

## TABLE of CONTENTS

ront Cover	
able of Contents	2
eadership	
Marilyn B. Hebenstreit	3
Lisa Browar	
rograms: Exhibitions and Events	
Lectures & Other Events	5
ICE: A Victorian Romance	7
Locomotion: Railroads in the Early Age of Steam	9
ASM Materials Camp	
2008 Events: Complete Listing	
The Collections	
Recent Acquisitions	. 15
The LHL Digital Collections	_
Gifts Control of the	
The William T. Deramus III Cosmology Theater	19
Arboretum Pathway	_
Donors	
desource Allocation	
taff	
Look Ahead	
fterword	

On the cover: The Main Reading Room, Linda Hall Library.

#### **LEADERSHIP**

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Marilyn B. Hebenstreit, Chairman

The long and thoughtful search for a new president came to a close last spring when we hired Lisa Browar. She arrived at the Linda Hall in September tasked with transforming our library into an institution adapted to the information needs of the 21st century user. Her background demonstrates how well prepared she is to appreciate both the strengths of the Linda Hall and the challenges it faces in the new information age.

Lisa spent the last six years as the University Librarian of The New School in New York. She was responsible for strategic planning and for making that library and its collections accessible to the online user. She consolidated three independent university libraries into one administrative unit with a rationalized collection development strategy,

Marilya Helinstrut

created and staffed a Digital Library, and established an institutional repository. In addition to managing and modernizing the library, she was also responsible for marketing and fundraising, and she supervised revision of the library's website.

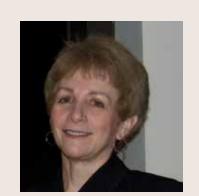
Earlier in her career Lisa was the Lilly Librarian of the Lilly Library, an internationally known rare book and manuscripts library, at the University of Indiana and the Brooke Astor Chief Librarian for Rare Books and Manuscripts at the New York Public Library. Her expertise in this area will add significant support to the development and utilization of the Linda Hall's superb History of Science collection.

Please join us in welcoming Lisa to Kansas City.

## LEADERSHIP

LISA BROWAR, PRESIDENT

Throughout its distinguished history, the Linda Hall Library has collected both widely and deeply in the areas of science, engineering, and technology, and in the process it has amassed a collection of nearly unparalleled strength in many and diverse subject areas. To further awareness of these riches, the Library has offered exhibitions and programs designed to increase familiarity with the institution and its collections, and to engage the interest and imagination of all visitors to the Library.



Lisa M. Browar, President

The challenges now before us are, "how and in which ways will the Linda Hall Library re-imagine its collections and services to meet the information needs of the twenty-first century?" "How will the Library's vast wealth of information be leveraged to support the research needs of scholars and industries, and increase science literacy throughout the general public?" These, and other questions pertaining to the future of information, are being considered and addressed every day by the Library's dedicated staff.

Because technology moves swiftly and with it, the creation, storage and use of information, predicting the future of information management is difficult. But this much is known. The Linda Hall Library will continue to build its collections in ways that will assure its continued position as one of the nation's pre-eminent research libraries for science, engineering, and technology. Additionally, the Library will seek new and exciting opportunities to promote the concept of lifelong learning in the sciences. We will do this by offering innovative new programs, symposia, seminars, film series, and other learning opportunities, all planned with the goal of increasing science literacy throughout the population, regardless of age or level of education.

It is a distinct honor to lead the Linda Hall Library as it embraces these new challenges. I invite you to review the Library's accomplishments during 2008 in these pages, and to visit our website (www.lindahall.org) to follow our progress and learn about our programs and events. Visit the website often. Better yet, visit the Library soon!

Lisa M. Browner

"The library is not a shrine for the worship of books...
A library ... should be the delivery room for the birth of ideas." NORMAN COUSINS



# PROGRAMS Lectures & Other Events



Visitors enjoy the festivities at a Library reception.

The Linda Hall Library's 2008 programs featured eminent scientists and engineers speaking on topics of interest to lifelong learners. In January Dr. Robert Cava, the Russell Wellman Moore Professor of Chemistry at Princeton University, presented *From Cold Quicksilver to Levitating Trains* at the sixth annual Paul D. Bartlett Sr. Lecture.

In May the Library hosted the Opening Author Reception for the Kansas City Literary Festival with VIP guest-of-honor, science author and former Apollo astronaut Harrison Schmitt. A special evening was offered to the community in November when Homer Hickam, author of *Rocket Boys* and the inspiration for the movie *October Sky*, presented a public lecture on the future of science education and the space program.

The Friends of the Linda Hall Library sponsored six lectures during 2008. Four of the lectures featured speakers from Washington University. A complete listing of speakers and topics appears on page 12. The Friends of the Linda Hall Library Lecture Series was supported in part by Swiss Re.

# "... wisdom is not a product of schooling but the lifelong attempt to acquire it." ALBERT EINSTEIN

**Far left above:** Astronaut and author Harrison Schmitt signs *Return to the Moon* at the 2008 Kansas City Literary Festival Author Reception. This event was sponsored in part by the law firm of Sonnenschein Nath and Rosenthal LLP.

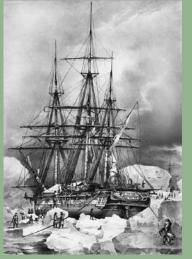
**Near left above:** Homer Hickam signs a copy of *Rocket Boys* for a young space enthusiast. The lecture was sponsored in part by the Ewing Marion Kauffman Foundation.

**Left below:** Bartlett Lecturer Robert Cava mingles with guests. The Bartlett Lecture Series is presented in association with the Harvard-Radcliffe, Princeton, and Yale alumni clubs of Kansas City.



#### ICE: A Victorian Romance

Curator: William B. Ashworth, Jr., History of Science Consultant



The Astrolabe from Voyage au Pole Sud et dans l'Océanie.

In May 2008, the Library opened *Ice: A Victorian Romance*, an exhibition documenting nineteenth-century voyages of discovery into the Arctic and Antarctic and the development of new scientific concepts brought about by these expeditions. In particular, the exhibition examined the search for the Northwest Passage and the first assault on the Antarctic continent by British, American and French explorers. Renowned Arctic historian David Stam, University Librarian Emeritus, Syracuse University, opened the exhibition with a lecture entitled *HMS Terror and Books on Ice*.

The exhibition featured early works on glacial studies, which around 1840, marked the beginning of the idea of an Ice Age. Also presented were books on the desperate search for Captain Sir John Franklin and the members of his ill-fated Arctic expedition, who disappeared in 1845.

"Ice: A Victorian Romance...helps establish a foundation of human experience and science to better understand what we hear today about melting glaciers, climate change, and the otherwise fragile poles." STEVE PAUL The Kansas City Star

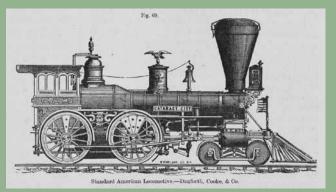
**Left above:** Detail of map of the polar region by Augustus Petermann, from Great Britain, Admiralty, *Further Correspondance and Proceedings*, 1852.

**Left below:** "Red Snow" along cliffs in Greenland, from John Ross, *A Voyage of Discovery*, 1819.

# PROGRAMS: EXHIBITIONS LOCOMOTION: Railroads in the Early Age of Steam

## LOCOMOTION: Railroads in the Early Age of Steam

Curator: Bruce Bradley, Librarian for the History of Science



Locomotive from D. K. Clark's Recent Practice in the Automotive Engine.

The development of the steam locomotive in the first part of the nineteenth century ushered in a dramatic and radical change in transportation technology. Beginning in the 1820s, and over the course of only a few decades, spiderlike networks of railroads slowly spread across the landscape. Railway networks permanently changed the land and the way people and goods traveled over it.

On October 2, 2008, Locomotion: Railroads in the Early Age of Steam opened with a lecture by Ian Kennedy, Curator of European Art at the Nelson-Atkins Museum of Art. *Locomotion* served as a companion to Kennedy's exhibition *Art in the Age of Steam*, appearing concurrently at the Nelson-Atkins Museum. The Library displayed a selection of rare books highlighting the evolution of steam engines, railway design and practice, and locomotive engineering, along with some of the major landmarks in the early history of railroads through the 1860s.

"Linda Hall's academic yet lively exhibitions are known for their broad accessibility. The scholars who curate these exhibitions understand the magic of historical books..." DANA SELF, The Pitch, Kansas City

Left above: "Royal Albert Bridge," from The Life of Isambard Kingdom Brunel, Civil Engineer, 1870. Left below: "Interior of a Mine in South Staffordshire," from A Series of Large Geological Diagrams, Illustrating and Describing the Principles of This Important and Practical Science, 1858.



# PROGRAMS

#### ASM Materials Camp for Teachers



Instructor Beth Eddy talks with a student in the Lab at the ASM Materials Camp for Teachers.

The Library's Mathematics, Engineering, Technology and Science Initiative for Teachers, a program funded by a grant from the Ewing Marion Kauffman Foundation, supported three projects during 2008. The Linda Hall Library held a Materials Camp for Teachers on June 16 to 20 under the auspices of ASM International. Twenty-seven teachers from eight states, with the majority from the greater Kansas City area, spent five days in the classroom and laboratory for hands-on training about low-cost, easy demonstrations of materials science concepts to add to their curriculum. The camp was co-hosted with the University of Missouri—Kansas City. Two additional Materials Camps supported with funding from the Kauffman Foundation are planned for 2009 and 2010.

The Star (Student and Teacher Area of Resources) Collection opened with a reception on February 23, 2008. Sybl Slaughter, a member of the Missouri Board of Education, delivered the keynote address, and April Ragland, a YouthFriends staff member, gave a presentation on externship and mentoring programs.

The Library held a Brunch & Learn lecture on November 15, 2008, with guest speaker Dr. Daryl Chubin from the American Academy of Arts & Sciences. Dr. Chubin initiated a dialogue on serving diversity in science education. Several of the participants arranged for networking and continued interaction beyond the event.

# "It gives me a whole new arsenal of activities and ideas to take back and teach the kids." MARY MONTAG, Materials Camp attendee

Far left above: Instructor Debbie Goodwin engages the class.

Near left above: Teachers are attentive students in the Materials Camp classroom.

**Left below:** Students carefully observing their results in the Lab.

Near left below: Instructor Beth Eddy demonstrates an experiment in the Lab.

#### **PROGRAMS**

COMPLETE LISTING: LECTURES & SPECIAL EVENTS

#### **LECTURES & SPECIAL EVENTS**

January 16
2008 Paul D. Bartlett, Sr. Lecture
From Cold Quicksilver to Levitating Trains: The History and
Promise of Superconductivity
Dr. Robert J. Cava, Princeton University

March 20

Altered States: Natural and Man-Made Changes in the Missouri, Mississippi and Meramec Rivers
Dr. Robert Criss, Washington University

April 24

Earthquakes, Tsunamis, and a Modern Journey to the Center of the Earth
Dr. Michael Wysession, Washington University

May 10

The Kansas Cities' Levees: Past, Present, and Future
Paul Barber, U.S. Army Corps of Engineers, Retired, and
Mr. John Grothaus, U.S. Army Corps of Engineers, Kansas
City District

May 16

Opening Authors Reception
Kansas City Literary Festival

September 25

The Robots are Coming! Getting People and Robots to Work
Together

Dr. Bill Smart, Washington University

October 23

Space Mission Failures: When Rocket Science, Politics and Human Nature Collide,

Dr. Michael Swartwout, Washington University

November 20

Cancer Therapy Using Nanoscience and Nuclear Processes,
Dr. Michael Lee, University of Missouri

#### **PROGRAMS**

COMPLETE LISTING: EXHIBITIONS & BOOK DISCUSSIONS

#### **EXHIBITIONS**

January 15-April 15

Connections featured rare book acquisitions from the past two years. Each new acquisition was "connected" to one or more books from the collection, to demonstrate relationships and reasons for the acquisition. Selected plates from Banks' Florilegium, the botanical results of Captain Cook's first voyage around the world, were displayed in the east exhibit gallery.

May 1-September 13

*Ice:* A Victorian Romance documented the nineteenth-century voyages of discovery into the Arctic and Antarctic, as well as the development of the scientific concept of an "Ice Age." An online version of *Ice* became available on the Library's web site in October.

October 2-March 20, 2009

Locomotion: Railroads in the Early Age of Steam traced the development of the steam locomotive in the early nineteenth century, and the construction of early railway networks and other innovative civil engineering projects.

#### **BOOK DISCUSSIONS**

#### One Book - Community Reading Program

- The Selfish Gene by Richard Dawkins
- The Silver Lining: The Benefits of Natural Disasters by Seth R. Rice

#### Periodic Roundtable Book - Reader Discussions

- Surely You're Joking, Mr. Feynman by Richard Feynman et al.
- Door in the Dream: Conversations with Eminent Women in Science by Elga Wasserman
- At the Water's Edge: Fish with Fingers, Whales with Legs, and How Life Came Ashore but Then Went Back to Sea by Carl Zimmer
- Hope Is the Thing with Feathers: A Personal Chronicle of Vanished Birds by Christopher Cokinos
- Beyond Oil: The View from Hubbert's Peak by Kenneth S. Deffeyes
- The Future of the Internet and How to Stop It by Jonathan L.Zittrain
- The Physics of NASCAR: How to Make Steel + Gas + Rubber = Speed by Diandra L. Leslie-Pelecky
- Rocket Boys: A Memoir by Homer H. Hickam, Jr.

#### Friends' Book-A-Night-Topical Discussions

- Engineering Matters
- Summer Blockbuster!
- The Scientific Search for Extraterrestrial Life

### DE the Comer Graps or Gran bottom with its sides turned up as to VG. BC is the under Bottom next the Fire I the flue to larry off the Smoath. K. the flue to larry off the fumer of the mater. COLLECTIONS M. the Pipe for Conveying water to Supply the Evaporation RECENT ACQUISITIONS BCD & EFGH are the two Chasts in which the Fixtons work. I re are the Grafe values which open downwoods to let Air into the Chests. S. to a long Pole into which are fastened Croft peices or Handles for the men to Sull at, ene end of which Gole w fastened by Chains to a Sector of a livede Lof three fire Radius, and to this Sector is Joyn'd another Sector M. of Six feet Radius both moveing Round the Center Ning that when the men pull the pole K, the Sector M will depres the Stom O of the Fisten DC to which stem is fastmed with Chains likewise another Sater Pof equal Radius but placed at Right Angles to the Sexor Mathe Sexter Plane likewise depress will Raise another Sector Q of the same Radius and with it the Stem R. of the Fisten X.Y. they moving On the Center S in the same manner as DT va Lgras Jule thro which the the Festers L.M. do upon the Center N.Se that when the Pieten DC is dir is ferrid out of di hart into the Sea. The Chart EFGH has it Sube likewise depres t EF will be Rained river were and so they strike their Sweker alternately for the same Propose.

## Recent Acquistions to the History of Science Collection



"Beagle laid ashore" from Robert Fitzroy's Narrative of the Surveying Voyages of His Majesty's Ships Adventure and Beagle.

From its opening in 1946, the Linda Hall Library has housed impressive resources for study in the history of science and technology. Today the History of Science Collection includes a world-renowned collection containing over 10,000 printed books from the fifteenth century to the present. In 2008, the Library acquired a major work by Charles Darwin lacking from the collection, the first edition of his *Voyage of the Beagle*. The voyage was commanded by Robert Fitzroy, who was instructed to survey the coast of South America. Darwin's own narrative of the journey is included in the four-volume set containing Fitzroy's account of the entire voyage. The copy acquired by the Library is an "association copy," having been signed by Fitzroy and presented as a gift to an associate.

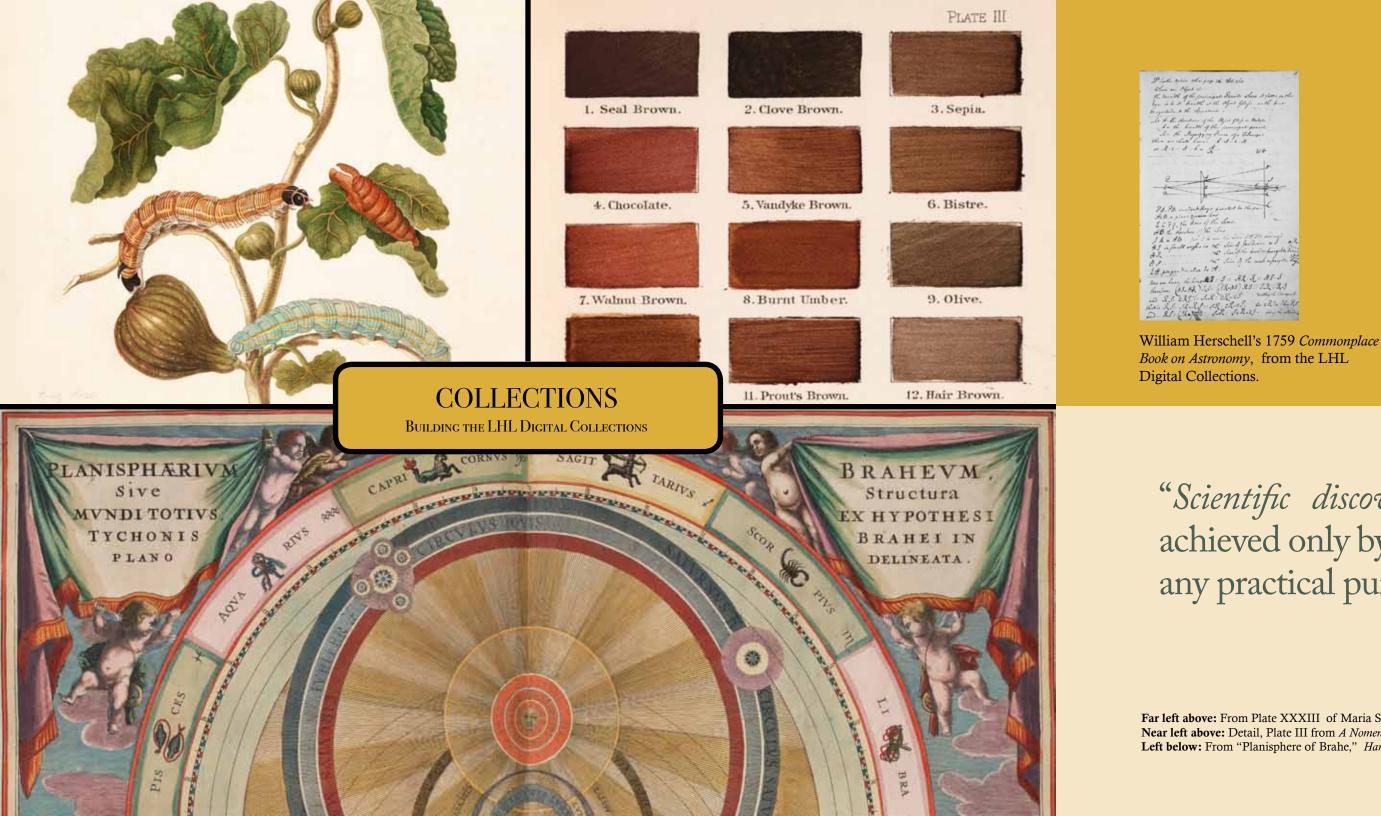
Other significant acquisitions include a focused collection of variant editions of Gilbert White's *The Natural History of Selborne; Optica Philosophia Experimentis* ..., containing Nicolo Zucchi's description of the construction of his reflecting telescopes; and a first edition of the 1686 *Coelum Poëticum, seu, Sphaera Astronomica*, a scarce work about the constellations, illustrated with a superb plate consisting of twelve segments for the construction of a celestial globe.

"The voyage of the Beagle has been by far the most important event in my life and has determined my whole career." CHARLES R. DARWIN

Far left above: Missel-thrush from Gilbert White's The Natural History of Selborne, 1843.

Far left below: From the frontispiece of Optica Philosophia Experimentis ..., 1652 by Nicolò Zucchi.

Near left: Plate from Specimina Ichnographica, 1730, John Allen, M.D.



# Building the LHL Digital Collections

The LHL Digital Collections were launched in March 2008, opening a door to the Linda Hall Library for users worldwide. Built on a CONTENTdm database, the Digital Collections are structured around subject areas, thereby creating critical masses of content and demonstrating the extraordinary breadth and depth of the Library's holdings.

By the end of the year, access to the largest online collection of Star Atlases, hand-colored plates in Maria Merian's Metamorphosis Insectorum Surinamensium (1705), rarities such as Georg Joachim Rheticus's seminal Narratio Prima (1540), and the first edition of Galileo Galilei's Sidereus Nuncius Magna (1610) were a mouse click away for anyone with an Internet connection.

The LHL Digital Collections are a work-in-progress with new material added daily. The LHL Digital Collections, freely accessible online, offer scholars and lifelong learners a growing resource for research and personal use.

"Scientific discovery and scientific knowledge have been achieved only by those who have gone in pursuit of it without any practical purpose whatsoever in view."

Far left above: From Plate XXXIII of Maria Sibylla Merian's 1705 Metamorphosis of the Insects of Surinam. Near left above: Detail, Plate III from A Nomenclature of Colors for Naturalists, Robert Ridgway, 1886. Left below: From "Planisphere of Brahe," Harmonia Macrocosmica, Andreas Cellarius, 1661

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# GIFTS: The William N. Deramus III Cosmology Theater



Sarah and Landon Rowland attend the opening of the William N. Deramus III Cosmology Theater.

In 2010, the Hubble Space Telescope will enter its twentieth year of service. Following its fourth and final repair mission in 2009, Hubble will continue delivering stunning images of the cosmos well into the next decade. Hubble's latest discoveries may be viewed in the Linda Hall Library's William N. Deramus III Cosmology Theater.

The grand opening of the Deramus Theater was held in November to honor Mr. Deramus and Cosmology Theater donors Landon and Sarah Rowland. The Deramus Theater features ViewSpace, an internet-fed, self-updating, permanent exhibit from the Space Telescope Science Institute, the science and operations center for Hubble. ViewSpace presents a series of educational features on topics related to space and space-based research on a 114-inch display screen with a high definition projection system. Regular coverage is given to the latest discoveries made with Hubble and other astronomical resources from around and above the world.

The Deramus Theater is the focal point of the newly remodeled History of Science Corridor which extends from the exhibition galleries to the Rare Book Room. The Corridor features four dramatic murals: the "Sombrero" and "Pinwheel" galaxy images taken by the Hubble Space Telescope, and images of Bode's "Virgo" constellation and La Hire's "Southern Planisphere" from the Library's collection of star atlases.

"...we are reaching into space, farther and farther, until, with the faintest nebulae that can be detected with the greatest telescopes, we arrive at the frontier of the known universe."

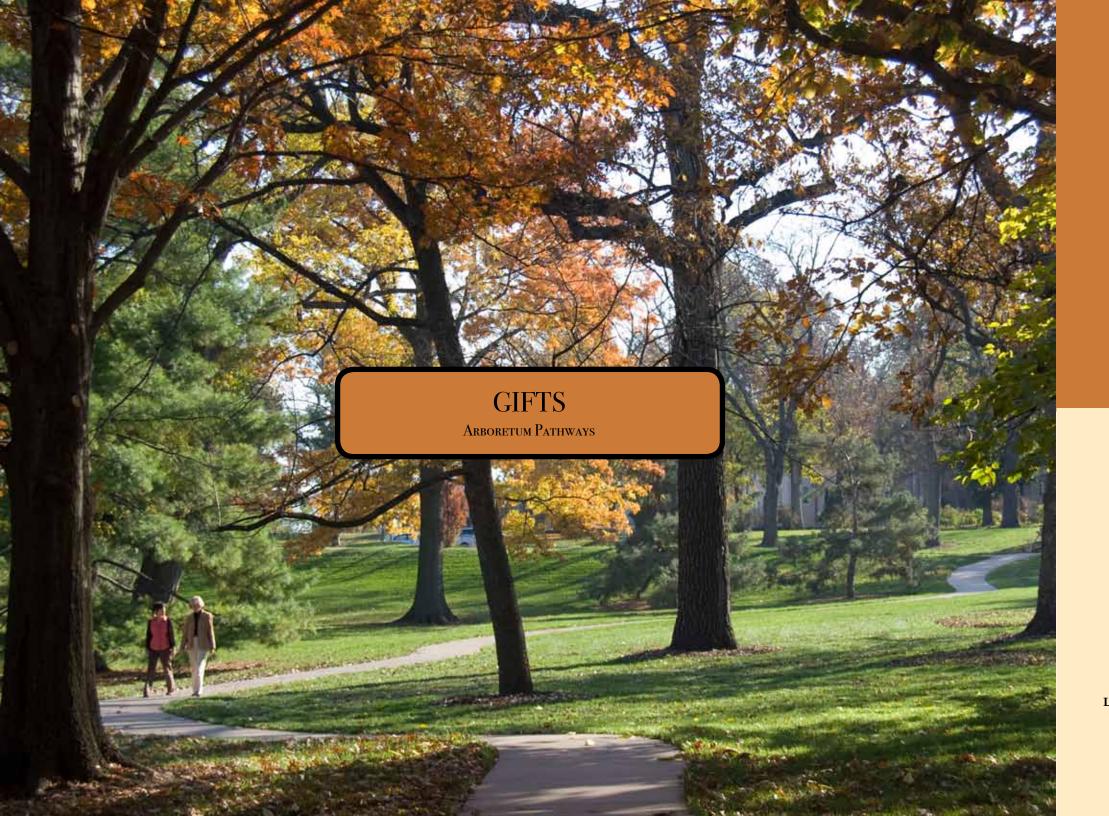
EDWIN HUBBLE

Far left above: M82 Starburst image from the Hubble Telescope.

Near left above: Closer to Earth, the Hubble relayed an image of Jupiter.

Left below: A proceeding the enterpret to The William N. December: The William N. December: The Complexity Theory of the Complexity

**Left below:** Approaching the entrance to The William N. Deramus III Cosmology Theater.





The Arboretum pathway.

# GIFTS: The Arboretum Pathways

The tradition of an urban arboretum was established in the early 1900s when Linda and Herbert Hall landscaped the property around their new house. Their tradition of thoughtful conservation and planting was embraced and carried to the present by subsequent Trustees and staff of the Library.

Through a generous gift from the Sunderland Foundation, new pathways installed in the north and south lawns provide easy accessibility to the Library's verdant grounds for the aesthetic and educational enrichment of our community. It is hoped that today's visitor to the arboretum and gardens will experience the same solace and inspiration enjoyed by Mr. and Mrs. Hall when this was their home.

"I have met with but one or two persons in the course of my life who understood the art of Walking, that is, of taking walks - who had a genius, so to speak, for sauntering."

HENRY DAVID THOREAU

Left: Walking on the Library grounds in the Autumn

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# "We make a living by what we get, but we make a life by what we give." winston churchill

Every effort has been made to ensure the accuracy of this list. Please accept our sincere apologies for any errors or omissions. Contact Kimberly Allen, Development Director, at 816-926-8792 for corrections.

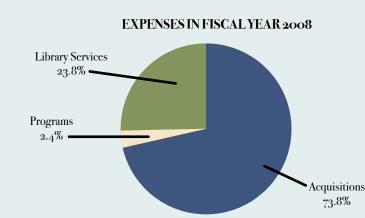


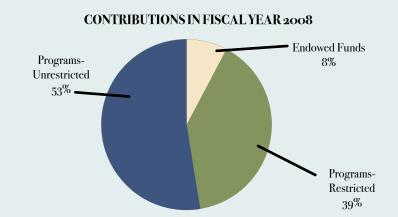
# RESOURCE ALLOCATION AN OVERVIEW



The foundation of the Linda Hall Library's reputation in the scientific research community derives from the breadth and depth of its collections. Through careful stewardship of its financial resources, the Library continues to maintain rich and varied collections. The Library's commitment to exceptional service is another source of its significance to users around the world.

The collections have also been used in support of the Library's public programming efforts. Historically, the primary thrust of these programs has been the dissemination of knowledge to the region's scientists and engineers. Through its public lectures, special programs, and exhibitions of rare books, the Library enriches the intellectual life of the community. With support from outside donors, the Linda Hall Library continues to expand its programs as it endeavors to become the "go to" place for all science-minded people in Kansas City.





**Far left above:** Servers deliver information to users around the world. **Near left above:** A selection of Atlases in the Main Reading Room. **Left below:** View from the balcony in the Library's Reading Room.



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"Among librarians I have yet to find a surly or unhelpful individual: I think librarians will inherit the earth." WALLACE STEGNER

Left: Staff at work throughout the Library and its Grounds.

#### A LOOK AHEAD

EVENTS IN 2009

#### Linda Hall Library Climate Change Symposium October 16, 2009, 8 a.m. - 4:30 p.m.



Symposium Moderator Neil deGrasse Tyson



climate.lindahall.org

#### FEATURED SPEAKERS

## THOMAS E. LOVEJOY Heinz Center for Science, Economics, and the Environment

JAMES RODGER FLEMING

Colby College

JOHANNES FEDDEMA
University of Kansas

GAVIN SCHMIDT

NASA Goddard Institute for Space Sciences

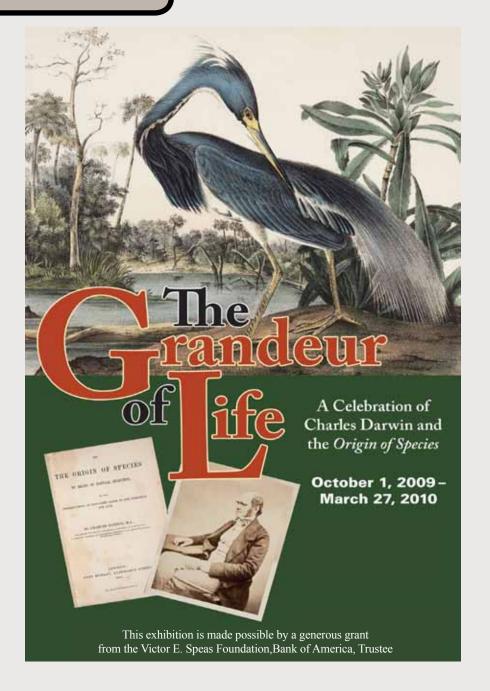
RICHARD LINDZEN

Massachusetts Institute of Technology

ROBERT MENDELSOHN
Yale University

DAVID FOSTER Harvard Forest

This symposium is underwritten by a generous grant from the Enid and Crosby Kemper Foundation, UMB Bank, n.a. Trustee.



#### **AFTERWORD**



The Tazza serves as an iconic focal point in the Library's Main Reading Room.

Why an electronic publication? This is the first year that the Linda Hall Library's Annual Report is available in an electronic-only version. The electronic Annual Report will eliminate printing and mailing costs as well as be environmentally friendly by eliminating the use of paper and ink. The Annual Report is available on the Linda Hall Library's web site and copies are distributed via email. We also hope that the electronic Annual Report on our website will increase visibility of and interest in the Library throughout the world.

The colors used in this Annual Report are based on Robert Ridgway's A Nomenclature of Colors for Naturalists published in 1886. Ridgway served as Curator of Birds at the Smithsonian Institution's National Museum of Natural History from 1880 until his death in 1929. He developed an interest in colors at an early age and spent his life in pursuit of color standards. Ridgway published a second, expanded edition in 1912 titled Color Standards and Color Nomenclature. Although the latter edition includes hundreds of additional colors, we chose the original Nomenclature because of its aesthetic qualities. Both books are available in the Library's History of Science Collection and online in LHL Digital Collections.

# "If you have a garden and a library, you have everything you need." cicero

As we prepare the Annual Report for 2008, we are saddened by the death of Library Trustee Lathrop M. Gates. Mr. Gates served as a Trustee of the Linda Hall Library since 2005. His wise counsel, astute leadership, and devotion to the Library will be missed.

