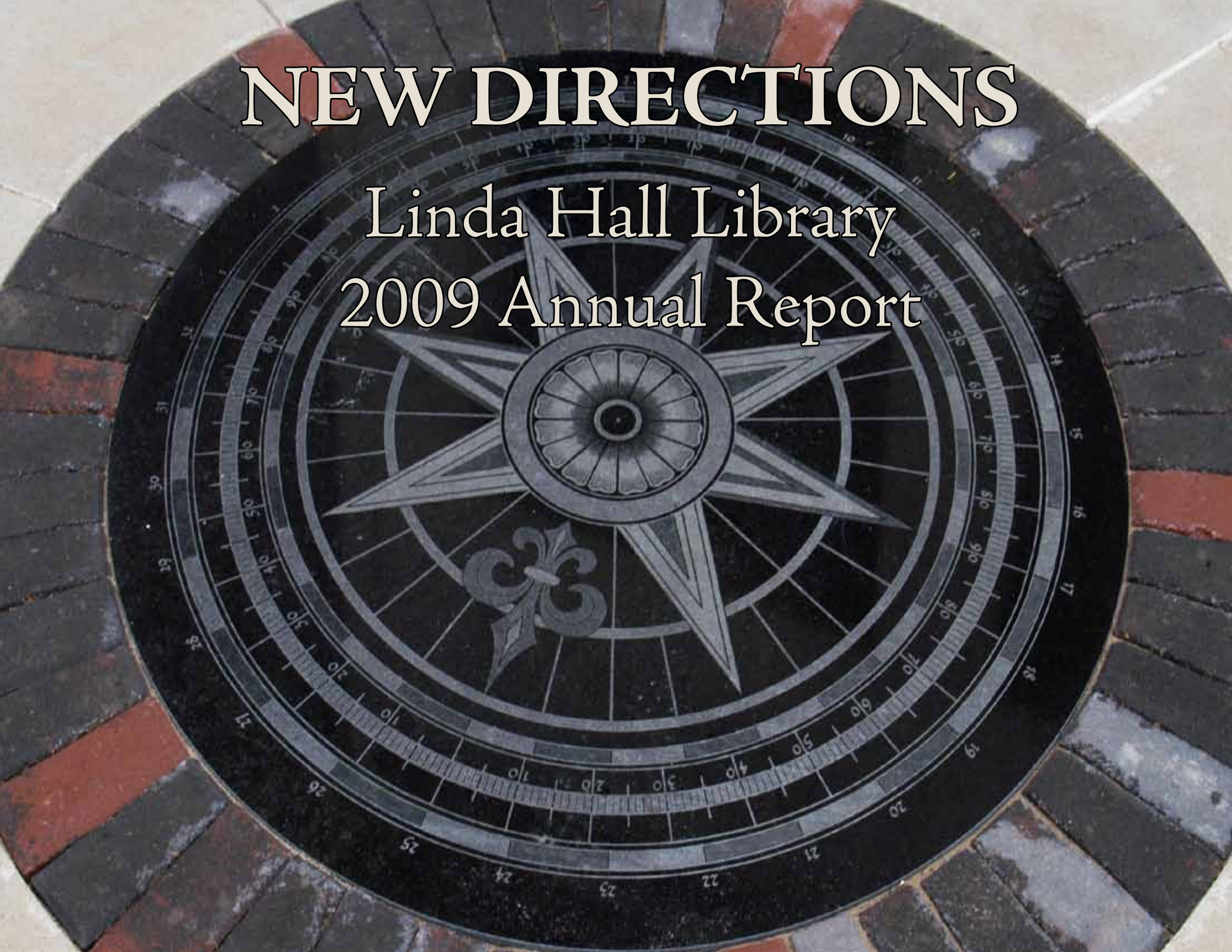


NEW DIRECTIONS

Linda Hall Library
2009 Annual Report



The Linda Hall Library
5109 Cherry Street
Kansas City, Missouri 64110

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Lisa M. Browar

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The 2009 Annual Report is dedicated to the
memory of Lathrop M. Gates,
Linda Hall Library Trustee, 2005-2009.



Linda Hall Library

SCIENCE, ENGINEERING & TECHNOLOGY—
INFORMATION FOR THE WORLD

PRESIDENT'S REPORT

In the Linda Hall Library's 2008 *Annual Report*, I posed several questions regarding the ways in which the Library might leverage its vast and continually expanding wealth of information to support the research needs of scholars and increase the general public's familiarity with science. This year, our efforts in pursuit of these goals produced some very gratifying results. During 2009,

- We began a project that will culminate in a new and greatly improved online catalog by the end of 2011. Powered by software produced by ExLibris, one of the world's leaders in information management, the new and improved Linda Hall Library Online Catalog will provide its users with an ease of searching and a depth of results that far surpass the catalog tools that have been available. Improved catalog searching will enable researchers to obtain more of the information they seek in less time.
- Our exhibitions and lecture series attracted some of the largest audiences in the Library's history.
- Our decision to videotape the Library's lectures and make the recordings freely available on our website (www.lindahall.org) and as free downloads at the iTunes Store has enabled us to extend the Linda Hall Library's public programming to an international audience.
- LHL Digital Collections, containing digitized versions of Library exhibitions along with thousands of high resolution images and full-text journal articles, has won praise from scholars working at a geographic distance who depend upon remote access to research material.



Lisa M. Browar, President.

Clearly we have made excellent progress toward our goals of supporting research in science, engineering, and technology, and increasing the public's understanding of science in contemporary life. But many more exciting opportunities await and the Library's talented and dedicated staff is working diligently to build our collections and find new ways to extend the richness of the Library's resources to our constituents.

Please join us in the coming year as we continue our explorations into the fascinating worlds of science, engineering, and technology. We look forward to welcoming you.

A handwritten signature in cursive script that reads "Lisa M. Browar". The signature is written in dark ink and is positioned at the bottom right of the page.



PROGRAMS
EXHIBITIONS, LECTURES & SPECIAL EVENTS





Library visitors eagerly anticipate the beginning of a lecture.

“There are not enough occasions out there for the public to see and hear a world of science without sound bites,” remarked astrophysicist Neil deGrasse Tyson, moderator of the Linda Hall Library’s 2009 Climate Change Symposium. Tyson, the Frederick P. Rose Director of the Hayden Planetarium, speaks with authority. As an advocate for increased knowledge of and attention to the sciences, he understands the value of public education programs that emphasize the importance of science in daily life.

The Linda Hall Library’s commitment to public education was in full evidence in 2009. The highlights included, *To the Moon and to the Planets Beyond*, a four-part series devoted to the history and future of space flight that captured the imagination of large audiences. A day-long symposium devoted to climate change that brought world-renowned scientists to Kansas City in a forum intended to make the complicated topics associated with this controversial issue accessible followed. The Climate Change Symposium was sponsored by the Enid and Crosby Kemper Foundation, UMB, n.a. Trustee.

An even larger audience was able to share these experiences via the Internet. Beginning in 2009, every public program offered by the Linda Hall Library is videotaped and made available on the Library’s website (www.lindahall.org) and as free downloads at the iTunes store. The response has been gratifying with expressions of thanks arriving from Europe, Asia, and the Pacific.

Clockwise from top left:

After his lecture, Greg Hilmas converses with members of the audience. Roger Easton Jr. presents his work on the Archimedes palimpsest. Lyanda Lynn Haupt addresses the audience at the opening of *The Grandeur of Life* exhibition. Charles D. Bailyn, the speaker for the seventh Bartlett Lecture, waits in the wings during his introduction.

In the coming years the Library will continue to bring intriguing and thought-provoking topics to widespread public attention through its lecture series, exhibitions, and symposia. Whether you are able to attend in person or visit us virtually, we hope you will join us and become part of an international community of lifelong learners



EXHIBITIONS

SINGULAR BEAUTY

Simple Microscopes from the Giordano Collection



Imagine a modern laboratory filled with state-of-the-art scientific equipment. Many words to describe the sight may come to mind, but the word “beautiful,” may not be among them. Before the age of mechanical reproduction when tools were made individually and by hand, scientific instruments of the 17th, 18th, and 19th centuries were as beautiful as they were functional. The exhibition, *Singular Beauty: Simple Microscopes from the Giordano Collection and Rare Books from the Linda Hall Library*, featured 127 single-lens microscopes, each made by hand and all clearly beautiful.

These hand-held scientific tools were meticulously fashioned, representative of the craftsmanship and attention to detail that went into the making of each instrument. “These useful and elegant instruments were meant to be carried about and shown off,” remarked History of Science Librarian Bruce Bradley. “Charles Darwin, for example, used simple microscopes to examine the flora and fauna he discovered on the voyage of the HMS *Beagle*.”

The microscopes on display were supplemented by selected rare books devoted to microscopy from the Library’s History of Science Collection. The books on view featured drawings and illustrations of the original microscopes and the amazing results obtained by the scientists who used them.

Left: Banck’s Botanical microscope with wooden case, slides and tools on display in the East Gallery.

Above, left to right:

Raymond Giordano and Bruno Jacomy unpack microscopes; Bausch pre-patent Excelsior pocket and dissecting microscope; Lindsay’s snuff box simple microscope; Miniature microscope from *Journal of the Royal Microscopical Society*, 1878; W. & S. Jones Botanical microscope with ivory slides.

Collector Raymond V. Giordano, and Bruno Jacomy, Assistant Director of the Musée des Confluences in Lyon, France, offered remarks at the exhibition’s opening. After the exhibition closed on September 12, the microscopes were transferred to their permanent new home, the Musée des Confluences. The Linda Hall Library was honored to be the final U.S. exhibition venue for these exceptional instruments.

This exhibition was made possible with generous support from Thomas F. Peterson, Jr. and Raymond V. Giordano.



EXHIBITIONS
The Grandeur of Life

EXHIBITIONS - *The Grandeur of Life*



In 2009, the Library celebrated the bicentennial of Charles Darwin's birth and the 150th anniversary of the publication of his *On the Origin of Species* with the exhibition *The Grandeur of Life*. Curated by William B. Ashworth, Jr., Professor of History at the University of Missouri—Kansas City and Consultant for the History of Science at the Linda Hall Library, the exhibition showcased the four centuries of natural history tradition out of which Darwin himself evolved. On display were 57 works from the Library's History of Science Collection dating from Peter Schoeffer's publication of *Der Gart der Gesundheit* (*The Garden of Health*) in 1485, to the publication of *On the Origin of Species* in 1859. "Not only are these books important intellectually," said Ashworth, "but they are also some of the most beautiful books ever published."

To open the exhibition on October 1, author and naturalist Lyanda Lynn Haupt presented "Darwin's Evolution as Naturalist: A Bird's-eye View." Marine biologist Daniel Pauly, Professor of Fisheries at the University of British Columbia, spoke on October 29 about the impact of Darwin's voyage on the *Beagle* to marine biology. Concluding the series on December 1, writer, naturalist, and historian Robert McCracken Peck, Senior Fellow of the Academy of Natural Sciences of Philadelphia, presented a biographical sketch of 19th century natural history artist Benjamin Waterhouse Hawkins who illustrated the works of Darwin and other leading 19th century scientists.

The exhibition and lectures were made possible by a grant from the Victor E. Speas Foundation, Bank of America, Trustee.

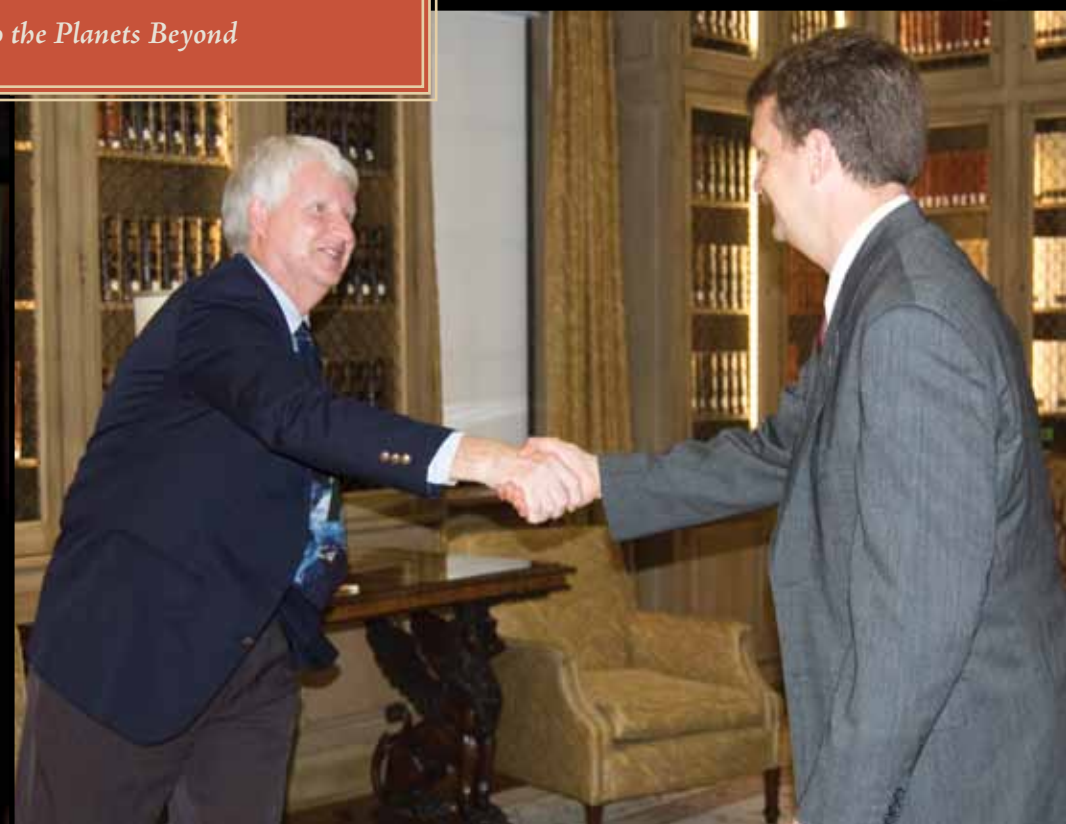
Left: Galápagos ground finch by Elizabeth Gould for Charles Darwin in *The Zoology of the Voyage of H.M.S. Beagle*, 1839.

Above, left to right:

Louisiana Heron by John James Audubon; *Grandeur of Life* lecture series speakers Daniel Pauly, Robert McCracken Peck and Lyanda Lynn Haupt.



LECTURES
To the Moon & to the Planets Beyond



LECTURES - *To the Moon & to the Planets Beyond*



Earthrise seen from the Moon, photographed by Ron Evans as part of Apollo 17.

In September 1962, President John F. Kennedy delivered an inspirational speech at Rice University imploring Americans to embrace the scientific and engineering challenges associated with a successful lunar landing and return to Earth. At the time, only two American astronauts, John Glenn and Scott Carpenter of Project Mercury, had orbited earth. A mere seven years later in July 1969, astronauts Neil Armstrong and Buzz Aldrin fulfilled President Kennedy's vision and became the first humans to set foot on the moon.

In September 2009, the Library's lecture series, *To the Moon and to the Planets Beyond*, commemorated the 40th anniversary of the first lunar landing, the 50th anniversary of Project Mercury, and the 2009 International Year of Astronomy. Inaugural speaker Harrison Schmitt, the last of 12 American astronauts to walk on the moon and the only scientist, called for a permanent resumption of deep space exploration with a return to the moon and a mission to Mars.

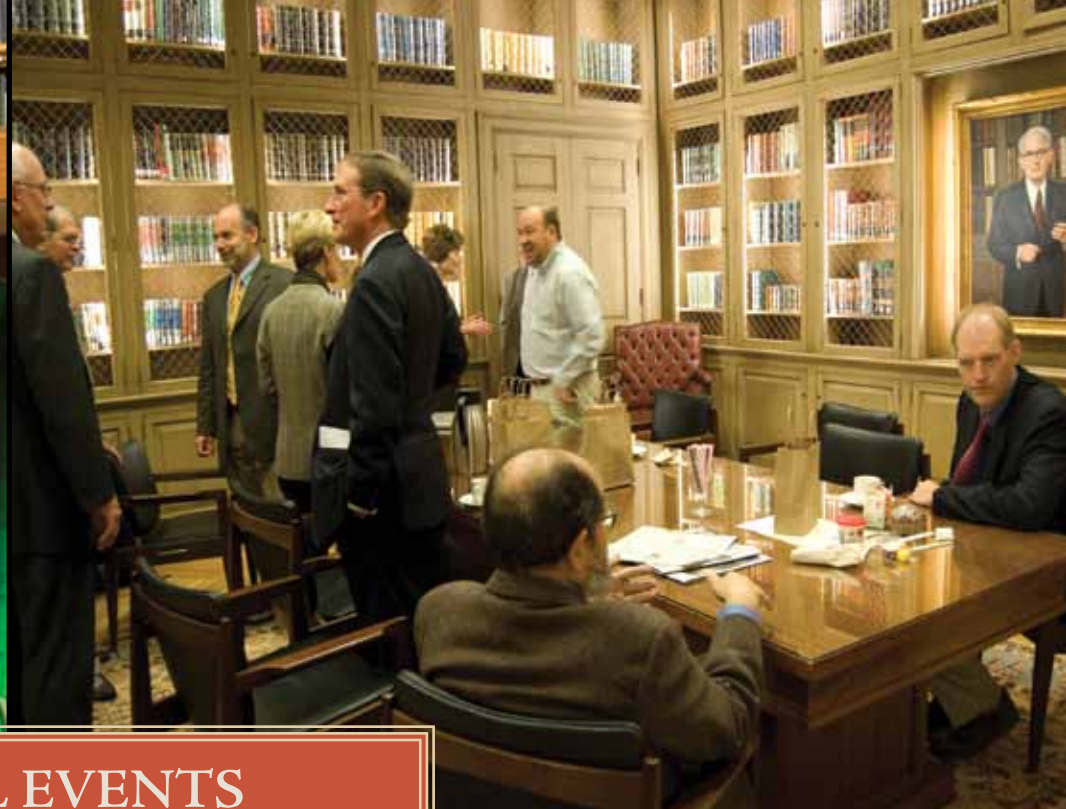
The next two lectures highlighted deep space telescopes and unmanned probes. Veteran space shuttle astronaut Steve Hawley shared his spaceflight experiences deploying and maintaining the Hubble Space Telescope. NASA astrophysicist Jonathan Gardner discussed plans for Hubble's successor, the James Webb Space Telescope, scheduled to launch in 2013. Planetary scientist and four-time shuttle astronaut Tom Jones joined forces with planetary geologist Ellen Stofan to convey exciting new insights into the stories of Earth and planetary landscapes in our solar system, and to present compelling new images of Earth and remarkable scenes of alien surfaces beamed home by astronauts and our far-ranging robotic probes.

The final lecture featured Mercury 7 astronaut Scott Carpenter, his daughter and co-author Kris Stoever, and novelist Thomas Mallon, author of *Aurora 7*. The trio engaged in conversation about Project Mercury and the flight of Carpenter's space craft, *Aurora 7*, the second U.S. orbital flight. Asked about the challenges and uncertainties facing future spaceflight missions, Carpenter responded with the optimism characteristic of his Mercury days: "Every time we do something new, there is an unknown pointed out by somebody...but we can do anything we can set our mind on if we work hard enough at it."

Clockwise from top left:

Harrison Schmitt prepares for a press conference before his lecture. Kris Stoever, Scott Carpenter and Tom Mallon discuss survival training during Project Mercury. Ellen Stofan and Tom Jones describe satellite images of Earth's geological features. Jon Gardner and Steve Hawley meet in the Trustees Room.

This lecture series was made possible through the generous support of Mr. & Mrs. James B. Hebenstreit and Dr. James and Mrs. Francie Flynn.



SPECIAL EVENTS

CLIMATE CHANGE SYMPOSIUM





A view of Kansas City in motion provided the signature image for the symposium.

The complex and often contradictory science of climate change has become one of the most heavily reported issues in the media in recent years and will likely remain so for the foreseeable future. Recent assessment reports from the Nobel Prize-winning Intergovernmental Panel on Climate Change reveal strong evidence of a warming trend due to human activity. Yet, a vocal group of reputable scientists question these results.

On October 16, the Linda Hall Library hosted a one-day symposium in which experts from around the country explored the fundamental, and often ambiguous, issues of climate change. From basic climate science to the assessment of global warming evidence, a world-renowned faculty presented research from the viewpoint of their respective scientific disciplines. The day's presentations endeavored to clarify for over 350 conference attendees the complex and rapidly evolving study of climate change.

The symposium was moderated by astrophysicist Neil deGrasse Tyson, the Frederick P. Rose Director of the Hayden Planetarium, and host of PBS' NOVA ScienceNow. Speakers included Thomas Lovejoy, Biodiversity Chair at the Heinz Center for Science, Economics & the Environment; James Fleming, Professor of Science, Technology and Society at Colby College; Johannes Feddema, Professor of Climatology in the Department of Geography at the University of Kansas; Gavin Schmidt, climate scientist at the NASA Goddard Institute for Space Studies; Richard Lindzen, Professor of Meteorology at the Massachusetts Institute of Technology; and Robert Mendelsohn, Professor of Economics at Yale University.

The symposium was made possible through a generous grant from the Enid and Crosby Kemper Foundation, UMB, n.a. Trustee.

Clockwise from top left:

Symposium moderator Neil deGrasse Tyson addresses the audience.
Symposium faculty engage in conversation before the conference.
James Fleming explores the roots of global climate change. Thomas Lovejoy presents interactions between the natural world and climate change.

PROGRAMS - COMPLETE LISTING FOR 2009



Lectures & Special Events

February 5, Paul D. Bartlett, Sr. Lecture

How to See a Black Hole, Dr. Charles D. Bailyn, Yale University

February 26

*The Role of Materials in the Development of Mankind**

Dr. Wayne Huebner, Missouri University of Science and Technology

March 19

*The Green Rebirth of Greensburg**

Mr. Stephen Hardy, BNIM Architects

April 16

*PhytoForensics: Use of In-Planta Sampling Devices**

Dr. Joel Burken, Missouri University of Science and Technology

May 16

The Galápagos: Exploring Darwin's Tapestry

Dr. John Hess, University of Central Missouri

Above, left to right:

Richard Lindzen at the Climate Change Symposium; visitors to *The Grandeur of Life* exhibition; Ellen Stofan signs a copy of *Planetology*; John Hess, author of *The Galápagos*, talks about his travels; Tom Jones meets a future scientist. Following page: The audience awaits the beginning of a lecture; teachers at ASM Materials Camp; Steven Hardy answers questions after his talk on Greensburg, Kansas; students pose with Neil deGrasse Tyson at the Climate Symposium.

June 14-18

ASM Materials Camp for Teachers co-hosted with the University of Missouri—Kansas City

September 2

Rationale for a Return to the Moon, and Soon!

Dr. Harrison Schmitt, former Apollo 17 astronaut

September 3

*Ultra-high Temperature Ceramics for Applications in Extreme Environments**

Dr. Greg Hilmas, Missouri University of Science and Technology

September 9

Finding our Origins: The Hubble and James Webb Space Telescopes

Dr. Steven Hawley, University of Kansas, and Dr. Jonathan Gardner, Goddard Space Flight Center

September 16

Planetology: Unlocking the Secrets of the Solar System

Dr. Thomas Jones, former shuttle astronaut, and Dr. Ellen Stofan, Proxemy Research

September 23

Lone Eagles: America's First Orbital Spaceflights

Commander Scott Carpenter, former Mercury astronaut, Dr. Thomas Mallon, novelist, and Kris Stoeber, author and historian

PROGRAMS - COMPLETE LISTING FOR 2009



Lectures & Special Events *continued*

October 1

Darwin's Evolution as Naturalist: A Bird's-eye View
Lyanda Lynn Haupt, author and naturalist

October 8

*Heavens, What a Mess!**
Dr. William P. Schonberg, Missouri University of Science and Technology

October 16

The Linda Hall Library Climate Change Symposium

October 29

Darwin Goes Fishing: The Voyage of the H.M.S. Beagle and its Impact
Dr. Daniel Pauly, University of British Columbia

November 12

*Reading Between the Lines: Revealing the Secrets of Ancient Manuscripts through New Imaging Techniques**
Dr. Roger Easton Jr., Rochester Institute of Technology

December 3

Fleshing Out the Bones: The Extraordinary Life and Times of Benjamin Waterhouse Hawkins
Dr. Robert McCracken Peck, Academy of Natural Sciences of Philadelphia

Film Series

April 11- *Darwin's Dangerous Idea*, NOVA (1991)
April 18- *Inherit the Wind*, Universal Studios (1960)
April 25- *Alfred Russel Wallace: One in a Generation*, Barebone Films (2003)
and *Trog*, Warner Brothers (1970)
August 10- *To the Moon*, NOVA (1999)
August 17- *The Dish*, Warner Brothers (2000)
August 24- *When Worlds Collide*, Paramount (1951)
October 5- *Mountains of the Moon*, TriStar Pictures (1990)
November 2- *Gorillas in the Mist*, Universal Pictures (1988)
December 7- *October Sky*, Universal Pictures (1999)

Exhibitions

April 30 – September 12

Singular Beauty: Simple Microscopes from the Giordano Collection and Rare Books from the Linda Hall Library

October 1 – March 27, 2010

The Grandeur of Life: A Celebration of Charles Darwin and the Origin of Species

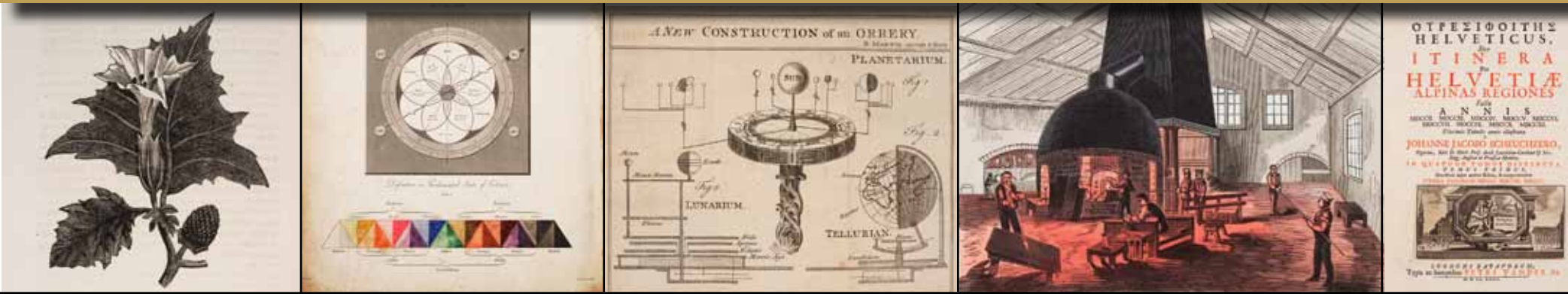
* Lectures sponsored by The Friends of the Linda Hall Library and Swiss Re.



COLLECTIONS
RECENT ACQUISITIONS
IN HISTORY OF SCIENCE

*Vue du Bain de WALTERSWYL,
au Canton de ZUG.*

- 1 La Chapelle.
- 2 La Maison principale.
- 3 Le Bain.
- 4 La fontaine du Bain.
- 5 La Source et le cours de l'eau.



Robert Thornton is most famously known for his elaborate *Temple of Flora*. The Library acquired a copy in the 1960s, and it is surely one of the grandest works of natural history ever produced. A new acquisition to the Library's History of Science Collection includes Thornton's *New Family Herbal*, a book of more modest scale, but one that is illustrated with plants drawn from nature by Peter Henderson and engraved on wood by Thomas Bewick. Bewick pioneered the art of wood engraving and is widely celebrated for his depictions of mammals, British birds, and the vignettes that grace the ends of chapters in his own books. His skills were here applied to the depiction of plants used in medicine, diet, and the arts.

Another new acquisition is the second, enlarged edition, of Johann Jakob Scheuchzer's *Ouresiphœites Helveticus*, a natural history survey of Switzerland of 1723. It is greatly expanded from the first edition of 1708, which the Library already owned. The four-volume work details all of Scheuchzer's nine visits to the Alps between 1702 and 1711, and is illustrated with 139 engraved plates.

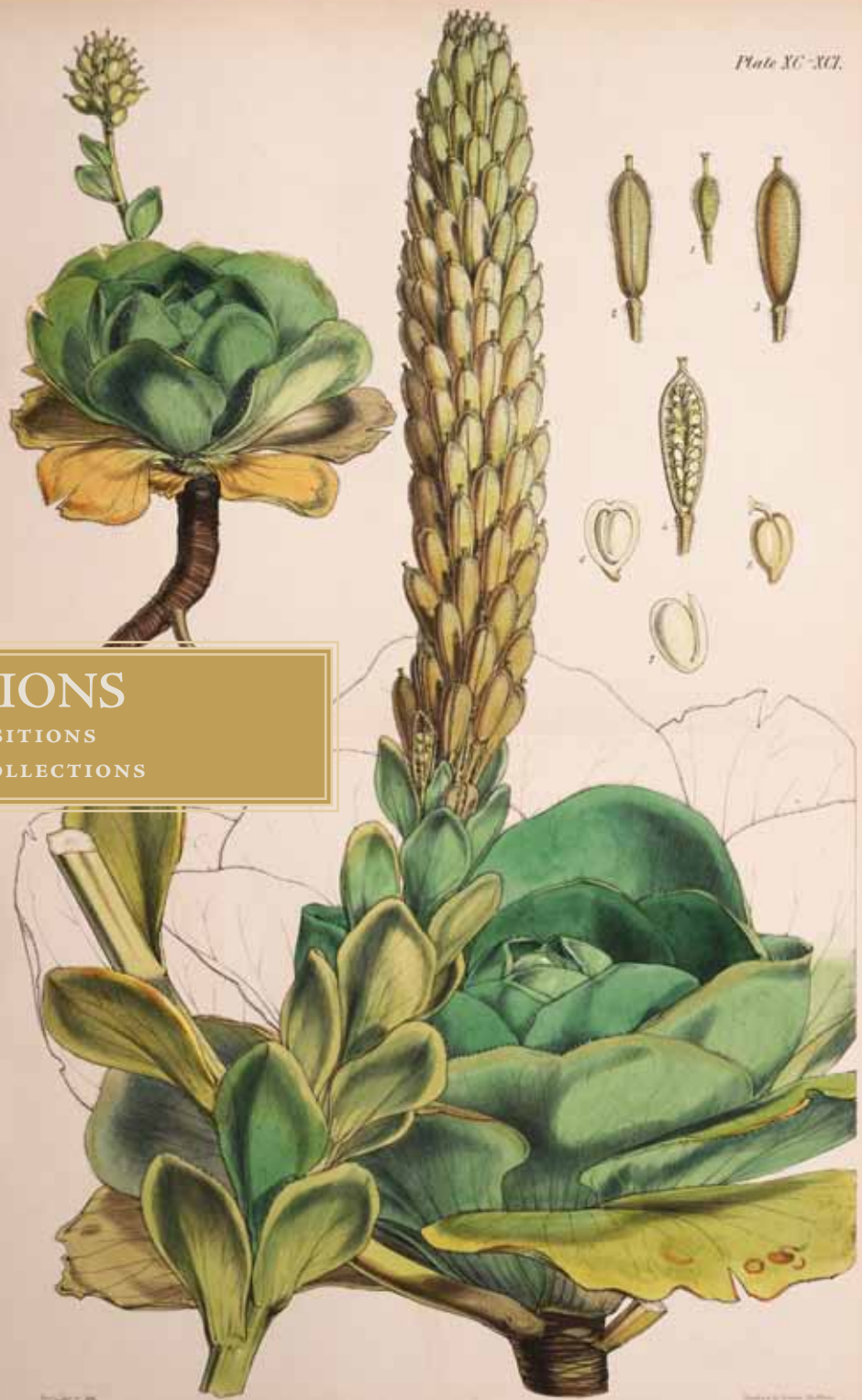
A rare first edition of a pamphlet by the English instrument-maker Benjamin Martin announced a new and improved orrery. *The Description and Use of an Orrery of a New Construction* describes in detail the instrument's primary components and, importantly for any potential buyer, how to use them. By the mid-18th century, orreries were favored over armillary spheres in England as visual aids for astronomy lectures, and Martin is credited for being primarily responsible for popularizing the orrery as an educational tool.

Left: View of the Bathing House in Walterswyl from Johann Scheuchzer's *Ouresiphœites Helveticus*, 1723.

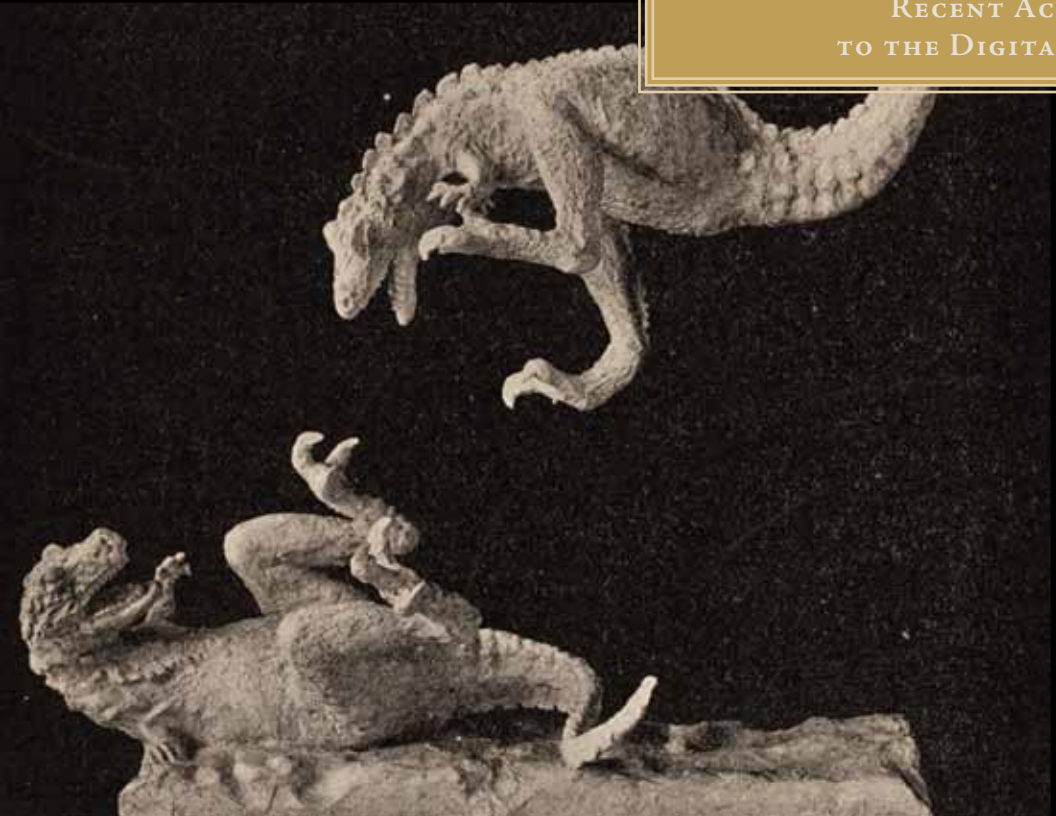
Above, left to right:

Illustrations from recent acquisitions- Thorn-Apple from *New Family Herbal* by Robert Thornton; frontispiece of *Chromatography* by George Field, 1835; Benjamin Martin's orrery; the Manufacture of Glass from *Diagrams of Arts, Sciences, and Manufactures*, 1854; and the title page of *Ouresiphœites Helveticus*.

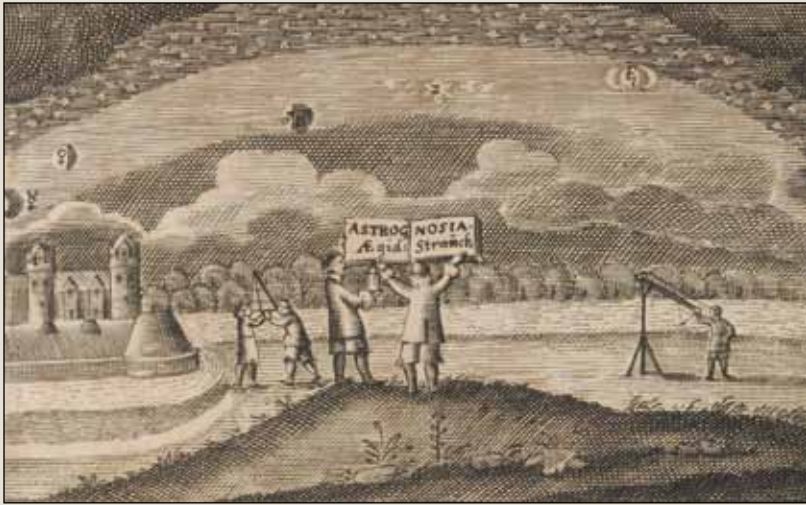
In addition to these three publications, the Library acquired nearly 50 rare book titles in 2009. The Linda Hall Library's History of Science Collection of over 10,000 printed books from the 15th century to the present represents an invaluable resource for scholars, students, and researchers from around the world.



COLLECTIONS
RECENT ACQUISITIONS
TO THE DIGITAL COLLECTIONS



Protea subcapitata, var. *f.*



Astrognosia by Aegidius Strauch was originally published in 1668 and added to LHL Digital in 2009.

In its second year as a freely available research resource, the LHL Digital Collections (lhdigital.lindahall.org) have grown to include more than 34,000 digitized images. The ability to provide digital surrogates of important research resources helps to increase the value of these resources in important ways: by facilitating access to digitized images anytime and anywhere an Internet connection is available, and by reducing the number of times an original artifact is handled.

In 2009, LHL Digital Collections expanded with additions to existing collections and the inception of three major collections.

Derived from the successful and popular exhibition *Ice: A Victorian Romance*, the new digital collection, *Ice: 18th – 19th Century Polar Explorations & Glacial Studies*, presents images from the exhibition along

with additional content that reflects the larger range of images pertaining to this subject available in the Linda Hall Library and digitized full text versions of related journal articles.

Similarly, *Dinosaur Discovery: Early Published Images* expands upon the illustrations incorporated in the Library's exhibition, *Paper Dinosaurs* (1996 – 1997). This expanded collection presents digitized versions of original materials related to the history of dinosaur discovery.

Left to right:

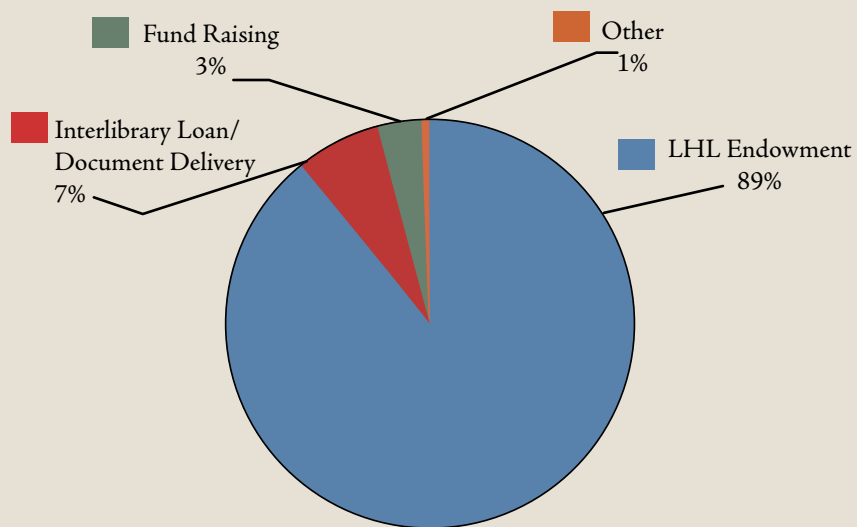
Two renditions of Laelaps are presented in the "Dinosaur Discovery" collection: the bottom model is by Henry Osborne published in 1898 in *Science* and the top interpretation is from *Tiere der Urwelt*, a series of cards available with the purchase of a cocoa product. Joseph D. Hooker's botanical illustration of *Pringlea antiscorbutica* is part of the "Ice" collection.

The Parachute History Collection brings together a selection of public domain technical reports that comprise a history of the development of parachutes and related devices used to slow the descent of objects through air. The Library developed this collection in collaboration with the Aerodynamic Deceleration Systems Technical Committee of the American Institute of Aeronautics and Astronautics.

A grand, ornate library with high ceilings and floor-to-ceiling bookshelves. The shelves are filled with books, and a portrait of a man in a suit is displayed on a desk in the center. The room is furnished with a large, light-colored sofa, a round wooden coffee table, and several armchairs. A blue text box is overlaid on the center of the image.

RESOURCE ALLOCATION
AN OVERVIEW

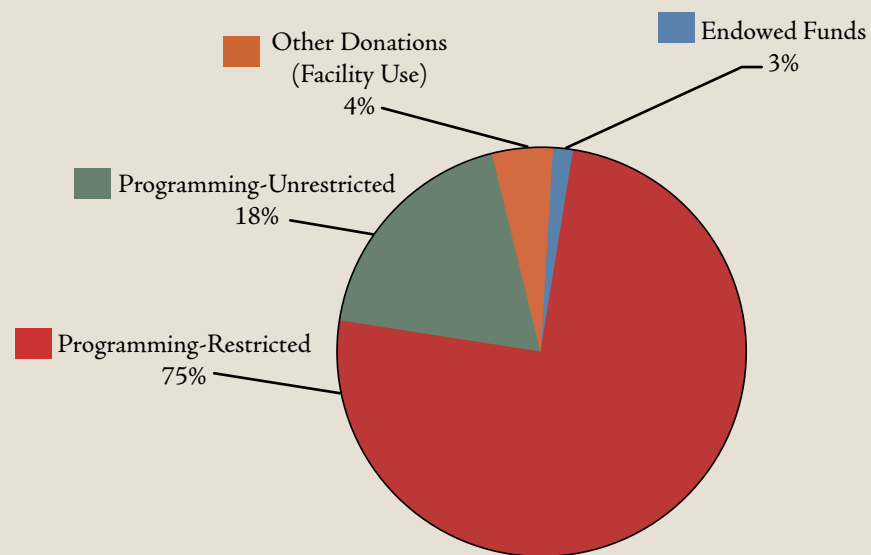
RESOURCE ALLOCATION - AN OVERVIEW



SOURCES OF SUPPORT - FISCAL YEAR 2009

The Library did not escape the impact of the recent global economic downturn. Early and significant financial decisions, however, mitigated the decrease in operating revenue. Reduced spending across all departments, along with strategic collection development decisions, kept Library services operating at full strength throughout the year. The foresight to operate more efficiently also enabled the Library to avoid staffing layoffs that have plagued other non-profit cultural institutions across the country. Indeed, the new, streamlined Linda Hall Library continues to provide the same high level of services and programs for scholars, students, researchers, academic institutions and businesses throughout Kansas City and around the world.

Charitable contributions help make possible the Library's wide array of public lectures, exhibitions, and special events. It is noteworthy that during 2009, a year marked by acute budget constraints and a worldwide financial downturn, the Library celebrated its most successful programming season.



CONTRIBUTIONS - FISCAL YEAR 2009

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The Board of Trustees and the Library Staff appreciate the support of our friends and benefactors. Your interest, participation, and advocacy help sustain the Library as a cultural and intellectual resource.

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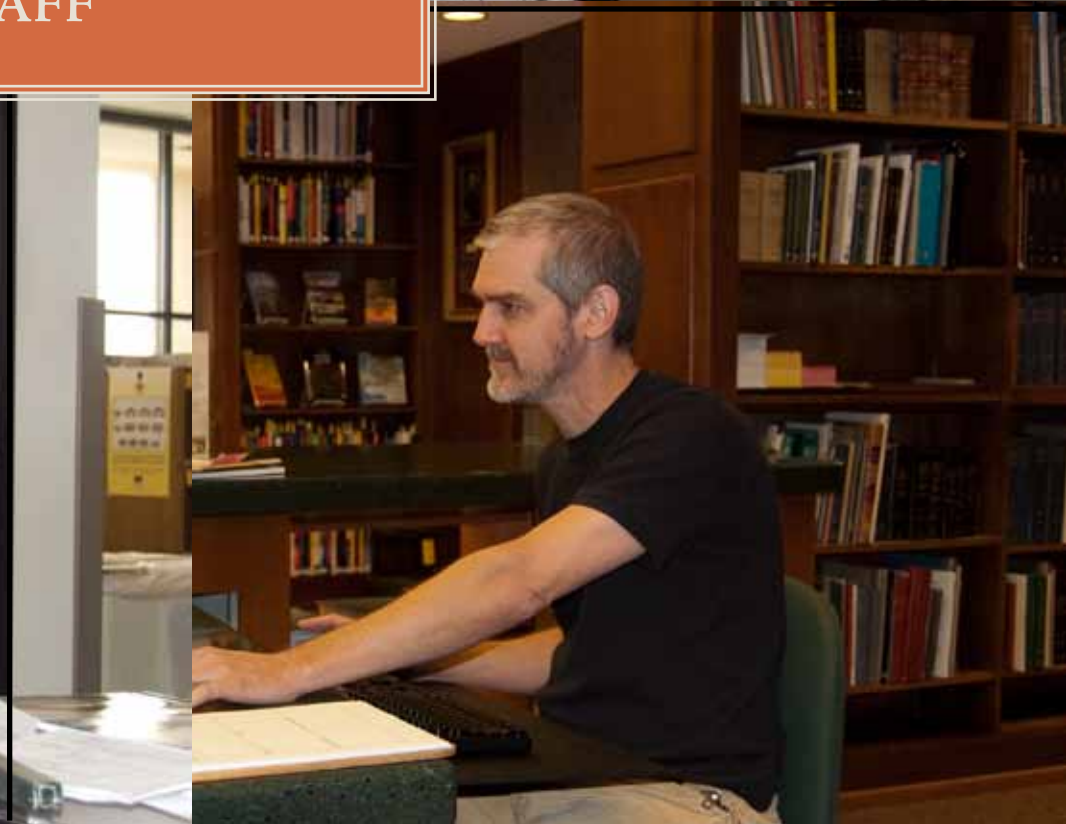
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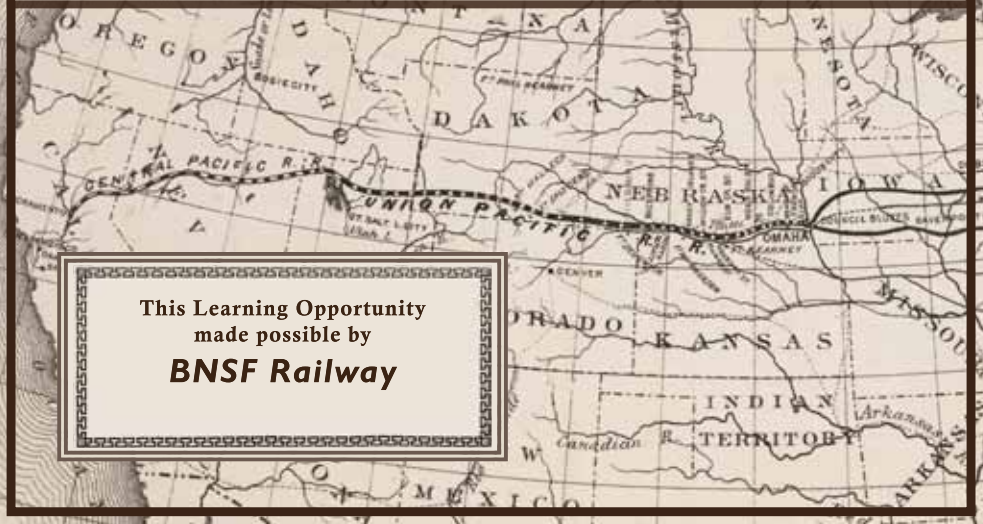
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AFTERWORD

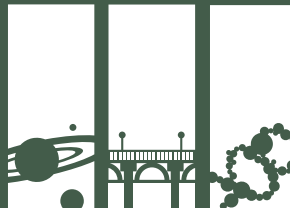


Cards representing Eugène Séguy's seven base colors and the front cover of *Code Universel des Couleurs*.

The colors used in this *Annual Report* are based on Eugène Séguy's *Code Universel des Couleurs* published in 1936. As an entomologist for the Muséum National D'Histoire Naturelle in Paris, Séguy specialized in Diptera (true flies), but was also an accomplished illustrator. He developed his universal code of colors for use in science, art and industry. His intention was to create a simplified system consisting of 720 colors from seven base colors, elaborated by numerical designations. He applied his color system in *Les Dipteres de France, Belgique, Suisse*. The Library owns 14 of his entomological works, including books on Diptera, Stag Beetles, African Mosquitoes and monographs from the *Encyclopédie Entomologique* series.

The cover image is a photograph of the compass rose in front of the Linda Hall Library. The compass rose is based on an illustration from Joan Blaeu, *Atlas maior*, 1662.

The type face used in this report is Adobe Jenson Pro, named for Nicolaus Jenson, a 15th century printer and typographer.



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