Our mission is to document, interpret, and disseminate information about invention and innovation, to encourage inventive creativity in young people, and to foster an appreciation for the central role that invention and innovation play in the history of the United States.
Art's Message

The Lemelson Center’s home base in the National Museum of American History changed dramatically in 2012. While we celebrated the opening of our new office suite, we also experienced the closure of the Lemelson Hall of Invention and Spark!Lab for the Museum’s renovation until 2015. To keep the Center’s programs vibrant during this time, we expanded our outreach efforts across the country, around the globe, and into cyberspace.

We brought Spark!Lab to Kyiv, Ukraine, and served more than three times the visitors we expected—including Ukraine’s former first family and a soccer star. We presented our research on the history of invention and discussed our work in STEAM (science, technology, engineering, art, and math) and 21st Century Skills at international conferences from Denmark to Spain to South Korea.

Closer to home, we kick-started the Places of Invention Affiliate Pilot Project, working with Smithsonian Affiliate museum representatives and their community partners to begin local documentation projects that will be a new model for collaborative co-creation of exhibition content. Places of Invention curators traveled to Hartford, CT, Minneapolis, MN, and Fort Collins, CO, for research, networking, and cultural immersion in places that will be featured in the exhibition.

Finally, we promoted public understanding of invention and innovation from accessible, interdisciplinary perspectives through a variety of media. Our Political Machines symposium was broadcast by C-SPAN. The Color Revolution, the latest volume in our series with MIT Press, hit book vendors worldwide. We launched our new blog, Bright Ideas. And we completed strategic planning for the complete redesign of our web presence in 2013.

It has been a year of reflection, groundwork, and experimentation. We are proud to share last year’s accomplishments with you, and we are excited to offer a glimpse of what 2013 holds.

Arthur Molella
Jerome and Dorothy Lemelson Director

Office Dedication

In April, the Lemelson Center hosted Dorothy Lemelson and Smithsonian Secretary Wayne Clough, as well as other members of the Lemelson Foundation and Smithsonian leadership team, at a special event dedicating the new Lemelson Center office space—the first permanent Center space at the National Museum of American History.

This also marks the first time all Lemelson team members have been housed in the same area. The proximity, along with the flexibility built into the office complex, encourages collaboration, informal meetings, and open communication, altogether allowing the Lemelson Center to be a hot spot of innovation.

Arthur Molella
Jerome and Dorothy Lemelson Director

In April, the Lemelson Center hosted Dorothy Lemelson and Smithsonian Secretary Wayne Clough, as well as other members of the Lemelson Foundation and Smithsonian leadership team, at a special event dedicating the new Lemelson Center office space—the first permanent Center space at the National Museum of American History.

This also marks the first time all Lemelson team members have been housed in the same area. The proximity, along with the flexibility built into the office complex, encourages collaboration, informal meetings, and open communication, altogether allowing the Lemelson Center to be a hot spot of innovation.
The Lemelson Center is collaborating with design firm Roto Group to create Places of Invention, an interactive exhibition that inspires a sense of discovery while exploring characteristics of innovative communities. Places of Invention takes visitors on a journey through time and place to discover the stories of people who lived, worked, played, collaborated, adapted, took risks, solved problems, and sometimes failed—all in the pursuit of something new.

The Places of Invention exhibition features six communities representing an interesting and surprising mix of people, places, time periods, and technologies:

- **Precision manufacturing in Hartford, CT, late 1800s:** A factory town puts the pieces together in explosive new ways.
- **Technicolor in Hollywood, CA, 1930s:** A young town gives birth to the movies’ “Golden Age.”
- **Medical innovations in Medical Alley, MN, 1950s:** A tight-knit community of tinkerers keeps hearts ticking.
- **Hip-hop’s birth in the Bronx, NY, 1970s:** A neglected neighborhood creates music you can’t ignore.
- **The rise of the personal computer in Silicon Valley, CA, 1970s–1980s:** Suburban garages bring computing from the lab to the living room.
- **Clean-energy innovations in Fort Collins, CO, 2010s:** Town and gown combine their energy for a greener planet.

Using treasured objects from the nation’s past in conjunction with dynamic media and interactives, each case study will show how a critical mass of people, resources, and institutions coalesced in six very different communities to spark a series of innovations.

Places of Invention will open in the Jerome and Dorothy Lemelson Hall of Invention in 2015 following renovations to the Museum’s west exhibition wing. Places of Invention is under development thanks in part to a generous grant from the National Science Foundation.
The Lemelson Center offers the Staff Projects Initiative, which provides small, internal grants to staff at the National Museum of American History and across the Smithsonian in support of projects that broaden public understanding of invention and innovation, while fostering enhanced collaboration between the Center and our Museum colleagues.

Past grants have supported research and collecting trips, exhibition development, educational and public programs, and web projects. In 2012, grants were awarded to:

- **Create: Smithsonian—Workshops for Smithsonian Staff Focused on Creativity and Innovation** Susan Evans, daily programs coordinator, and Amy Bartow-Melia, director, Department of Public Programming, NMAH

- **Modernized Stretchers for Paintings on Canvas** Jia-Sun Tsang, senior paintings conservator, and Ines Madruga, intern paintings conservator, Museum Conservation Institute, study the painting stretcher, invented via a Lemelson Center Staff Projects grant

- **Collecting Trip to Fort Collins, CO, in Support of the Places of Invention Exhibition** Hal Wallace, associate curator, Division of Work and Industry, NMAH

- **The Seismic Instruments of Vela-Uniform** Deborah Warner, curator, Division of Medicine and Science, NMAH

The Lemelson Center plans to recruit up to 20 additional Affiliate museums in the near future. Places of Invention Affiliate museums and their community partners include:

- **American Museum of Science and Energy** Oak Ridge, TN 2011
  - Oak Ridge Associated Universities
- **American Textile History Museum** Lowell, MA 2012
  - Lowell Telecommunications Corporation
- **Peoria Riverfront Museum** Peoria, IL 2012
  - USDA–NCAUR
- **Museum of History and Industry** Seattle, WA 2011
  - 20after1
- **Senator John Heinz History Center** Pittsburgh, PA 2012
  - Young Preservationists Association of Pittsburgh
- **The Works: Ohio Center for History, Art, and Technology** Newark, OH 2012
  - Owens Corning

**Places of Invention Affiliates Pilot Project**

The Affiliates Pilot Project brings together six Smithsonian Affiliate museums and their community partners to research and document innovation in their places of invention. This groundbreaking program is part of the Museum’s “Taking It to the Nation” initiative, which strives to bring the Museum to the hometown and doorstep of every American. With Lemelson Center guidance, Affiliate teams are using documentation techniques—oral histories, audio podcasts, and pictorial montages—to create videos highlighting specific innovations in their places of invention. These brief videos will become an integral part of an interactive map experience in the Places of Invention exhibition and website. Related public programming will take place at each Affiliate location.

The Lemelson Center officially kicked off the pilot project in June with a workshop on documenting local history by public historian Lorraine McConaghy from Seattle’s Museum of History and Industry. Representatives from each team participated, as did Smithsonian Affiliations staff and the project’s National Science Foundation program officer.

Dr. Lorraine McConaghy leads the POI Affiliate teams in a workshop on documenting local history. Photo by Kate Wiley.

Photo by Susan Evans.

Smithsonian staff members discuss the ideas of constraints and collaboration at a Create: Smithsonian event. Smithsonian photo.

Jia-Sun Tsang, senior paintings conservator, and Ines Madruga, intern paintings conservator, Museum Conservation Institute, study the painting stretcher, invented via a Lemelson Center Staff Projects grant. Smithsonian photo by Donald E. Hurbert.

Dr. Lorraine McConaghy leads the POI Affiliate teams in a workshop on documenting local history. Photo by Kate Wiley.

Jia-Sun Tsang, senior paintings conservator, and Ines Madruga, intern paintings conservator, Museum Conservation Institute, study the painting stretcher, invented via a Lemelson Center Staff Projects grant. Smithsonian photo by Donald E. Hurbert.

The Center hosted a group of external advisors for a creativity roundtable. Photo by Kate Wiley.
Spark!Lab reveals the stories behind inventors’ work through hands-on activities that help kids and families learn about the history and process of invention. Infused with historical content, Spark!Lab’s interdisciplinary projects appeal to varied learning styles, ages, and abilities. The first installation, open between November 21, 2008, and October 6, 2011, welcomed more than 600,000 visitors. A revamped Spark!Lab will open in 2015 with the Museum’s west exhibition wing. While the physical space is closed, staff, interns, and volunteers are keeping Spark!Lab vibrant through a cart program featuring popular activities; last year, it served 24,346 visitors.

Throughout 2012, the Center continued to develop and test activity ideas for the new Spark!Lab. In November, we hosted a small group of external advisors for a creativity roundtable. The group discussed how we can foster the conditions that allow for innovation and innovative thinking and the mechanisms that allow people to think creatively.

A revamped Spark!Lab will open in 2015 with the Museum’s west exhibition wing. While the physical space is closed, staff, interns, and volunteers are keeping Spark!Lab vibrant through a cart program featuring popular activities; last year, it served 24,346 visitors.

Spark!Lab Network
The success of the Spark!Lab philosophy is clear in the increasing interest in replicating it in other parts of the United States and abroad. The first satellite Spark!Lab off the National Mall opened at the Terry Lee Wells Nevada Discovery Museum in Reno, and the Outreach Kit Project has brought our activities and philosophy to six museums around the country.

This past year focused on the planning and implementation of the first international Spark!Lab—a temporary installation in Kyiv, Ukraine, in September. Working with in-country representatives, Lemelson Center staff trained local staff to facilitate the Spark!Lab experience and provided professional development on 21st Century Skills and the role of informal education and evaluation.

Spark!Lab activities are both visitor-driven and facilitated. Left, Smithsonian photo by Rich Strauss. Above, Photo by Kate Wiley.

THE TEMPORARY SPARK!LAB OPENED AT ART ARSENALE, A CONTEMPORARY ART MUSEUM IN KYIV, AND QUICKLY SURPASSED EXPECTATIONS. SPARK!LAB RECEIVED 32,141 VISITORS, THREE TIMES THE NUMBER WE EXPECTED.


SPARK!LAB AND OTHER LEMELSON CENTER PROGRAMS AIMED AT YOUNG PEOPLE IMMERSE THEM IN THE PROCESS OF INVENTION, INVITING THEM TO SEE THEMSELVES AS INVENTIVE, AND INSPIRING A NEW GENERATION OF AMERICAN INVENTORS AND INNOVATORS.
Public Programs

- Inaugural ePals Invent It! Challenge, November 2011–January 2012
- Kite JAM at Jazz Appreciation Month, April
- Cambridge Science Festival, April
- USA Science & Engineering Festival, April
- ION Mini-Urban Challenge, May
- Staff Picnic at the Smithsonian Folklife Festival, July
- Portrait of Invention, September
- Smithsonian Teachers’ Night, October
- Second Annual ePals Invent It! Challenge, October 2012–February 2013

During the ION Mini-Urban Challenge, teams of high school students designed and operated an autonomous “car” using a LEGO Mindstorms Kit to successfully navigate through a mini city.

Photos by Monica Smith.

Left. During Kite JAM, a hands-on kite-making activity was followed by a kite ballet to the music of JAM 2012 poster artist, Frank Sinatra. Smithsonian photo by Rich Strauss.

Below. Students create prototype robots at a Spark!Lab workshop with the Smithsonian’s Discovery Theater. Photos by Kate Wiley.

Smithsonian Teachers’ Night attendees tried out Spark!Lab activities. Photo by Michelle DeCursi.

Lemelson staff brought nanotechnology activities to the USA Science & Engineering Festival with Draper Laboratory. Photos by Kate Wiley.
The latest book in the Lemelson Center Studies in Invention and Innovation series with MIT Press, *The Color Revolution*, was published in September. Former National Museum of American History Curator and Lemelson Fellow Regina Lee Blaszczyk traces the relationship of color and commerce—from haute couture to automobile showrooms to interior design—and highlights the often unrecognized role of the color professional in consumer culture.

The book sold more than 2,000 copies in its first months of publication and quickly went into a second printing. To celebrate the book's publication, the Center hosted a Portrait of Invention event where Blaszczyk led a conversation with fashion designers Jeffrey Costello and Robert Tagliapietra, two of today's "color intermediaries" helping to move new color technologies from the laboratory to the runway. Playing with the tension between fabric, drape, and silhouette, the house of Costello Tagliapietra has brought its elegant and timeless vision to the marketplace while pioneering the use of AirDye, an environmentally friendly textile-dyeing process.

Annual Symposium: Political Machines

The Lemelson Center marked the election year by presenting Political Machines: Innovations in Campaigns and Elections. This 2012 New Perspectives on Invention and Innovation symposium examined the role of invention and technology in electoral politics.

Political Machines shifted the focus away from the candidates and issues to examine the critical role that "political machinery," such as campaign advertisements, voting machines, and automated opinion polls, play in our democracy.

Speakers included experts from the Brookings Institution, the Washington Post, the Pew Center on the States, and the 2004 Dean for America campaign, among others, and employed formats typically seen on the campaign trail, including a keynote address, stump speeches, and interactive "town hall" Q&A sessions. Audience members also were able to vote on questions posed during the symposium, using a handheld audience-response system.

Annual Symposium: Political Machines

The Lemelson Center marked the election year by presenting Political Machines: Innovations in Campaigns and Elections. This 2012 New Perspectives on Invention and Innovation symposium examined the role of invention and technology in electoral politics.

Political Machines shifted the focus away from the candidates and issues to examine the critical role that "political machinery," such as campaign advertisements, voting machines, and automated opinion polls, play in our democracy.

Speakers included experts from the Brookings Institution, the Washington Post, the Pew Center on the States, and the 2004 Dean for America campaign, among others, and employed formats typically seen on the campaign trail, including a keynote address, stump speeches, and interactive "town hall" Q&A sessions. Audience members also were able to vote on questions posed during the symposium, using a handheld audience-response system.

Annual Symposium: Political Machines

The Lemelson Center marked the election year by presenting Political Machines: Innovations in Campaigns and Elections. This 2012 New Perspectives on Invention and Innovation symposium examined the role of invention and technology in electoral politics.

Political Machines shifted the focus away from the candidates and issues to examine the critical role that "political machinery," such as campaign advertisements, voting machines, and automated opinion polls, play in our democracy.

Speakers included experts from the Brookings Institution, the Washington Post, the Pew Center on the States, and the 2004 Dean for America campaign, among others, and employed formats typically seen on the campaign trail, including a keynote address, stump speeches, and interactive "town hall" Q&A sessions. Audience members also were able to vote on questions posed during the symposium, using a handheld audience-response system.
Research and Training Opportunities

The Lemelson Center supports the scholarly work of historians and archivists through fellowship and travel-to-collections award programs. Lemelson fellows in residence in 2012:

- **Aimi Hamraie**, Ph.D. candidate, Emory University, explored issues related to Universal Design and disability.
- **Matthew Hockenberry**, Ph.D. candidate, New York University, examined the global supply chains used in the manufacturing of telegraph and telephone technologies from about 1876 to 1926.
- **Hallie Lieberman**, Ph.D. candidate, University of Wisconsin-Madison, explored the technological history of sexual aids.
- **Dr. Steven Wilf**, professor and associate dean, University of Connecticut Law School, examined runs of invention-oriented periodicals and IP documentation in several of the Museum’s collections.

The travel-to-collections award provides travel funds for research on the history of invention and innovation using the extensive holdings of the Museum’s Archives Center and curatorial divisions. In 2012, award winners in residence included:

- **Alejandra Bronfman**, University of British Columbia, who examined the history of the implementation of telecommunications technologies in the Caribbean and the unwritten histories of radio and related sonic technologies.
- **Aimi Hamraie**, Emory University, who explored issues related to Universal Design and disability.
- **Kara Schlichting**, Rutgers University, who worked on a new interpretation of the 1939–1940 New York World’s Fair as an exhibition of design and planning efforts that claimed to soothe concerns about urban environment with planning, architecture, and technological innovations designed for suburban living.
- **Peter Scott**, University of Reading, who used the George H. Clark Radioana Collection to study the innovation, productivity, and industrial structure in the U.S. radio-equipment industry from 1920 to 1941.
- **Paige Welch**, Duke University, who examined records related to the 1997 exhibit *Oil from the Arctic* for her work on the Trans-Alaska Pipeline and the 1970s frontier.
Online Communications

In June, the Center launched its own blog, Bright Ideas, featuring contributions from every member of the team on topics ranging from football helmet technologies to the development of Places of Invention to hunting for Spark!Lab materials in Ukraine. In 2012, News Blast continued to deliver timely updates on the Center’s activities to inboxes around the globe while Prototype dispensed original, in-depth invention content; and Inventive Voices, our podcast series, continued investigation into invention and innovation themes.

The Center continues to build a following on social media and to contribute to the Museum’s O Say Can You See? blog. “The Italian Soul of Steve Jobs” was the third most-viewed post there in 2012.

Web Planning

In April, the Lemelson Center began working with Ohio-based firm R/P Marketing Public Relations on the development of a strategic visioning plan in anticipation of our new website. The result was a strategic website planning brief that clarifies and prioritizes our current and potential audiences, provides initial recommendations on the purpose of our web presence, and outlines three options for the planning and structure of our future website.

The complete web-visioning plan provides the strategic roadmap for a contracted web developer to build a site that best represents our work and connects with our primary audiences. The development of the Center’s new website will begin in 2013.
Collaborations

The Lemelson Center appreciates that collaboration, sharing of ideas and viewpoints, flexibility, and risk taking are essential components of any innovative endeavor. As such, the Center values and seeks out meaningful collaborations and has an extensive track record of working with an array of partners across a broad spectrum of disciplines to create successful programs.

Looking Ahead

Following a busy and fulfilling 2012, the Lemelson Center charges into 2013 with a full program of exciting activities. In addition to continuing to develop a dynamic presence for the west exhibition wing reopening, we will uphold a vibrant presence on and off the National Mall through the following activities:

• Conducting formative evaluation and prototyping with Museum visitors for the Places of Invention exhibition
• Expanding the Spark!Lab National Network
• Hosting Innoskate, a major public festival that will celebrate invention and creativity in skateboarding and skate culture
• Facilitating Affiliate Pilot Project work throughout the country and recruiting up to 20 more teams to document innovation in their communities

20after1
American Museum of Science and Energy
American Textile History Museum
Art Arsenale
Association of Children’s Museums
Draper Laboratory
ePals
Institute of Navigation
Jazz Appreciation Month
Lemelson Foundation
Lemelson-MIT Program
Lowell Telecommunications Corporation

The MIT Press
Museum of History and Industry
National Collegiate Inventors and Innovators Alliance
National Museum of American History
American Enterprise exhibition team
National Museum of American History Archives Center
National Museum of American History Congress of Scholars
National Museum of American History Office of Curatorial Affairs
National Museum of American History Office of Education and Public Programs
National Museum of American History Office of External Affairs
National Science Foundation
Oak Ridge Associated Universities
Owens Corning
Peoria Riverfront Museum
Randi Korn & Associates, Inc.
Roto Group LLC
R/P Marketing Public Relations
ScienceWorks Museum
Senator John Heinz History Center
Smithsonian Affiliations
Smithsonian Center for Education and Museum Studies
Smithsonian Congress of Scholars
Smithsonian Folklife Festival
Smithsonian Office of Policy and Analysis
Smithsonian Women’s Committee
Terry Lee Wells Nevada Discovery Museum
The Works: Ohio Center for History, Art, and Technology
U.S. Department of State
USA Science & Engineering Festival
USDA-NCAUR
Young Preservationist Association of Pittsburgh
The Lemelson Center for the Study of Invention and Innovation is supported by the Lemelson Foundation, a private philanthropy established by one of the country’s most prolific inventors, Jerome Lemelson, and his family. Founded in 1992, the Lemelson Foundation works to inspire and enable the next generation of inventors and invention-based enterprises in order to build a stronger U.S. economy and create social and economic change for the poor in developing countries. For more information, visit lemelson.org

Lemelson Center Team 2012

Arthur Mulella, Jerome and Dorothy Lemelson Director
Joyce Bedi, Senior Historian
Jeffrey Brodie, Deputy Director
Michelle DaCarlo, Spark!Lab National Network Coordinator
Tricia Edwards, Education Specialist
Laurel Fritzsch, Interpretive Specialist
Christopher White, Facilitator

Kate Willey, Public Affairs Specialist
Michelle Ajavi, Spark!Lab Intern
Dean Micallef, Spark!Lab Intern
Kevin Borow, Video Intern
Duyan Cephas, Spark!Lab Intern
Santiago Martinez, Spark!Lab Intern
Joel Polovitz, Places of Invention Intern
Curlee Walker, Spark!Lab Intern

More than 20 volunteers assisted with Spark!Lab art programs, special events, and other public programs.

Lemelson Center 2012 Advisory Committee

BP Agraval, Founder and President, Sustainable Innovations

Deborah A. Richardson, Chair, Division of Work and Industry, National Museum of American History

Paul Theerman, Head of Images and Archives, National Library of Medicine

Dorothy, Eric, and Robert Lemelson, honorary members

Lemelson Center 2012 Places of Invention Advisory Committee

Leslie Berlin, Project Historian, Silicon Valley Archives, Stanford University

Paul Israel, Director and General Editor, Thomas A. Edison Papers, Rutgers University

Gretchen Jennings, Editor, The Exhibitionist

John Kenny, Former Chief Operating Officer and Co-founder, E-Luminate Group

Stuart W. Leslie, Professor, Department of History of Science and Technology, Johns Hopkins University

Deborah A. Richardson, Chair, Archives Center, National Museum of American History

James Schreiber, Professor of Education, Duquesne University

Chad Lindsey, Executive Director, ScienceWorks

Lorraine McConaghy, Historian, Seattle’s Museum of History and Industry

Hooley McLaughlin, Chief Science Officer and Vice President, Science Experience, Ontario Science Centre

Wendy Pollock, Independent Consultant

Kate Roberts, Senior Exhibit Developer, Minnesota Historical Society

Tom Simons, Director of Education and Public Programs, Omaha Children’s Museum

Jim Spadacini, Director and Founder, EDEUM

Heather Toomey Zimmerman, Assistant Professor of Education, Department of Learning and Performance Systems, Pennsylvania State University

Lemelson Center Visiting Committee

Ruth Schwartz Cowan, Jonice and Julian Bens Professor, University of Pennsylvania

Daryl M. Hafter, Professor of History (Emerita), Eastern Michigan University

David J. Rhees, Executive Director, Bakken Library and Museum

Helin W. Samuels, Institute Archivist (Emerita), Massachusetts Institute of Technology

Jeffrey L. Sturchio, President and CEO, Global Health Council

Janice and Julian Bers Professor,

Visiting Committee, Lemelson Center

Dwight Blocker Bowers, Curator, Culture and the Arts, National Museum of American History

Anna Karvellas, Places of Invention Affiliates Project Coordinator

Steve Madewell, Interpretive Exhibits Coordinator

Alison Oswald, Archivist

William Reynolds, Administrative Support Specialist

Matt Ringelstetter, New Media Assistant

Monica Smith, Exhibition Program Manager

Christopher White, Lead Gallery Facilitator

Kate Willey, Public Affairs Specialist

Michelle Ajavi, Spark!Lab Intern

Dean Micallef, Spark!Lab Intern

Kevin Borow, Video Intern

Duyan Cephas, Spark!Lab Intern

Santiago Martinez, Spark!Lab Intern

Joel Polovitz, Places of Invention Intern

Curlee Walker, Spark!Lab Intern

More than 20 volunteers assisted with Spark!Lab art programs, special events, and other public programs.

Lemelson Center 2012 Advisory Committee

BP Agraval, Founder and President, Sustainable Innovations

Deborah A. Richardson, Chair, Division of Work and Industry, National Museum of American History

Paul Theerman, Head of Images and Archives, National Library of Medicine

Dorothy, Eric, and Robert Lemelson, honorary members

Lemelson Center 2012 Places of Invention Advisory Committee

Leslie Berlin, Project Historian, Silicon Valley Archives, Stanford University

Paul Israel, Director and General Editor, Thomas A. Edison Papers, Rutgers University

Gretchen Jennings, Editor, The Exhibitionist

John Kenny, Former Chief Operating Officer and Co-founder, E-Luminate Group

Stuart W. Leslie, Professor, Department of History of Science and Technology, Johns Hopkins University

Deborah A. Richardson, Chair, Archives Center, National Museum of American History

James Schreiber, Professor of Education, Duquesne University

Chad Lindsey, Executive Director, ScienceWorks

Lorraine McConaghy, Historian, Seattle’s Museum of History and Industry

Hooley McLaughlin, Chief Science Officer and Vice President, Science Experience, Ontario Science Centre

Wendy Pollock, Independent Consultant

Kate Roberts, Senior Exhibit Developer, Minnesota Historical Society

Tom Simons, Director of Education and Public Programs, Omaha Children’s Museum

Jim Spadacini, Director and Founder, EDEUM

Heather Toomey Zimmerman, Assistant Professor of Education, Department of Learning and Performance Systems, Pennsylvania State University

Lemelson Center Visiting Committee

Ruth Schwartz Cowan, Jonice and Julian Bens Professor, University of Pennsylvania

Daryl M. Hafter, Professor of History (Emerita), Eastern Michigan University

David J. Rhees, Executive Director, Bakken Library and Museum

Helin W. Samuels, Institute Archivist (Emerita), Massachusetts Institute of Technology

Jeffrey L. Sturchio, President and CEO, Global Health Council

Janice and Julian Bers Professor,