost of goods sold and other expenses of auxiliary activities	17,372,240	15,007,874
General and administrative	17,533,412	16,729,064
Fundraising	4,743,519	4,148,892
Communications	3,664,244	3,130,418
Guardianship, maintenance, and operating costs	26,528,989	24,413,988
Total operating expenses	134,535,940	\$ 124,458,338
Operating revenue and support in excess of expenses	7,723,140	2,533,194
Transfer to long-term investment from operations	7,700,000	2,500,000
Operating revenue and support in excess of expenses and transfers	23,140	\$ 33,194

Revenue for plant

Contributions and grants	1,411,298	\$ 1,176,553
Capital support from The City of New York	14,252,918	5,902,646
Net assets released from restrictions	510,000	2,071,363
Total revenue and support for plant	16,174,216	\$ 9,150,562

Plant expenses

Interest expense	12,012,052	\$ 10,523,412
Realized and unrealized (gain) loss on swap	(12,634,613)	8,669,690
Depreciation and amortization	22,745,912	25,329,530
Plant expenses not capitalized	335,269	87,432
Total plant expenses	22,458,620	\$ 44,610,064

Unrestricted Long-Term Investment Activity

Contributions and bequests	10,206,958	2,173,896
Investment return in excess of spending plan	13,036,505	11,342,926
Contributions re-designated by donor	3,787,927	(54,000)
Net assets released from restrictions	6,895,858	13,774,518
Transfer from operations to long-term investments	7,700,000	2,500,000
Total Unrestricted Long-Term Investment Activity	41,627,245	29,737,340

Other

Cumulative effect of change in accounting	2,896,000)	0
Total other	(2,896,000)	0
Total change in unrestricted net assets	32,469,981	(5,688,968)



Museum attendant in Geology Hall (©1900)

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Baryphthengus martii from J.M. Forshaw's *Kingfishers and Related Birds* 1983-94

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Papilio ulysses from E.E. Donovan's *An Epitome of the Natural History of the Insects of India* (1800)

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The President and the Chairman are ex officio members of all Committees of the Board, Committees of the Museum, and any subcommittees thereof.



Aerial view of the Museum (1922)

CAMPAIGN FOR THE AMNH

The Campaign for the American Museum of Natural History

During this golden age of scientific discovery, humanity is poised on the threshold of unprecedented knowledge about itself and the universe. But it is also an era of acute global uncertainty in which we are racing to comprehend and protect Earth's natural habitats, foster cultural understanding, and adequately educate our children. It is a time at once exhilarating and profoundly challenging, a time when the American Museum of Natural History is called on to take a leadership role.

In this context of challenge and opportunity, the Museum announced a major new fundraising campaign in 2005, *The New Challenge: Meeting the Demands of Science and Society*, which seeks to secure \$850 million for a range of significant initiatives that address the key issues of our times. The

campaign will deepen the Museum's scientific research and educational impact; build infrastructure—both intellectual and physical—to allow the Museum to extend its reach in areas of emerging science and social urgency; and ensure the financial strength and stability of the Museum for generations to come.

As of June 30, 2006, the campaign had raised over \$635 million for a number of educational, research, and capital initiatives. Most significantly, the Museum has secured over \$210 million to build its endowment, a critical component of the campaign and vital to maintaining the Museum's financial strength and enhancing its capacity to serve the public for many years to come. For their support, the Museum is deeply grateful to new and old Museum friends, members, corporations, foundations, and government agencies.



Roy Chapman Andrews with skeleton of an Atlantic Right Whale (1934)

GIFTS AND GRANTS

July 1, 2005 through June 30, 2006

TRUSTEES, INDIVIDUALS, FOUNDATIONS, AND ORGANIZATIONS

\$1 million and above

Anonymous (5)

Mr. Joseph F. Cullman 3rd*

Estate of Anne A. Foley

Richard Gilder, Gilder Foundation, Inc.

David S. and Ruth L. Gottesman,
The Gottesman Fund

David H. Koch Charitable Foundation

Estate of Ezra Kulko

The Andrew W. Mellon Foundation

Arthur Ross Foundation

\$500,000 to \$999,999

The Atlantic Philanthropies

Jill and Lewis Bernard

Lewis B. and Dorothy Cullman Foundation

Charles Hayden Foundation

Norma Hess, Hess Foundation, Inc.

Gary Saltz Foundation

\$250,000 to \$499,999

The Louis Calder Foundation

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Sibyl R. Golden, Golden Family Foundation

Mr. and Mrs. Frederick A. Klingenstein,
The Esther A. and
Joseph Klingenstein Fund

The John D. and Catherine T.
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AMNH anthropologist Margaret Mead (© 1950s).

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DIVISION OF ANTHROPOLOGY

SCIENTIFIC PUBLICATIONS

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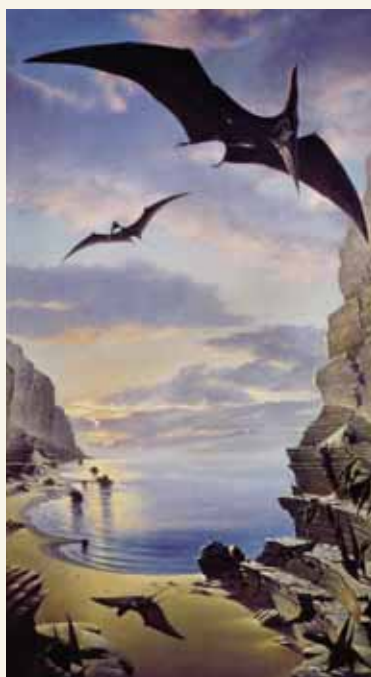
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