

Projects, Publications, Meetings and Donors to the Academy

20
17

SCIENCE, ENGINEERING,
AND TECHNOLOGY

GLOBAL SECURITY AND
INTERNATIONAL AFFAIRS

AMERICAN INSTITUTIONS,
SOCIETY, AND THE PUBLIC GOOD

EDUCATION AND THE
DEVELOPMENT OF KNOWLEDGE

THE HUMANITIES,
ARTS, AND CULTURE

CONTENTS

From the President	3
Projects, Publications & Meetings	
SCIENCE, ENGINEERING, AND TECHNOLOGY	
Overview	4
New Models for U.S. Science & Technology Policy	5
The Public Face of Science	7
The Alternative Energy Future	15
GLOBAL SECURITY AND INTERNATIONAL AFFAIRS	
Overview	18
New Dilemmas in Ethics, Technology, and War	19
The Global Nuclear Future	25
Civil Wars, Violence, and International Responses	28
Understanding the New Nuclear Age	31
EDUCATION AND THE DEVELOPMENT OF KNOWLEDGE	
Overview	35
Commission on the Future of Undergraduate Education	36
The Lincoln Project: Excellence and Access in Public Higher Education	40
THE HUMANITIES, ARTS, AND CULTURE	
Overview	43
Commission on Language Learning	44
The Humanities Indicators	48
Commission on the Arts	50
AMERICAN INSTITUTIONS, SOCIETY, AND THE PUBLIC GOOD	
Overview	53
Making Justice Accessible: Data Collection and Legal Services for Low-Income Americans	54
EXPLORATORY INITIATIVES	55
LOCAL PROGRAM COMMITTEES	69
DISCUSSION GROUPS	72
MEMBER EVENTS	74
AFFILIATES OF THE AMERICAN ACADEMY	88
Donors to the Academy	91
Academy Leadership	100

FROM THE PRESIDENT

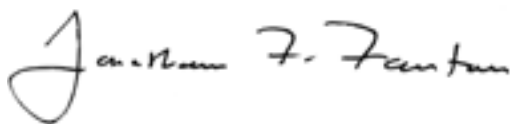
In the spring of 1780, as American forces suffered a devastating loss in the Siege of Charleston, John Adams, James Bowdoin, and sixty other visionaries founded the American Academy of Arts and Sciences. The Academy's charter members pledged to "cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people." Now, 237 years later, the American Academy, through its commitment to championing civil dialogue and promoting useful knowledge, continues to advance the interests of the nation and the world.

The pages that follow describe the projects and publications that are the work of Academy Members. Some, like "New Models for U.S. Science and Technology Policy, the Commission on Language Learning, and the Commission on the Future of Undergraduate Education, address issues important to research and higher education. Others, like New Dilemmas in Ethics, Technology, and War and The Public Face of Science, are projects with wider implications for public policy. The Public Face of Science Initiative, for instance, seeks to understand how trust, or mistrust, in science develops.

The Academy's Exploratory Fund invites Members to meet with their colleagues across disciplines and professions to discuss questions of common interest. Through the Exploratory Fund, Members have examined such topics as the poor record of providing low-income citizens with access to legal representation, the future of jazz, and the need to develop a new international norm to protect cultural heritage in conflict zones.

Academy Members are more active than ever in the commissions, projects, and exploratory meetings described in this publication. And Members are taking responsibility for making the work of the Academy better known so that it can, as the founders imagined, advance the common good. The Academy organized 100 meetings of its Members, 50 of them in 24 cities beyond our Cambridge home base. Local Programs Committees have formed in 12 cities from New Haven to New York and Washington, D.C.; from Houston to St. Louis; and from San Diego to Los Angeles and Berkeley.

We are living at a time when the public and policy-makers are looking for information they can trust and for venues that provide open and civil discourse – in search of a consensus on policies that advance the common good. The Academy, known for its independent, evidence-based research, has an important role to play. I invite Members to contact me if they would like to engage in the work described in the pages that follow or have other ideas they would like to pursue through the Academy.





Science, Engineering, and Technology

Academy projects in Science, Engineering, and Technology seek to strengthen the capacity of science and engineering to improve the human condition. This goal has never been more important for the nation, or for the world. Global challenges increasingly require collaboration across disciplinary, professional, and national boundaries, while rapid advances in information processing and transmission raise new issues for both the management of scientific and technical information and for the ability of individuals and institutions to assimilate and act on new discoveries.

Drawing on the broad expertise of its membership and outside experts, Academy studies analyze the impact of advances in science, engineering, and technology and develop policy recommendations that are made available to government, academia, nongovernmental organizations, and the private sector. Activities focus on increasing public understanding of current research and technological change, and on helping society adapt effectively and make meaningful use of new scientific and technical knowledge. Areas of interest include U.S. productivity in science and engineering; public understanding of, and trust in, science, engineering, and medicine; and how the adoption of new technologies shapes, and is shaped by, societal values and individual and institutional decision-making. More information about this program area is available on the Academy's website at www.amacad.org/science.

PROJECT NEW MODELS FOR U.S. SCIENCE & TECHNOLOGY POLICY

In September 2014, the New Models for U.S. Science and Technology Policy commission issued its report, *Restoring the Foundation: The Vital Role of Research in Preserving the American Dream*. The report underscored the importance of federally supported research, particularly basic research, that is critical for driving innovation and ensuring economic opportunities. The report also called for long-term planning and sustainability for the nation's research enterprise.

In today's fast-paced, high-tech, knowledge-based economy, staying globally competitive requires innovation and rapid integration of new knowledge and technologies that emerge from investments in research and development. The *Restoring the Foundation* report and subsequent follow-up efforts urged a greater focus on the long-term sustainability of the U.S. research enterprise and offered recommendations in three areas that will be critical for securing America's leadership in science, engineering, and technology in the twenty-first century:

- *Secure America's Leadership in Science and Engineering Research – Especially Basic Research – by Providing Sustainable Federal Investments.* America is falling behind in innovation by failing to make sustainable long-term investments needed to remain the global leader in industry and commerce.
- *Ensure that the American People Receive the Maximum Benefit from Federal Investments in Research.* Many current policies and practices in government, industry, and universities have become overly burdensome and diminish the productivity of the research system.
- *Regain America's Standing as an Innovation Leader by Establishing a More Robust National Government-University-Industry Research Partnership.* The United States is in need of a new kind of research partnership that includes government (federal and state), universities (public and private), and industry, as well as philanthropy and private foundations, in which each sector supports the nation's science and technology research enterprise.

Several initiatives have emerged in response to *Restoring the Foundation*. In June 2015, the Academy joined with a coalition of organizations in issuing "Innovation: An American Imperative," a statement in support of several of the report's key recommendations. The leaders of nine large U.S. corporations signed the call to action, which urged Congress to enact policies and make investments to ensure that the United States remains the global innovation leader. Over five hundred organizations from all fifty states have endorsed the call to action.

In October 2015, members of the Innovation Imperative coalition held a public symposium on Capitol Hill, at which industry leaders discussed federal policies and investments that would promote innovation, stimulate economic growth and prosperity, and ensure the country's health and national security. In January 2016, a bipartisan group of members from both houses of Congress sent a letter to their colleagues that underscored the importance of several policy prescriptions set forth in the *Restoring the Foundation* report and reaffirmed by the Innovation Imperative call to action.

In May 2016, Academy Member Jeannette M. Wing, formerly Corporate Vice President at Microsoft Research, delivered testimony on *Restoring the Foundation* before the Senate Committee on Commerce, Science, and Transportation to further elevate the profile of the report's recommendations for enhancing the U.S. research enterprise. Legislation addressing several of the report's recommendations, including affirming the value of peer review and reducing administrative burdens on researchers, was passed by the U.S. Congress in December 2016 and signed into law by President Barack Obama in January 2017. One other recommendation, to strengthen and make permanent the R&D tax credit for businesses, was passed by Congress in December 2015.

NEW MODELS FOR U.S. SCIENCE & TECHNOLOGY POLICY, *continued*

Project Chairs

Norman R. Augustine
Lockheed Martin Corporation, ret.

Neal Lane
Rice University

Project Members

Nancy C. Andrews
*Duke University School of
Medicine*

John E. Bryson
*formerly, U.S. Department of
Commerce; formerly, Edison
International*

Thomas R. Cech
*University of Colorado Boulder;
formerly, Howard Hughes
Medical Institute*

Steven Chu
*Stanford University; formerly,
U.S. Department of Energy*

Jared Cohon
Carnegie Mellon University

James J. Duderstadt
University of Michigan

Mark C. Fishman
*Harvard University;
formerly, Novartis Institutes for
BioMedical Research*

Sylvester James Gates, Jr.
University of Maryland

Bart Gordon
*K&L Gates; formerly, U.S. House
of Representatives*

M.R.C. Greenwood
University of Hawaii System, ret.

John L. Hennessy
Stanford University

Charles O. Holliday, Jr.
*Royal Dutch Shell;
formerly, Bank of America;
formerly, E. I. du Pont de
Nemours and Company*

Peter S. Kim
*Stanford University; formerly,
Merck Research Laboratories*

Dana Mead
MIT Corporation

Richard A. Meserve
*Covington & Burling LLP;
formerly, Carnegie Institution for
Science*

C. D. Mote, Jr.
*National Academy of Engineering;
University of Maryland*

Venkatesh Narayanamurti
Harvard University

Maxine L. Savitz
Honeywell Inc., ret.

Robert F. Sproull
*University of Massachusetts
Amherst; formerly, Oracle
Corporation*

Subra Suresh
Carnegie Mellon University

Shirley M. Tilghman
Princeton University

Jeannette M. Wing
*Columbia University;
formerly, Microsoft Research*

Elias Zerhouni
Sanofi

Project Advisors

John C. Crowley
Charlottesville, VA

Kirstin Matthews
Rice University

Project Staff

John Randell

Shalin Jyotishi

Dorothy Koveal

Alison Leaf

Keerthi Shetty

Funders

*Louise Henry Bryson and
John E. Bryson*

*John D. and Catherine T.
MacArthur Foundation*

*Gordon and Betty Moore
Foundation*

Simons Foundation

Alfred P. Sloan Foundation

PROJECT PUBLICATION \ \ NEW MODELS FOR U.S. SCIENCE & TECHNOLOGY POLICY



Restoring the Foundation: The Vital Role of Research in Preserving the American Dream (American Academy of Arts and Sciences, 2014)

PROJECT THE PUBLIC FACE OF SCIENCE

The Public Face of Science initiative engages a broad range of experts in communication, law, humanities, the arts, journalism, public affairs, and the physical, social, and life sciences. The initiative is addressing various aspects of the complex and evolving relationship between scientists and the public, including:

- 1) **Trust and Perception:** The project is studying how individual beliefs and scientific comprehension affect the perception of and trust in the scientific process, including:
 - How scientific discourse, disputes, and consensus are portrayed in the media;
 - To what extent the public has confidence in the self-correcting nature of science; and
 - How journalistic practices could be refined to better convey the incremental and iterative process of scientific research.
- 2) **Public and Media Engagement:** The Academy is organizing conversations with members around the country to examine how the public's understanding of, and trust in, science has varied historically among scientific fields, and to encourage and equip members to engage more closely

with nonscientific audiences. Additionally, building on the Academy's publication *Science and the Media* (2010), the project is organizing a series of discussions with science journalists in Boston and across the country to examine the role of the media (including new outlets such as social, digital, and local media) in shaping the public's perception of how scientists work, think, collaborate, and debate.

- 3) **Informing Policy and Action:** To complement the activities described above, the Academy is undertaking a series of short-term (12–18 month) studies examining how scientists are consulted during public decision-making processes. Examples include court decisions and responses to natural disasters and disease outbreaks.

While this project does not directly address scientific literacy in K-12 and adult education, it will inform such efforts by fostering a greater understanding of the public's attitude toward science. Accordingly, throughout this initiative the Academy will seek opportunities to partner with radio and television producers to create programming that conveys key findings to public audiences.

Project Chairs

Richard A. Meserve
Covington & Burling LLP;
formerly, Carnegie Institution
for Science

Geneva Overholser
The Democracy Fund; formerly,
USC Annenberg School for
Communication and Journalism

Steering Group Members

Emilio Bizzi
Massachusetts Institute of
Technology

Geoffrey Cowan
University of Southern California

Ellen Futter
American Museum of Natural
History

Sylvester James Gates, Jr.
University of Maryland; formerly,
President's Council of Advisors on
Science and Technology

Robert Hauser
University of Wisconsin-Madison;
American Philosophical Society

Rush D. Holt, Jr.
American Association for the
Advancement of Science

Kathleen Hall Jamieson
University of Pennsylvania

Venkatesh Narayanamurti
Harvard University

Nora Newcombe
Temple University

Kenneth Prewitt
Columbia University

Rebecca Rimel
Pew Charitable Trusts

Cristián Samper
Wildlife Conservation Society

Samuel Thier
Harvard Medical School;
Massachusetts General Hospital

Project Staff

John Randell

Shalin Jyotishi

Erica Kimmerling

Alison Leaf

Keerthi Shetty

Funders

Gordon and Betty Moore
Foundation

Rita Allen Foundation

Alfred P. Sloan Foundation

PROJECT MEETINGS \ THE PUBLIC FACE OF SCIENCE

The Evolving Public Face of Science: Roundtable Discussion with Knight Science Journalism Fellows and Nieman Fellows

September 25, 2016
American Academy
Cambridge, MA

Featured speaker

Geneva Overholser
*Democracy Fund; formerly,
USC Annenberg School for
Communication and Journalism*

Participants

Aleszu Bajak
Undark

Deborah Blum
*MIT Knight Science Journalism
Program*

Lolly Bowean
Nieman Fellow

Ivan Carrillo
Knight Science Journalism Fellow

David Corcoran
*MIT Knight Science Journalism
Program; Undark*

Tyler Dukes
Nieman Fellow

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Chloe Hecketsweiler
Knight Science Journalism Fellow

Shalin Jyotishi
*American Academy of Arts
and Sciences*

Alison Leaf
*American Academy of Arts
and Sciences*

Robert McClure
Knight Science Journalism Fellow

Laurie McDonough
*American Academy of Arts
and Sciences*

Maura O'Connor
Knight Science Journalism Fellow

Rosalia Omungo
Knight Science Journalism Fellow

Sonja Plesset
*American Academy of Arts
and Sciences*

John Randell
*American Academy of Arts
and Sciences*

Meera Subramanian
Knight Science Journalism Fellow

Fabio Turone
Knight Science Journalism Fellow

Bianca Vazquez Toness
Knight Science Journalism Fellow

Heidi Vogt
Nieman Fellow

Lauren Whaley
Knight Science Journalism Fellow

Mark Wolverton
Knight Science Journalism Fellow

Public Engagement Working Group

Spring 2017
American Academy
Cambridge, MA

The Academy convened a Public Engagement Working Group in Spring 2017 under the auspices of the Public Face of Science initiative.

While the public has exhibited relatively stable trust in science over the past several decades, there exists a wide gap between the views of scientists and the public on certain topics, including climate change, genetically modified organisms, and vaccine safety. Emerging scientific advancements, such as artificial intelligence and genetic engineering in humans, bring the risk of additional misalignments in the views of scientists and non-scientists, which will likely complicate the development of public policies and ethical guidelines related to these advances.

The Academy's Public Engagement Working Group provided a forum for a diverse group of participants from the Greater Boston area, including scientists, historians, and communication experts, to draw lessons from historical case studies that could be applied to future efforts to develop public consensus on potentially controversial scientific developments.

Session 1: Introduction and Case Study Selection – February 23, 2017

The first session introduced the Working Group, clarified its purpose and goals, and finalized the selection of the case studies.

PUBLIC ENGAGEMENT WORKING GROUP, *continued*

Sessions 2–4: An Examination of Three Case Studies

For each of these three sessions, the Academy invited history of science scholars and other experts to examine how governance mechanisms, public engagement activities, and other social factors help shape public attitudes on contentious scientific topics.

Case Study 1: Vaccines – March 30, 2017

Speakers: **Barry Bloom** (Harvard T.H. Chan School of Public Health; cochair of the American Academy report on *Public Trust in Vaccines*) and **Seth Mnookin** (Massachusetts Institute of Technology; cochair of the American Academy report on *Public Trust in Vaccines*)

Case Study 2: Genome Editing – April 13, 2017

Speakers: **Sophia Roosth** (Harvard University); **Richard O. Hynes** (Massachusetts Institute of Technology); and **Kevin Esvelt** (MIT Media Lab)

Case Study 3: Atmospheric Pollution and Climate Change – May 11, 2017

Speakers: **James Fleming** (Colby College) and **Philip Duffy** (Woods Hole Oceanographic Institution)

Session 5: Connecting to the Public – June 8, 2017

During the final session, participants refined the lessons learned from the case studies and developed ideas on how to build trust and engage the public in preparation for future innovations. Speakers: **Jennifer Hochschild** (Harvard University) and **David Kaiser** (Massachusetts Institute of Technology)

Chair

James Haber
Brandeis University

Planning Group

Janet Browne
Harvard University

Claude Canizares
Massachusetts Institute of Technology

James Haber
Brandeis University

H. Robert Horvitz
Massachusetts Institute of Technology

Lisa Randall
Harvard University

Participants

Stephen D. Ansolabehere
Harvard University

Barry R. Bloom
Harvard T.H. Chan School of Public Health

Emilio Bizzi
Massachusetts Institute of Technology

Daniel Branton
Harvard University

Janet Browne
Harvard University

Claude R. Canizares
Massachusetts Institute of Technology

Richard E. Cavanagh
Harvard Kennedy School; Fremont Group

Sallie Chisholm
Massachusetts Institute of Technology

John F. Cogan, Jr.
Pioneer Investment Management USA, Inc.

Richard Cooper
Harvard University

John Dowling
Harvard University

Philip B. Duffy
Woods Hole Oceanographic Institution

Peter T. Ellison
Harvard University

Jonathan F. Fanton
American Academy of Arts and Sciences

Jeffrey Flier
Harvard Medical School

Alfred L. Goldberg
Harvard Medical School

James Haber
Brandeis University

Jennifer Hochschild
Harvard University



Jennifer Hochschild and James Haber

PUBLIC ENGAGEMENT WORKING GROUP, *continued*

H. Robert Horvitz
*Massachusetts Institute of
Technology*

Ray S. Jackendoff
Tufts University

Gish Jen
Cambridge, MA

Jerome Kagan
Harvard University

David Kaiser
*Massachusetts Institute of
Technology*

Martin Karplus
Harvard University

Jerome P. Kassirer
*Tufts University School of
Medicine*

Evelyn Fox Keller
*Massachusetts Institute of
Technology*

Edward Kravitz
Harvard Medical School

Ronald Latanision
*Massachusetts Institute of
Technology; Exponent Failure
Analysis Associates*

Helen Lee
*Massachusetts Institute of
Technology*

Robert LeVine
*Harvard Graduate School of
Education*

Jay Lorsch
Harvard Business School

Charles Maier
Harvard University

Courtney McDermott
*American Academy of Arts
and Sciences*

Laurie McDonough
*American Academy of Arts
and Sciences*

Everett Mendelsohn
Harvard University

Carol C. Nadelson
*Brigham and Women's Hospital;
Harvard Medical School*

Mary Lou Pardue
*Massachusetts Institute of
Technology*

David E. Pritchard
*Massachusetts Institute of
Technology*

Lisa Randall
Harvard University

John Randell
*American Academy of Arts
and Sciences*

Sophia Roosth
Harvard University

Virginia Sapiro
Boston University

Kay Schlozman
Boston College

Keerthi Shetty
*American Academy of Arts
and Sciences*

Vivian Siegel
*Massachusetts Institute of
Technology*

Eugene B. Skolnikoff
*Massachusetts Institute of
Technology*

Mriganka Sur
*Massachusetts Institute of
Technology*

John A. Whitehead
*Woods Hole Oceanographic
Institution*

Carl Wunsch
*Massachusetts Institute of
Technology*



Carl Wunsch, Lisa Randall, and Barry Bloom

Encountering Science in Everyday Life: How Public Engagement with Science Shapes Long-Term Attitudes

June 1-2, 2017
American Academy
Cambridge, MA

At this workshop, the participants discussed the existing data on public perceptions of science and how the public learns about science. They also identified gaps in the scholarly understanding of these issues, and discussed how additional

data could be collected to improve the understanding of public perceptions of science. The conclusions from the workshop will form the basis of a research agenda and be published in forthcoming Academy reports.

Workshop Chairs

Richard A. Meserve
Covington & Burling LLP;
formerly, Carnegie Institution
for Science

Geneva Overholser
Democracy Fund; formerly,
USC Annenberg School for
Communication and Journalism

Participants

Jamie Bell
Center for Advancement of
Informal Science Education

Emilio Bizzi
Massachusetts Institute of
Technology

Kelly A. Borden
Max Adler Planetarium

Anne Bowser
Woodrow Wilson International
Center for Scholars

Dominique Brossard
University of Wisconsin-Madison

Elizabeth Good
Christopherson
Rita Allen Foundation

John Durant
Massachusetts Institute of
Technology

John H. Falk
Institute for Learning Innovation;
Oregon State University

Jonathan F. Fanton
American Academy of Arts
and Sciences

Cary Funk
Pew Research Center

Nettrice Gaskins
Boston Arts Academy

David Goldston
MIT Washington Office

Robert M. Hauser
American Philosophical Society;
University of Wisconsin-Madison

Jennifer Hochschild
Harvard University

Rush D. Holt
American Association for the
Advancement of Science

Kaye Husbands Fealing
Georgia Institute of Technology

Kathleen Hall Jamieson
University of Pennsylvania

Shalin Jyotishi
American Academy of Arts
and Sciences

Dan Kahan
Yale University

Erica Kimmerling
American Academy of Arts
and Sciences

Derek Koehler
University of Waterloo

Silje Kristiansen
Northeastern University



John Durant and Cara Santa Maria

ENCOUNTERING SCIENCE IN EVERYDAY LIFE, *continued*

Alison Leaf

*American Academy of Arts
and Sciences*

Alan I. Leshner

*American Association for the
Advancement of Science*

Bruce Lewenstein

Cornell University

Tiffany Lohwater

*American Association for the
Advancement of Science*

Arthur Lupia

University of Michigan

Ezra Markowitz

*University of Massachusetts
Amherst*

Eric Marshall

The Kavli Foundation

Venkatesh Narayanamurti

Harvard University

Nora S. Newcombe

Temple University

Matthew C. Nisbet

Northeastern University

Christine O'Connell

Stony Brook University

Karen Peterman

Karen Peterman Consulting Co.

Tina Phillips

Cornell Lab of Ornithology

Kenneth Prewitt

Columbia University

John Randell

*American Academy of Arts
and Sciences*

Anna Rothschild

NOVA; Gross Science

Meisa Salaita

Atlanta Science Festival

Cara Santa Maria

Freelance Science Communicator

Keerthi Shetty

*American Academy of Arts
and Sciences*

Brooke Smith

*Independent Consultant;
formerly, COMPASS*

Elizabeth Suhay

American University

Samuel O. Thier

*Harvard Medical School;
Massachusetts General Hospital*

Christopher Volpe

ScienceCounts

Doron Weber

Alfred P. Sloan Foundation



Kathleen Hall Jamieson and Arthur Lupia

PUBLIC FACE OF SCIENCE \ SCIENCE DURING CRISIS

The American Academy is carrying out a two-year study on the coordination and deployment of interdisciplinary scientific teams during crisis response. On April 20 and 21, 2017, the Academy convened a meeting of crisis advisors, emergency response managers, and scholars to develop best practices

for science during crisis; a research agenda on the topic; and recommendations for policy-makers at the federal, state, and local levels. The conclusions from the discussion will be published in a forthcoming Academy report.

Project Chairs

Rita Colwell
University of Maryland;
formerly, National Science Foundation

Gary Machlis
Clemson University;
formerly, U.S. National Park Service

PROJECT MEETING \ SCIENCE DURING CRISIS

Workshop on Science During Crisis

April 20–21, 2017
American Academy
Cambridge, MA

Participants

Deborah Brosnan
Deborah Brosnan & Associates

Arrietta Chakos
*Association of Bay Area
Governments*

Rita Colwell
University of Maryland; formerly,
National Science Foundation

A.J. Faas
San Jose State University

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Jeffrey Fox
*Independent Science Writer
and Editor*

Shalin Jyotishi
*American Academy of Arts
and Sciences*

Alison Leaf
*American Academy of Arts
and Sciences*

Kristin Ludwig
U.S. Geological Survey

Scott Lundgren
*National Oceanic and
Atmospheric Administration*

Nicole Lurie
*U.S. Department of Health and
Human Services*

Gary Machlis
Clemson University; formerly,
U.S. National Park Service

Alice Pennaz
U.S. Geological Survey

Geoffrey Plumlee
U.S. Geological Survey

John Randell
*American Academy of Arts
and Sciences*

Ted D. Serrant
*Houston Independent School
District; University of the West
Indies*

Keerthi Shetty
*American Academy of Arts
and Sciences*

Kate Starbird
University of Washington

Gregory Symmes
*National Academies of Sciences,
Engineering, and Medicine*

Jessica M. Wyndham
*American Association for the
Advancement of Science*



Participants at the workshop on Science During Crisis

PUBLIC FACE OF SCIENCE \\\ SCIENCE AND THE LEGAL SYSTEM

Scientific and technological advances have increased the overlap between scientific learning and legal issues. Yet leading scientists are often reluctant to become involved with the legal system or have difficulties in communicating their knowledge. Despite the importance of the issue, there are few systematic studies of how scientists view the legal system and of their experiences as consultants to lawyers or judges or as expert witnesses. The American Academy is studying these issues through a survey of its scientist members and

through in-depth conversations with selected scientific and legal experts. The goal is to learn what motivates scientists to participate or to refuse to participate in legal processes and to recommend ways to improve the science-law relationship.

The project will culminate in a *Dædalus* issue that will include essays by leading scientists and lawyers as well as an article summarizing survey results from the Science and the Legal System study.

Project Chairs

Shari Seidman Diamond
Northwestern University Pritzker School of Law;
American Bar Foundation

Richard Lempert
University of Michigan

PROJECT MEETINGS \\\ SCIENCE AND THE LEGAL SYSTEM

Science and the Legal System panel at the 2017 American Association for the Advancement of Science Annual Meeting

February 18, 2017
Hynes Convention Center
Boston, MA

Three Academy members led a panel discussion on “When the Legal System Seeks Help from Scientists: Successes and Failures,” about the survey results from the Science and the Legal System study. The session was part of the American Association for the Advancement of Science’s 2017 Annual Meeting and was featured in a news article published in *Science Magazine* as a part of its coverage of the conference. A full report of the results will be presented in a forthcoming issue of *Dædalus* on Science and the Legal System.

Speakers

Shari Seidman Diamond
Northwestern University
Pritzker School of Law;
American Bar Foundation

Richard Lempert
University of Michigan

Elizabeth Loftus
University of California, Irvine

Moderator

Keerthi Shetty
American Academy of Arts
and Sciences

Dædalus Authors’ Conference on Science and the Legal System

July 20–21, 2017
American Academy
Cambridge, MA

Participants

Huda Akil
University of Michigan

Robert Cook-Deegan
Arizona State University

Shari Seidman Diamond
Northwestern University
Pritzker School of Law;
American Bar Foundation

Rebecca Eisenberg
University of Michigan
Law School

Nancy Gertner
Harvard Law School; United
States District Court for the
District of Massachusetts, ret.

Linda Greenhouse
Yale Law School

Susan Haack
University of Miami

Valerie P. Hans
Cornell Law School

Sheila Jasanoff
Harvard Kennedy School

Jay Kadane
Carnegie Mellon University

Richard Lempert
University of Michigan

Elizabeth Loftus
University of California, Irvine

Anne-Marie Mazza
National Academies of Sciences,
Engineering, and Medicine

Jennifer L. Mnookin
University of California,
Los Angeles School of Law

DAEDALUS AUTHORS' CONFERENCE ON SCIENCE AND THE LEGAL SYSTEM, *continued*

Jed Rakoff

*United States District Court for
the Southern District of New York*

Daniel Rubinfeld

*University of California,
Berkeley School of Law;
New York University*

Michael Saks

*Sandra Day O'Connor College of
Law, Arizona State University*

Joseph Sanders

University of Houston Law

Patti Saris

*United States District Court for
the District of Massachusetts*

Project Staff

John Randell

*American Academy of Arts
and Sciences*

Keerthi Shetty

*American Academy of Arts
and Sciences*

PROJECT THE ALTERNATIVE ENERGY FUTURE

Extensive studies of energy and climate have concluded that the energy system in the United States must undergo a substantial transformation to address economic, environmental, and geopolitical challenges. As this transformation takes place, both individuals and public- and private-sector institutions will need to adapt to the profound societal change that will accompany the adoption of new energy technologies. The Alternative Energy Future project is developing a cohesive understanding of the social and regulatory factors that can either inhibit or facilitate transformative change in the U.S. energy system.

The project objectives are: 1) to demonstrate the value of social science in designing and adopting innovations in the physical energy system; and 2) to create a research program aimed at understanding how governing institutions and policy design must adapt to the demands of a changing energy infrastructure.

Building on the 2011 Academy report *Beyond Technology: Strengthening Energy Policy through Social Science* and two special issues of *Daedalus* on the Alternative Energy Future, the Academy is undertaking a research project to better understand the design attributes that contribute to policy durability and flexibility. The study draws on lessons from the Clean Air Act (CAA), which is a prominent example of a policy that has persisted for decades while adapting continuously to new scientific, technological, and economic information.

The Academy study uses five specific components of the CAA as case studies to facilitate identification of crucial design attributes that promote or detract from both policy durability and flexibility and positive program outcomes. The case studies and their conclusions will be published in a forthcoming book from Cambridge University Press.

Project Chairs

Granger Morgan

Carnegie Mellon University

Maxine L. Savitz

Honeywell Inc., ret.

**STUDY GROUP ON
DURABILITY AND
ADAPTABILITY IN
ENERGY POLICY**

Study Group Chairs

Dallas Burtraw

Resources for the Future

Ann Carlson

*University of California,
Los Angeles*

Study Group Members

Joseph Aldy

Harvard University

William Boyd

*University of Colorado Law
School, Boulder*

Eric Patashnik

Brown University

Barry Rabe

University of Michigan

Hannah Wiseman

*Florida State University
College of Law*

Project Staff

John Randell

Shalin Jyotishi

Alison Leaf

Funders

*The Cynthia and George Mitchell
Foundation*

National Science Foundation

*New York State Energy Research
and Development Authority
(NYSERDA)*

Skoll Global Threats Fund

Alfred P. Sloan Foundation

The Kresge Foundation

U.S. Department of Energy

PROJECT PUBLICATIONS \ THE ALTERNATIVE ENERGY FUTURE



“The Alternative Energy Future,” vols. 1 – 2, *Dædalus*
(Spring 2012 and Winter 2013)

*Beyond Technology: Strengthening Energy Policy through Social
Science* (American Academy of Arts and Sciences, 2011)

PROJECT MEETINGS \ THE ALTERNATIVE ENERGY FUTURE

Durability and Adaptability in Energy Policy Study Group Meeting

July 21, 2016
Resources for the Future
Washington, D.C.

At this meeting, study group members reviewed drafts of the chapters that will be published in a forthcoming edited volume from Cambridge University Press.

Participants

Joseph Aldy
Harvard University

William Boyd
*University of Colorado Law
School, Boulder*

Dallas Burtraw
Resources for the Future

Ann Carlson
*University of California,
Los Angeles*

Judson Jaffe
U.S. Department of the Treasury

Barbara Kates-Garnick
Tufts University

Alison Leaf
*American Academy of Arts
and Sciences*

Kristen McCormack
Resources for the Future

Granger Morgan
Carnegie Mellon University

Eric Patashnik
Brown University

Vickie Patton
Environmental Defense Fund

Barry Rabe
University of Michigan

John Randell
*American Academy of Arts
and Sciences*

Philip Sharp
Resources for the Future

Hannah Wiseman
Florida State University

Durability and Adaptability in Energy Policy Workshop

March 3, 2017
Resources for the Future
Washington, D.C.

Study group members presented the study conclusions at a workshop attended by forty scholars of energy and environmental policy, including legal scholars, economists, political

scientists, and practicing lawyers. The feedback will be integrated into the five case studies prior to publication of the edited volume.

Participants

Joseph Aldy
Harvard University

Phil Barnett
*Schilero Barnett LLC; formerly,
U.S. House of Representatives*

William Boyd
*University of Colorado Law
School, Boulder*

Dallas Burtraw
Resources for the Future

William W. Buzbee
Georgetown University

Sanya Carley
Indiana University

Ann Carlson
*University of California,
Los Angeles*

Megan Ceronksy
*formerly, Executive Office of
the President*

Kyle Danish
Van Ness Feldman LLP

Art Fraas
Resources for the Future

Emily Hammond
George Washington University

Kathryn Harrison
University of British Columbia

Jeff Holmstead
Bracewell LLP

Judson Jaffe
U.S. Department of the Treasury

Barbara Kates-Garnick
Tufts University

Nat Keohane
Environmental Defense Fund

David Konisky
Indiana University

Elizabeth Kopits
*U.S. Environmental Protection
Agency*

Alan Krupnick
Resources for the Future

Alison Leaf
*American Academy of Arts
and Sciences*

Joshua Linn
Resources for the Future

Benjamin Longstreth
*Natural Resources Defense
Council*

R. Shep Melnick
Boston College

Evan Michelson
Alfred P. Sloan Foundation

Jonas Monast
*University of North Carolina
at Chapel Hill*

Granger Morgan
Carnegie Mellon University

Brian Murray
Duke University Energy Initiative

Gabriel Pacyniak
Georgetown University

Eric Patashnik
Brown University

Vickie Patton
Environmental Defense Fund

Barry Rabe
University of Michigan

John Randell
*American Academy of Arts
and Sciences*

Leigh Raymond
Purdue University

Richard L. Revesz
New York University

Nathan Richardson
University of South Carolina

Maxine L. Savitz
Honeywell Inc., ret.

Philip Sharp
Resources for the Future

William Shobe
University of Virginia

Robert Sussman
*Georgetown Law Center;
Yale School of Forestry and
Environmental Studies*

Nancy Sutley
*Los Angeles Department of Water
and Power*

Philip Wallach
Brookings Institution

Hannah Wiseman
Florida State University

Kathryn Zyla
Georgetown Climate Center



Ann Carlson and Dallas Burtraw



Global Security and International Affairs

The Global Security and International Affairs program area draws on the expertise of policy-makers, practitioners, and scholars to foster knowledge and inform innovative and more sustainable policies to address critical issues affecting a global community. To achieve this goal, our projects engage with pressing strategic, development, and moral questions that underpin relations among people, communities, and states worldwide. Each of our initiatives embraces a broad conception of security as the interaction among human, national, and global security imperatives. Our recommendations seek to move beyond the idea of security as the absence of war toward higher aspirations of collective peace, development, and justice. More information about this program area is available on the Academy's website at www.amacad.org/global-security.

PROJECT NEW DILEMMAS IN ETHICS, TECHNOLOGY, AND WAR

The project on New Dilemmas in Ethics, Technology, and War explores the ethical and moral issues created by changes in military technology and the evolving character of warfare. This study follows from the observation that although technological innovations and political developments are altering the conventional way in which warfare is conducted, efforts to align the international legal framework with this evolving context have lagged behind. The ethical and legal fabric traditionally provided by the International Law of Armed Conflict has been eroded and undermined by the rise of non-state actors and the deployment of new military technology, such as drones and cyber weapons, which increasingly reduce the human role in combat operations.

The project addresses the growing gap between the scholarship on ethics and war and the policy-relevant work that can influence government decisions and public debates.

The project has produced two issues of *Dædalus* that, together with an extensive policy outreach strategy, are influencing and shaping pertinent policy debates by identifying and disseminating key lessons learned and policy recommendations that might be of value to policy-makers and military strategists.

Project Chair

Scott D. Sagan
Stanford University

Steering Committee

Norman R. Augustine
Lockheed Martin Corporation, ret.

Lloyd Axworthy
University of Waterloo; formerly, Department of Foreign Affairs, Trade, and Development, Government of Canada

James Ellis
Stanford University; Institute of Nuclear Power Operations, ret.; U.S. Navy, ret.

Tanisha Fazal
University of Minnesota

Jennifer Leaning
Harvard University

Gilman Louie
Alsop Louie Partners; formerly, In-Q-Tel

David Luban
Georgetown University

Mark Martins
U.S. Army, Judge Advocate General's Corps

Aryeh Neier
Paris School of International Affairs of Sciences Po

Janne Nolan
George Washington University

Barry Posen
Massachusetts Institute of Technology

Nancy Sherman
Georgetown University

Michael Walzer
Institute for Advanced Study

Jennifer Welsh
European University Institute

Project Staff

Francesca Giovannini
Kathryn Moffat

Funders

Humanity United

John D. and Catherine T. MacArthur Foundation

The Rockefeller Foundation

PROJECT PUBLICATIONS NEW DILEMMAS IN ETHICS, TECHNOLOGY, AND WAR



“Ethics, Technology & War,” *Dædalus* (Fall 2016)

“The Changing Rules of War,” *Dædalus* (Winter 2017)

PROJECT MEETINGS \ NEW DILEMMAS IN ETHICS, TECHNOLOGY, AND WAR

A Collective Moral Awakening: Ethical Choices in War and Peace

November 16, 2016
Stanford University

On November 16, 2016, the New Dilemmas in Ethics, Technology, and War project hosted a Stated Meeting at Stanford University to explore how complex organizations – such as the military, government, international organizations, and the

medical and humanitarian communities – navigate between national security imperatives and ethical and legal commitments. The panelists presented their contributions to the Fall 2016 and Winter 2017 *Dædalus* volumes.

Participants

Joseph H. Felter
Stanford University

Scott D. Sagan
Stanford University

Debra Satz
Stanford University

Paul Wise
Stanford University



Scott Sagan, Joseph Felter, Paul Wise, and Debra Satz

Briefings in Brussels

November 28, 2016
Brussels, Belgium

On November 28, 2016, members of the New Dilemmas in Ethics, Technology, and War project participated in a series of briefings in Brussels with representatives from the European Commission's European Group on Ethics in Science and New Technologies and the International Crisis Group. During a

briefing with NATO, Project Chair Scott D. Sagan presented his *Dædalus* essay, "The Nuclear Necessity Principle: Making U.S. Targeting Policy Conform with Ethics & the Laws of War," coauthored with Jeffrey G. Lewis.

Participants

Francesca Giovannini
*American Academy of Arts
and Sciences*

Kathryn Moffat
*American Academy of Arts
and Sciences*

Scott D. Sagan
Stanford University

Esha Senchaudhuri
*American Academy of Arts
and Sciences*

Ethical Dilemmas in War

November 29, 2016
King's College London
London, United Kingdom

On November 29, 2016, the New Dilemmas in Ethics, Technology, and War project and the School of Security Studies at King's College London co-hosted a series of panel discussions

on the ethical dilemmas presented by nuclear weapons, rules of engagement on the battlefield, and emerging technologies, including autonomous weapons.

Speakers

Lloyd Axworthy
*University of Waterloo, formerly,
Department of Foreign Affairs,
Trade, and Development,
Government of Canada*

Bleddyn Bowen
King's College London

Wyn Bowen
King's College London

Janina Dill
*London School of Economics;
University of Oxford*

Karl Eikenberry
*Stanford University,
U.S. Army, ret.*

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Lawrence Freedman
King's College London

Mervyn Frost
King's College London

James Gow
King's College London

Christopher Kinsey
King's College London

Patricia Lewis
Chatham House

Alexander Leveringhaus
University of Manchester

Scott D. Sagan
Stanford University

Benjamin Valentino
Dartmouth College

Heather Williams
King's College London



James Gow, Mervyn Frost, Christopher Kinsey, Janina Dill, and Karl Eikenberry

Revisiting Hiroshima in Iran: Real American Attitudes about Nuclear Weapons and Non-Combatant Immunity

November 30, 2016
Blavatnik School of Government, University of Oxford
Oxford, United Kingdom

On November 30, 2016, Scott D. Sagan spoke at the University of Oxford's Blavatnik School of Government about the New Dilemmas in Ethics, Technology, and War project. He discussed new survey findings that suggest that the U.S. pub-

lic continues to consider nuclear weapons as purely defensive weapons with a role to deter any potential attack from adversaries, and that the public seems to be against any possible active use of nuclear weapons in armed conflicts.

Speaker

Scott D. Sagan
Stanford University

Roundtables with the United Nations Department of Peacekeeping Operations

February 22, 2017 and April 28, 2017
UN Headquarters
New York, NY

On February 22 and April 28, 2017, the New Dilemmas in Ethics, Technology, and War project organized a series of roundtables with the UN Department of Peacekeeping Operations (UNDPKO). Project members discussed some of the policy implications for peacekeeping that were highlighted in their

Dædalus essays and engaged in discussions with representatives from UNDPKO and the UN Department of Political Affairs about the ethical implications of some of the issues that UN peace operations face in a context of changing warfare.

ROUNDTABLE ON "POPULATIONS, PERCEPTIONS, POWER, AND PEACE OPERATIONS"

Participants

Dirk Druet
UN Department of Political Affairs; formerly, UN Department of Peacekeeping Operations

Renata Dwan
UN Department of Peacekeeping Operations

Tanisha Fazal
University of Minnesota

Clare Lockhart
Institute for State Effectiveness

Kathryn Moffat
American Academy of Arts and Sciences

William Reno
Northwestern University

Scott D. Sagan
Stanford University

Jacob N. Shapiro
Princeton University

ROUNDTABLE ON "INTELLIGENCE IN UN PEACEKEEPING OPERATIONS"

Participants

Joseph H. Felter
Stanford University

David P. Fidler
Indiana University Maurer School of Law

Michael C. Horowitz
University of Pennsylvania

Naomi Miyashita
UN Department of Peacekeeping Operations

Kathryn Moffat
American Academy of Arts and Sciences



Participants at the roundtable on “Populations, Perceptions, Power, and Peace Operations”; panelists (back, left to right): William Reno, Clare Lockhart, Jacob N. Shapiro, Tanisha Fazal, Scott D. Sagan, and Renata Dwan

2017 Distinguished Morton L. Mandel Annual Public Lecture

Ethics and the Global War on Terror: Can Conflicts with Non-State Actors Be Fought in a Just Way?

March 8, 2017
American Academy
Cambridge, MA

On March 8, 2017, the Academy hosted a panel discussion about the ethical challenges posed by the long, intense, and enduring conflicts between states and non-state actors in the twenty-first century, of which ISIL’s declaration of an “Islamic caliphate” in Syria and Iraq is just the latest chap-

ter. The meeting was live-streamed and local discussions for members and other guests were held at The George Washington University, Stanford University, the University of Notre Dame, the United States Air Force Academy, and the United States Military Academy at West Point.

**Speakers and
Discussion Leaders**

Gabriella Blum
Harvard University

Paul Bolt
U.S. Air Force Academy

Reuben Brigety II
The George Washington University; formerly, U.S. Department of State

Neta Crawford
Boston University

Tanisha Fazal
University of Minnesota

Jennifer Leaning
Harvard University

Janne Nolan
The George Washington University

Graham Parsons
U.S. Military Academy at West Point

Allen S. Weiner
Stanford University

Paul Wise
Stanford University



Gabriella Blum, Allen Weiner, Jennifer Leaning, and Neta Crawford

New Dilemmas in Ethics, Technology, and War Workshop

April 24, 2017
United States Air Force Academy
Denver, CO

On April 24, 2017, the Academy co-hosted a workshop with the United States Air Force Academy (USAFA) and the Center for International Security and Cooperation at Stanford University. The workshop, which included approximately 120 faculty and students from the USAFA, the University of Denver, and

Colorado College, featured presentations by several project contributors, breakout discussions, and a plenary meeting to identify new research questions. On the following day, Scott Sagan and C. Robert Kehler gave a guest lecture and participated in an additional roundtable discussion with cadets.

Participants

Sannia Abdullah
Sandia National Laboratories

Antonia Chayes
*Tufts University; formerly,
U.S. Air Force*

David C. Hendrickson
Colorado College

Michelle D. Johnson
U.S. Air Force Academy

C. Robert Kehler
U.S. Air Force, ret.

Linell Letendre
U.S. Air Force Academy

Michael Martindale
U.S. Air Force Academy

Chris Miller
*U.S. Air Force, ret. ;
U.S. Air Force Academy*

Scott D. Sagan
Stanford University

Laura Ford Savarese
Yale Law School



Participants listen as C. Robert Kehler responds to comments from discussants Michael Martindale and Sannia Abdullah.

PROJECT THE GLOBAL NUCLEAR FUTURE

The Global Nuclear Future (GNF) Initiative is an interdisciplinary and multinational project that is seeking to engage nuclear newcomers in conversations on nuclear safety, security, and nonproliferation.

As an increasing number of countries today explores the possibility of establishing nuclear power plants to meet the mounting energy needs of a growing population, it is important for the nuclear policy community worldwide to assist these countries in developing responsible nuclear programs in accordance with international standards of regulation and governance. The GNF project brings together diverse communities, including leading experts from academia, government, nongovernmental organizations, and the nuclear industry, to foster dialogue and debate with and among nuclear newcomers and encourage transparency and international cooperation.

The GNF Initiative has focused its work in three main areas:

- 1) developing regional networks of knowledge in Southeast Asia and the Middle East that could assist nuclear newcomers and nuclear aspirant countries in developing a safe, secure, and proliferation-resistant program;
- 2) identifying the best strategies and policies to manage the nuclear fuel cycle, including the back-end of the nuclear fuel cycle and the transfer and governance of dual-use technology;
- 3) identifying possible strategies to minimize the risks of insider threats within nuclear laboratories and power plants.

Some of the project’s activities include convening nuclear experts and scholars, with the objective of promoting dialogue among regional players; hosting policy briefings and consultations with government officials and representatives of the nuclear industry; and commissioning papers and publications, often co-authored by regional experts, to enhance academic cooperation and nurture interstate intellectual exchanges.

Project Chairs

Steven E. Miller
Harvard Kennedy School

Robert Rosner
University of Chicago

Senior Advisor

Scott D. Sagan
Stanford University

Project Advisors

Richard A. Meserve
Covington & Burling LLP;
formerly, Carnegie Institution
for Science

Sam Nunn
Nuclear Threat Initiative

George Perkovich
Carnegie Endowment for
International Peace

William J. Perry
Stanford University

William Potter
Middlebury Institute of
International Studies at Monterey

John W. Rowe
Exelon Corporation, ret.

George P. Shultz
Stanford University

Project Staff

Francesca Giovannini

Kathryn Moffat

Funders

Carnegie Corporation of
New York

Flora Family Foundation

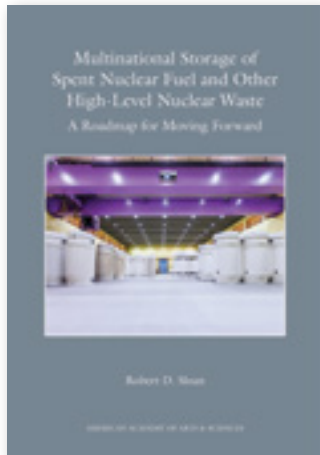
The William and Flora Hewlett
Foundation

The Kavli Foundation

John D. and Catherine T.
MacArthur Foundation

Alfred P. Sloan Foundation

PROJECT PUBLICATIONS \ THE GLOBAL NUCLEAR FUTURE



Multinational Storage of Spent Nuclear Fuel and Other High-Level Nuclear Waste: A Roadmap for Moving Forward
Robert D. Sloan (American Academy of Arts and Sciences, 2017)

Insider Threats
edited by Matthew Bunn and Scott D. Sagan (Cornell University Press, 2017)

Governance of Dual-Use Technologies: Theory and Practice
edited by Elisa D. Harris (American Academy of Arts and Sciences, 2016)



The Back-End of the Nuclear Fuel Cycle: Establishing a Viable Roadmap for a Multilateral Interim Storage Facility
Robert Rosner, Lenka Kollar, and James P. Malone (American Academy of Arts and Sciences, 2015)

Nuclear Power in Vietnam: International Responses and Future Prospects
Tanya Ogilvie-White (American Academy of Arts and Sciences, 2014)



Nuclear Liability: A Key Component of the Public Policy Decision to Deploy Nuclear Energy in Southeast Asia
Mohit Abraham (American Academy of Arts and Sciences, 2014)

A Worst Practices Guide to Insider Threats: Lessons from Past Mistakes
Matthew Bunn and Scott D. Sagan (American Academy of Arts and Sciences, 2014)

Lessons Learned from “Lessons Learned”: The Evolution of Nuclear Power Safety after Accidents and Near-Accidents
Edward D. Blandford and Michael M. May (American Academy of Arts and Sciences, 2012)

Nuclear Collisions: Discord, Reform & the Nuclear Non-proliferation Regime
essay by Steven E. Miller, with responses by Wael Al-Assad, Jayantha Dhanapala, C. Raja Mohan, and Ta Minh Tuan (American Academy of Arts and Sciences, 2012)

The Back-End of the Nuclear Fuel Cycle: An Innovative Storage Concept
Stephen M. Goldberg, Robert Rosner, and James P. Malone (American Academy of Arts and Sciences, 2012)

Game Changers for Nuclear Energy
Kate Marvel and Michael May (American Academy of Arts and Sciences, 2011)

Nuclear Reactors: Generation to Generation
Stephen M. Goldberg and Robert Rosner (American Academy of Arts and Sciences, 2011)

Challenges to the NPT Review Conference: Lessons from the Past; Opportunities for the Future
(confidential report, May 2010)

Nuclear Energy in the Middle East: Implications, Challenges, Opportunities
(American Academy of Arts and Sciences, 2010)

Multinational Approaches to the Nuclear Fuel Cycle
Charles McCombie & Thomas Isaacs, Noramly Bin Muslim, Tariq Rauf, Atsuyuki Suzuki, Frank von Hippel, and Ellen Tauscher (American Academy of Arts and Sciences, 2010)

Shared Responsibilities for Nuclear Disarmament: A Global Debate
essay by Scott D. Sagan, with responses by James M. Acton, Jayantha Dhanapala, Mustafa Kibaroglu, Harald Müller, Yukio Satoh, Mohamed I. Shaker, and Achilles Zaluvar (American Academy of Arts and Sciences, 2010)

“On the Global Nuclear Future,” vols. 1 – 2, *Dædalus* edited by Steven E. Miller and Scott D. Sagan (Fall 2009 and Winter 2010)

PROJECT MEETINGS // THE GLOBAL NUCLEAR FUTURE

Insider Threats: A Worst Practices Guide to Preventing Insider Leaks, Attacks, Theft, and Sabotage

May 10, 2017
Center for Strategic and International Studies
Washington, D.C.

On May 10, 2017, the Global Nuclear Future Initiative, in collaboration with the Center for Strategic and International Studies, hosted a book launch event for *Insider Threats*. Scott D. Sagan and Matthew Bunn outlined cognitive and organizational biases that lead organizations to downplay an insider

threat, and highlighted worst practices from these past mistakes. Following the event, Professors Bunn and Sagan met with representatives from the National Nuclear Security Administration.

Speakers

Matthew Bunn
Harvard University

Rolf Mowatt-Larssen
Harvard University

Scott D. Sagan
Stanford University

Sharon Squassoni
Center for Strategic and
International Studies



Sharon Squassoni, Scott D. Sagan, Matthew Bunn, and Rolf Mowatt-Larssen

Briefings at Lawrence Livermore National Laboratory

May 15, 2017
Lawrence Livermore National Laboratory
Livermore, CA

On May 15, 2017, Matthew Bunn and Scott D. Sagan presented key findings from their new book *Insider Threats* to staff at Lawrence Livermore National Laboratory, which had adopted an

earlier GNF Occasional Paper, *A Worst Practices Guide to Insider Threats: Lessons from Past Mistakes*, as a training document.

Speakers

Matthew Bunn
Harvard University

Scott D. Sagan
Stanford University

Book Launch Event

May 16, 2017

Center for International Security and Cooperation
Stanford University

On May 16, 2017, during an event at the Center for International Security and Cooperation at Stanford University, Matthew Bunn and Scott D. Sagan presented their new book,

Insider Threats, produced as part of the Global Nuclear Future Initiative and published by Cornell University Press.

Speakers

Matthew Bunn
Harvard University

Scott D. Sagan
Stanford University

PROJECT CIVIL WARS, VIOLENCE, AND INTERNATIONAL RESPONSES

This project follows from the observation that the existing frameworks used by the United States to address civil wars and states plagued with internal violence are insufficient and outdated, and therefore the responses are often ineffective. Moreover, the risks and threats associated with civil wars and state disorder affect more than just the state in question; civil wars often carry adverse consequences for regional stability and can and do affect the rich and developed nations of the world. The scholarship produced by this project, which will be pub-

lished in two issues of *Dædalus*, examines why it is so difficult to end civil wars and state disorder and highlights the risks and possible policy prescriptions. Project participants will travel to Ethiopia, Sri Lanka, and several other strategically chosen locations to discuss their findings with government leaders, decision-makers, academics, heads of nongovernmental organizations, and journalists, among others. These discussions will help shape a white paper that will be used to inform policymakers in Washington, D.C. and the international community.

Project Chairs

Karl Eikenberry
Stanford University;
U.S. Army, ret.

Stephen D. Krasner
Stanford University

Charles Call
American University

Susanna Campbell
American University

Martha Crenshaw
Stanford University

Sumit Ganguly
Indiana University

Miguel García-Sánchez
Universidad de los Andes

Richard Gowan
New York University

Stathis Kalyvas
Yale University

Nancy Lindborg
United States Institute of Peace

Sarah Kenyon Lischer
Wake Forest University

Project Members

Michele Barry
Stanford University

Abdeta Dribssa Beyene
Institute for Advanced Research,
Ethiopia

Stephen D. Biddle
Council on Foreign Relations;
George Washington University

Tanja A. Börzel
Freie Universität Berlin

Lyse Doucet
BBC News

Tanisha Fazal
University of Minnesota

James Fearon
Stanford University

Vanda Felbab-Brown
Brookings Institution

Francis Fukuyama
Stanford University

Sonja Grimm
University of Konstanz

Jean-Marie Guéhenno
International Crisis Group

Joseph Hewitt
United States Institute of Peace

Stephen Heydemann
Smith College

Bruce Jones
Brookings Institution

Clare Lockhart
Institute for State Effectiveness

Aila M. Matanock
University of California, Berkeley

Seyoum Mesfin
Institute for Advanced Research,
Ethiopia

Stewart Patrick
Council on Foreign Relations

Barry Posen
Massachusetts Institute of
Technology

CIVIL WARS, VIOLENCE, AND INTERNATIONAL RESPONSES, *continued*

William Reno
Northwestern University

Thomas Risse
Freie Universität Berlin

Hendrik Spruyt
Northwestern University

Stephen J. Stedman
Stanford University

Eric Stollenwerk
Freie Universität Berlin

Paul H. Wise
Stanford University

Project Staff

Francesca Giovannini

Summers Hammel

Funders

Humanity United

Smith Richardson Foundation

Oak Foundation

PROJECT PUBLICATIONS \\ CIVIL WARS, VIOLENCE, AND INTERNATIONAL RESPONSES

“Civil Wars & Global Disorder: Threats & Opportunities,” *Dædalus* (Fall 2017)

“Ending Civil Wars: Constraints & Possibilities,” *Dædalus* (Winter 2018)

PROJECT MEETINGS \\ CIVIL WARS, VIOLENCE, AND INTERNATIONAL RESPONSES

Civil Wars, Violence, and International Responses Authors' Workshop

November 2–4, 2016
American Academy
Cambridge, MA

Project participants and other experts gathered at the House of the Academy to discuss draft essays for two forthcoming issues of *Dædalus* and explore project outreach strategies.

Participants

Phyllis S. Bendell
American Academy of Arts and Sciences

Abdeta Beyene
Institute for Advance Research, Addis Ababa, Ethiopia

Stephen Biddle
George Washington University

Charles T. Call
American University

Susanna P. Campbell
American University

Michael E. Capuano
U.S. House of Representatives

Alexa Courtney
Frontier Design Group, LLC

Martha Crenshaw
Stanford University

Lyse Doucet
BBC News

Karl Eikenberry
Stanford University; U.S. Army, ret.

Jonathan F. Fanton
American Academy of Arts and Sciences

Tanisha Fazal
University of Minnesota

James D. Fearon
Stanford University

Vanda Felbab-Brown
Brookings Institution

Francis Fukuyama
Stanford University

Sumit Ganguly
Indiana University

Miguel García Sánchez
Universidad de los Andes

Francesca Giovannini
American Academy of Arts and Sciences

Richard Gowan
New York University

Jean-Marie Guéhenno
International Crisis Group

Summers Hammel
American Academy of Arts and Sciences

Steven Heydemann
Smith College

Bruce Jones
Brookings Institution

Stathis N. Kalyvas
Yale University

Stephen D. Krasner
Stanford University

Nancy Lindborg
United States Institute of Peace

Sarah Kenyon Lischer
Wake Forest University

Clare Lockhart
Institute for State Effectiveness

Aila M. Matanock
University of California, Berkeley

Heather Mawhiney
American Academy of Arts and Sciences

John Mulholland
U.S. Army, ret.

CIVIL WARS, VIOLENCE, AND INTERNATIONAL RESPONSES AUTHORS' WORKSHOP, *continued*

Stewart Patrick
Council on Foreign Relations

Anne W. Patterson
*formerly, U.S. Department
of State*

Barry Posen
*Massachusetts Institute of
Technology*

E. Candace Putnam
*formerly, U.S. Department
of State*

William Reno
Northwestern University

Hendrik Spruyt
Northwestern University

Stephen J. Stedman
Stanford University

Eric Stollenwerk
Freie Universität Berlin

David Staples
U.S. Department of State

Chris Stone
Open Society Foundations

Peter Walton
*American Academy of Arts
and Sciences*

Paul H. Wise
Stanford University

Belinda A. Yeomans
Stanford University



Participants at the authors' workshop on Civil Wars, Violence, and International Responses



Academy President **Jonathan Fanton** and former Assistant Secretary of State for Near Eastern Affairs **Anne Patterson**

Briefings in London on Civil Wars, Violence, and International Responses

November 28–29, 2016
London, United Kingdom

Ambassador Karl Eikenberry met with representatives of the International Institute for Strategic Studies, Chatham House, the Royal United Services Institute, and the British Academy

to discuss the project on Civil Wars, Violence, and International Responses and its goals and to explore collaborative outreach activities.

PROJECT UNDERSTANDING THE NEW NUCLEAR AGE

Understanding the New Nuclear Age will examine the challenges and opportunities presented by the changing nuclear age. The global nuclear order today is transforming along three main dimensions: 1) The nuclear posture of several nuclear weapons states has changed because of the possibility of the use of nuclear weapons in war fighting; 2) technological innovations (in the space and cyber realm in particular, although not exclusively) are impacting existing nuclear arrangements (including the extended deterrence architecture and strategic stability); and 3) the changes in the current global nuclear order affect the prospects for nuclear arms control in a multi-polar world.

In the first phase, the project is examining a new framework for the contemporary nuclear age. A working group has discussed five commissioned papers on key questions related to the current role that nuclear weapons play in global security.

Among the topics discussed in the papers are: 1) the prospects for future arms control deals between Russia and the United States; 2) the conditions that make the use of nuclear weapons increasingly plausible in today's world; and 3) the increased complexity of nuclear deterrence among multiple nuclear weapons states. In the second phase, the Academy will invite nuclear scholars from selected nuclear weapons states countries to comment on the commissioned papers. The papers and the commentaries will be published in three forthcoming Occasional Papers, which will be used to engage with policy-makers in the United States. In the third phase, the project will publish a special issue of *Dædalus* on the changing nuclear order. In addition, the project will collaborate with high schools and universities in the United States to develop curricula on nuclear related topics to raise awareness on the enduring risks of nuclear weapons.

Project Chair

Robert Legvold
Columbia University

Project Advisers

Steven Miller
Harvard Kennedy School

Barry Posen
Massachusetts Institute of Technology

Scott D. Sagan
Stanford University

Nina Tannenwald
Brown University

Working Group Members

James M. Acton
Carnegie Endowment for International Peace

Mark Bell
University of Minnesota

Linton Brooks
Center for Strategic and International Studies; formerly, U.S. Department of Energy and U.S. National Nuclear Security Administration

Lord Browne of Ladyton
Nuclear Threat Initiative; formerly, U.K. Ministry of Defense

Christopher Chyba
Princeton University

M. Taylor Fravel
Massachusetts Institute of Technology

Francis J. Gavin
Massachusetts Institute of Technology

Michael Krepon
Stimson Center

Hans Kristensen
Federation of American Scientists

Jessica Tuchman Mathews
Carnegie Endowment for International Peace

Nicholas Miller
Brown University

Steven Miller
Harvard Kennedy School

Vipin Narang
Massachusetts Institute of Technology

Janne Nolan
George Washington University

George Perkovich
Carnegie Endowment for International Peace

Steven Pifer
Brookings Institution; formerly, U.S. Department of State

UNDERSTANDING THE NEW NUCLEAR AGE, *continued*

William Potter

*James Martin Center for
Nonproliferation Studies,
Middlebury Institute of
International Studies at Monterey*

Mira Rapp-Hooper

*Center for a New American
Security*

Scott D. Sagan

Stanford University

Michael Swaine

*Carnegie Endowment for
International Peace*

Nina Tannenwald

Brown University

Jane Vaynman

Temple University

Project Staff

Francesca Giovannini

Kathryn Moffat

PROJECT MEETINGS \ UNDERSTANDING THE NEW NUCLEAR AGE

Working Group Meeting and Public Screening of *Command and Control:
The Unknown Story of the Day Our Luck Almost Ran Out*

September 18–19, 2016

American Academy
Cambridge, MA

On September 18–19, 2016, the Working Group of the Understanding the New Nuclear Age project discussed three papers commissioned for the project and began to develop an agenda for engagement with policy-makers and the public. The meet-

ing opened with a public screening and discussion of the documentary *Command and Control: The Unknown Story of the Day Our Luck Almost Ran Out*.

Participants

James M. Acton

*Carnegie Endowment for
International Peace*

Linton Brooks

*Center for Strategic and
International Studies; formerly,
U.S. Department of Energy and
U.S. National Nuclear Security
Administration*

Lord Browne of Ladyton

*Nuclear Threat Initiative;
formerly, U.K. Ministry of
Defense*

Jonathan F. Fanton

*American Academy of Arts
and Sciences*

Francis J. Gavin

*Massachusetts Institute of
Technology*

Francesca Giovannini

*American Academy of Arts
and Sciences*

Summers Hammel

*American Academy of Arts
and Sciences*

Robert Legvold

Columbia University

Jessica Tuchman Mathews

*Carnegie Endowment for
International Peace*

Nicholas Miller

Brown University

Steven Miller

Harvard Kennedy School

Kathryn Moffat

*American Academy of Arts
and Sciences*

Vipin Narang

*Massachusetts Institute of
Technology*

Janne Nolan

George Washington University

Reid Pauly

*Massachusetts Institute of
Technology*

William Potter

*James Martin Center for
Nonproliferation Studies,
Middlebury Institute of
International Studies at Monterey*

Mira Rapp-Hooper

*Center for a New American
Security*

Michael Swaine

*Carnegie Endowment for
International Peace*

Nina Tannenwald

Brown University



William Potter, Mira Rapp-Hooper, and Vipin Narang



James Acton, Nina Tannenwald, and Jessica Tuchman Mathews

Understanding the New Nuclear Age Working Group Meeting

December 19–20, 2016
American Academy
Cambridge, MA

On December 19–20, 2016, the Working Group of the Understanding the New Nuclear Age project discussed commissioned papers that investigate the changing relationships among nuclear weapons states, and began to identify next steps for the project, including a policy publication. The participants noted that the destabilizing effects of new military

capabilities, such as cyber and hypersonic weapons, coupled with growing mistrust among nuclear weapons states, are undermining the stability of the global nuclear order as it was originally conceived and leading dangerously to situations where the use of nuclear warheads might become a possibility.

Participants

James M. Acton
*Carnegie Endowment for
 International Peace*

Mark Bell
University of Minnesota

Linton Brooks
*Center for Strategic and
 International Studies; formerly,
 U.S. Department of Energy and
 U.S. National Nuclear Security
 Administration*

Christopher Chyba
Princeton University

Jonathan F. Fanton
*American Academy of Arts
 and Sciences*

Lawrence Freedman
King's College London

Francis J. Gavin
*Massachusetts Institute of
 Technology*

Francesca Giovannini
*American Academy of Arts
 and Sciences*

Nicholas Miller
Brown University

Steven Miller
Harvard Kennedy School

Kathryn Moffat
*American Academy of Arts
 and Sciences*

Vipin Narang
*Massachusetts Institute of
 Technology*

Janne Nolan
George Washington University

Steven Pifer
*Brookings Institution, formerly,
 U.S. Department of State*

Carl Robichaud
*Carnegie Corporation of
 New York*

Michael Swaine
*Carnegie Endowment for
 International Peace*

Nina Tannenwald
Brown University

Jane Vaynman
Temple University



Janne Nolan, Nicholas Miller, and Francis J. Gavin



Michael Swaine, Steven Pifer, and Jane Vaynman



Education and the Development of Knowledge

Projects in the Education and the Development of Knowledge program area inform policy and practice in support of high-quality, lifetime educational opportunities for all Americans. The program area continues the Academy’s enduring focus on the vital role education and knowledge development play in our nation and in our world. From advancing equitable educational outcomes to leveraging new developments in the learning sciences and digital technologies to questioning how domestic and international scholarly work may be affected by advances in machine learning, the Education and the Development of Knowledge program area – through commissions, projects, convenings, and publications – draws upon scholars and practitioners from various fields and disciplines to explore the conditions that foster the creation, transfer, and preservation of knowledge in a global context. More information about this program area is available on the Academy’s website at www.amacad.org/education.

PROJECT COMMISSION ON THE FUTURE OF UNDERGRADUATE EDUCATION

Undergraduate education continues to be one of the most important avenues of opportunity in American society. But the education landscape is changing rapidly: there are more options for how and when Americans receive some form of undergraduate education. New populations, for whom the traditional four-year degree was once an impossibility, can now pursue undergraduate education in two-year, four-year, for-profit, and online institutions, according to schedules that fit their own lives. And technological advances offer new approaches to student instruction and collaboration. At the same time, rising costs are challenging the affordability of traditional postsecondary degrees.

To address these topics and provide ideas for ensuring that individual Americans receive the education they need to thrive in the twenty-first century, the Academy established the Commission on the Future of Undergraduate Education with funding from Carnegie Corporation of New York. The Commission – whose members include national leaders in education, business, and government – is studying how well today’s students are served by the existing system and, more importantly, is identifying the challenges and opportunities that undergraduate education will encounter in the decades ahead. The project’s final report and recommendations are being released in late fall 2017.

Commission Chairs

Roger W. Ferguson, Jr.
TIAA

Michael S. McPherson
formerly, Spencer Foundation

Carl A. Cohn
California Collaborative for Educational Excellence

Mitchell E. Daniels, Jr.
Purdue University

John J. DeGioia
Georgetown University

Commission Members

Joseph E. Aoun
Northeastern University

Deborah Loewenberg Ball
University of Michigan

Sandy Baum
Urban Institute

Rebecca M. Blank
University of Wisconsin-Madison

John Seely Brown
formerly, Xerox PARC Research

Jonathan F. Fanton
American Academy of Arts and Sciences

Robert Hormats
Kissinger Associates; formerly, U.S. Department of State

Freeman A. Hrabowski III
University of Maryland, Baltimore County

Jennifer L. Jennings
New York University

Jeremy Johnson
Andela

Sherry Lansing
Sherry Lansing Foundation

Nicholas Lemann
Columbia University Graduate School of Journalism

J. Michael Locke
formerly, Rasmussen, Inc.

Monica Lozano
U.S. Hispanic Media; La Opinión

Gail O. Mellow
LaGuardia Community College

Diana Natalicio
University of Texas at El Paso

Hilary Pennington
Ford Foundation

Beverly Daniel Tatum
Spelman College

Shirley M. Tilghman
Princeton University

Michelle Weise
Southern New Hampshire University

Project Staff

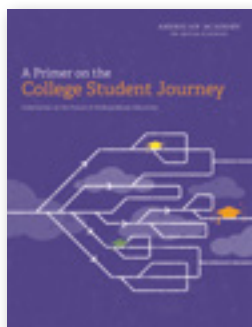
Francesca Purcell

Eliza Berg

Funder

Carnegie Corporation of New York

PROJECT PUBLICATIONS COMMISSION ON THE FUTURE OF UNDERGRADUATE EDUCATION



A Primer on the College Student Journey
(American Academy of Arts and Sciences, 2016)

Undergraduate Financial Aid in the United States
Judith Scott-Clayton, Columbia University (American Academy of Arts and Sciences, 2017)

The Complex Universe of Alternative Postsecondary Credentials and Pathways
Jessie Brown and Martin Kurzweil, Ithaca S+R (American Academy of Arts and Sciences, 2017)



PROJECT MEETINGS COMMISSION ON THE FUTURE OF UNDERGRADUATE EDUCATION

Congressional Visits in Washington, D.C.

September 13–14, 2016

October 3–4, 2016

March 30–31, 2017

Commission Cochair Michael McPherson and Director Francesca Purcell met with members of the U.S. Congress and their key legislative advisors to discuss the work of the Commission.

Student and Faculty Discussion Groups

Director Francesca Purcell and Program Associate Eliza Berg met with student and faculty groups to gather the groups' per-

spectives and discuss their concerns about the future of American undergraduate education.

September 15, 2016
Northeastern University
Boston, MA
Hosted by **President Joseph Aoun**

February 6, 2017
University of Texas, El Paso
El Paso, TX
Hosted by **President Diana Natalicio**

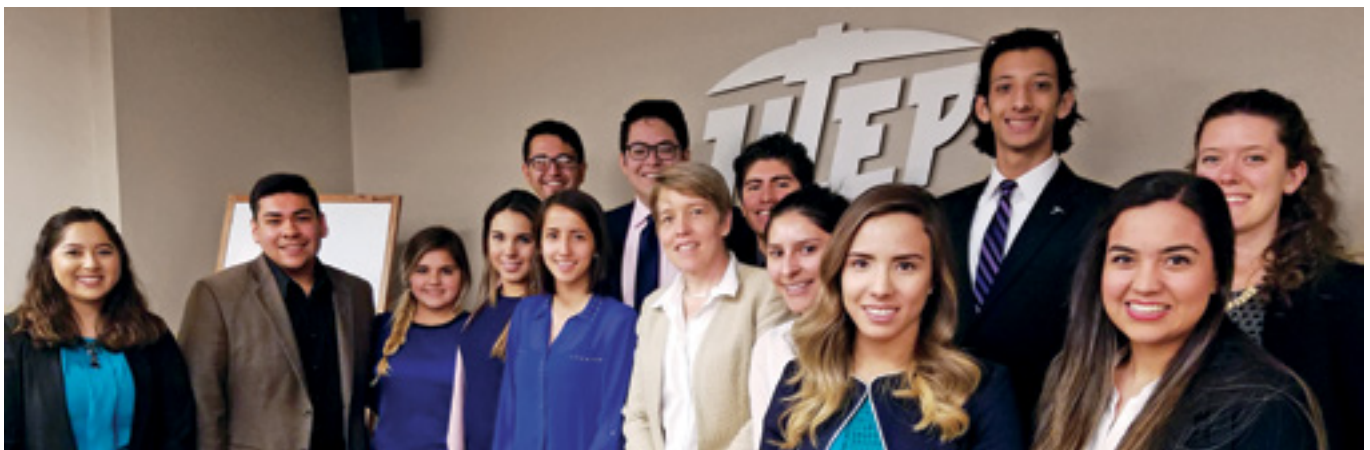
April 18, 2017
Eastern Connecticut State
University
Willimantic, CT
Hosted by **President Elsa Nuñez**

April 25, 2017
Rasmussen College
Chicago, IL
Hosted by **Senior Vice President of External and College Relations Tawnie Cortez**

September 20, 2016
LaGuardia Community
College
New York, NY
Hosted by **President Gail Mellow**

April 11, 2017
Babson College
Wellesley, MA
Hosted by **President Kerry Healey**

April 24, 2017
University of Wisconsin-
Madison
Madison, WI
Hosted by **Chancellor Rebecca Blank**



Students at the University of Texas, El Paso with Commission project staff

Meetings with Academy Members and Affiliates

Commission members met with groups of Academy members to discuss the work of the Commission.

November 13, 2016
Los Angeles, CA

December 12, 2016
New York, NY
Hosted by **Glenn Hutchins**
(North Island; Silver Lake)

February 7, 2017
Austin, TX
Hosted by **Larry Faulkner**
(University of Texas at
Austin)

April 19, 2017
Cambridge, MA

Outreach Meetings with Higher Education Organizations

March 20, 2017
Boulder, CO

Commission Cochair Michael McPherson and Director Francesca Purcell met with representatives of several higher education organizations, including the State Higher Education Executive Officers, the National Center for Higher Education Management Systems, and the Western Interstate Commission for Higher Education.

June 13, 2017
Aspen Meadows, CO

Commission Chairs Michael S. McPherson and Roger W. Ferguson, Jr. spoke about the future of undergraduate education at the Forum for the Future of Higher Education.

May 9–10, 2017
Washington, D.C.

Commission members met with representatives of several national higher education organizations, including the Association of American Universities, the Association of Public and Land-grant Universities, the National Association of Independent Colleges and Universities, the American Association of Community Colleges, the American Council on Education, and the American Association of State Colleges and Universities.

Roundtable Discussions

March 21, 2017
Boulder, CO

Commission members met with educational technology experts, including **David Figlio** (Northwestern University), **Charles Isbell** (Georgia Institute of Technology), **Stephen Kosslyn** (Minerva Schools at KGI), and **Peter Smith** (University of Maryland University College), about the role of technology and online programs in undergraduate education.

March 29, 2017
Washington, D.C.

Commission members met with experts on higher education workforce partnerships, including **Wes Bush** (Northrop Grumman), **Brian Fitzgerald** (The Business-Higher Education Forum), **Dane Linn** (Business Roundtable), and **Stan Litow** (IBM), about ways for the business community to support underserved students and specific examples of programs that could be scaled or replicated.

Third Meeting of the Commission on the Future of Undergraduate Education

November 14, 2016
Los Angeles, CA

Commission members analyzed the compilation of drafts created from months of small-group writing and focused conference calls. Commissioners affirmed and discussed the crucial

role undergraduate education plays and will continue to play in the country's economy and democracy.

Fourth and Final Commission meeting

June 7, 2017
New York, NY

Commission members reviewed and discussed a penultimate draft of the final report and recommendations.



Wes Bush, Dane Linn, Stan Litow, and Brian Fitzgerald

PROJECT

THE LINCOLN PROJECT: EXCELLENCE AND ACCESS IN PUBLIC HIGHER EDUCATION

The Academy established the Lincoln Project to study the importance of public research universities, analyze economic trends affecting their operation, and recommend new strategies to sustain and strengthen these critical institutions. In regional forums held around the country, the Lincoln Project has reached out to 145 public research universities and brought together local leaders representing public higher education, government, policy, business, and philanthropy to identify common concerns and advance innovative initiatives. Some of the topics discussed at these forums include:

- How public universities can address financial challenges while fulfilling their commitment to providing an accessible and affordable undergraduate education;
- How public universities can better measure and communicate the benefits for all residents – in terms of quality of life, cultural infrastructure, and direct economic benefits – of state investment in higher education; and
- What role the federal government, the business sector, and philanthropy should play in sustaining the excellence of America’s public research universities.

The project has published five publications that provide an overview of the current financial challenges as well as the significant achievements of public research universities.

On April 7, 2016, the project released its fifth and final publication, *Public Research Universities: Recommitting to Lincoln’s Vision – An Educational Compact for the 21st Century*. The final report provides recommendations for stabilizing and strengthening the nation’s public research universities. *An Educational Compact for the 21st Century* recommends that public research universities pursue new revenue streams and cultivate partners from across the private and public sectors. Most importantly, the report formulates a new educational compact – a call for state and federal governments, universities, businesses, and philanthropic organizations to come together in support of America’s public research universities.

In the past year, the Lincoln Project has hosted regional dialogues and events around the country with leaders in higher education and with policy-makers at the state, regional, and federal levels to discuss the challenges and opportunities facing public higher education.

Project Chairs

Robert J. Birgeneau
University of California, Berkeley

Mary Sue Coleman
Association of American Universities

Jonathan R. Cole
Columbia University

Gray Davis
former Governor of California

J. Patrick Doyle
Domino’s Pizza, Inc.

Michael Hout
New York University

Kay Bailey Hutchison
former United States Senator, Texas

Thomas Siebel
C3; First Virtual Group

Shirley M. Tilghman
Princeton University

Phyllis M. Wise
Colorado Longitudinal Study

Project Advisors

Lawrence S. Bacow
Harvard Kennedy School

Gene D. Block
University of California, Los Angeles

Henry E. Brady
University of California, Berkeley

Philip Bredesen
former Governor of Tennessee

Nancy Cantor
Rutgers University – Newark

John T. Casteen III
University of Virginia

E. Gordon Gee
West Virginia University

Matthew Goldstein
The City University of New York

Donald Graham
Graham Holdings Company

Carl Guardino
Silicon Valley Leadership Group

Robert D. Haas
Levi Strauss & Co.

Jim Hackett
Ford Smart Mobility, LLC

Ann Weaver Hart
University of Arizona

Jim Leach
University of Iowa

Earl Lewis
The Andrew W. Mellon Foundation

Ann Marie Lipinski
Nieman Foundation for Journalism at Harvard

George Miller
former United States Representative, California

William Powers, Jr.
University of Texas at Austin

John Rogers
Ariel Investments

Frank Yeary
CamberView Partners LLC; formerly, University of California, Berkeley

Pauline Yu
American Council of Learned Societies

Project Staff

Eliza Berg

John Tessitore

THE LINCOLN PROJECT, *continued*

Funders

*Carnegie Corporation of
New York*

Robert and Colleen Haas

*The William and Flora Hewlett
Foundation*

*Thomas and Stacey Siebel
Foundation*

The Spencer Foundation

PROJECT PUBLICATIONS \ \ THE LINCOLN PROJECT



Public Research Universities: Why They Matter
(American Academy of Arts and Sciences, 2015)

Public Research Universities: Changes in State Funding
(American Academy of Arts and Sciences, 2015)

*Public Research Universities: Understanding the
Financial Model*
(American Academy of Arts and Sciences, 2016)

Public Research Universities: Serving the Public Good
(American Academy of Arts and Sciences, 2016)

*Public Research Universities: Recommitting to Lincoln's Vision:
An Educational Compact for the 21st Century*
(American Academy of Arts and Sciences, 2016)

PROJECT MEETINGS \ \ THE LINCOLN PROJECT

July 28, 2016
Chapel Hill, NC

Philip Bredesen (former Governor of Tennessee) presented the findings of the Lincoln Project at a board meeting at the University of North Carolina.

August 5, 2016
Sacramento, CA

Robert Birgeneau (University of California, Berkeley) discussed the findings of the Lincoln Project with Sacramento Legislative Staff.

August 23, 2016
Seattle, WA

Michael Hout (New York University) presented the findings of the Lincoln Project at the Annual Meeting of the American Sociological Association.

September 8, 2016
Berkeley, CA

Robert Birgeneau (University of California, Berkeley) and Henry Brady (University of California, Berkeley) discussed the findings of the Lincoln Project at a meeting hosted by the Center for Studies in Higher Education at the University of California, Berkeley.

PROJECT MEETINGS \ THE LINCOLN PROJECT, *continued*

October 6, 2016
Cambridge, MA

Project meeting.

November 13, 2016
Austin, TX

Kay Bailey Hutchison (former United States Senator, Texas) discussed the findings of the Lincoln Project at the Annual Meeting of the Association of Public and Land-grant Universities.

December 14, 2016
Madison, WI

University of Wisconsin-Madison Chancellor Rebecca Blank hosted a regional dialogue about the Lincoln Project.

January 22, 2017
Naples, FL

Robert Birgeneau (University of California, Berkeley), Mary Sue Coleman (Association of American Universities), Earl Lewis (The Andrew W. Mellon Foundation), and George Miller (former United States Representative, California) presented the findings of the Lincoln Project at the opening panel for the Association of Governing Boards' 2017 Foundation Leadership Forum.

March 9-10, 2017
Des Moines and Iowa City, IA

Mary Sue Coleman (Association of American Universities), Phyllis Wise (Colorado Longitudinal Study), Jim Leach (University of Iowa), and Bruce Harreld (University of Iowa) participated in a public forum hosted by the University of Iowa. Lincoln Project members also participated in a roundtable discussion with state legislators, including Iowa Governor Terry Branstad.

April 25, 2017
Springfield, IL

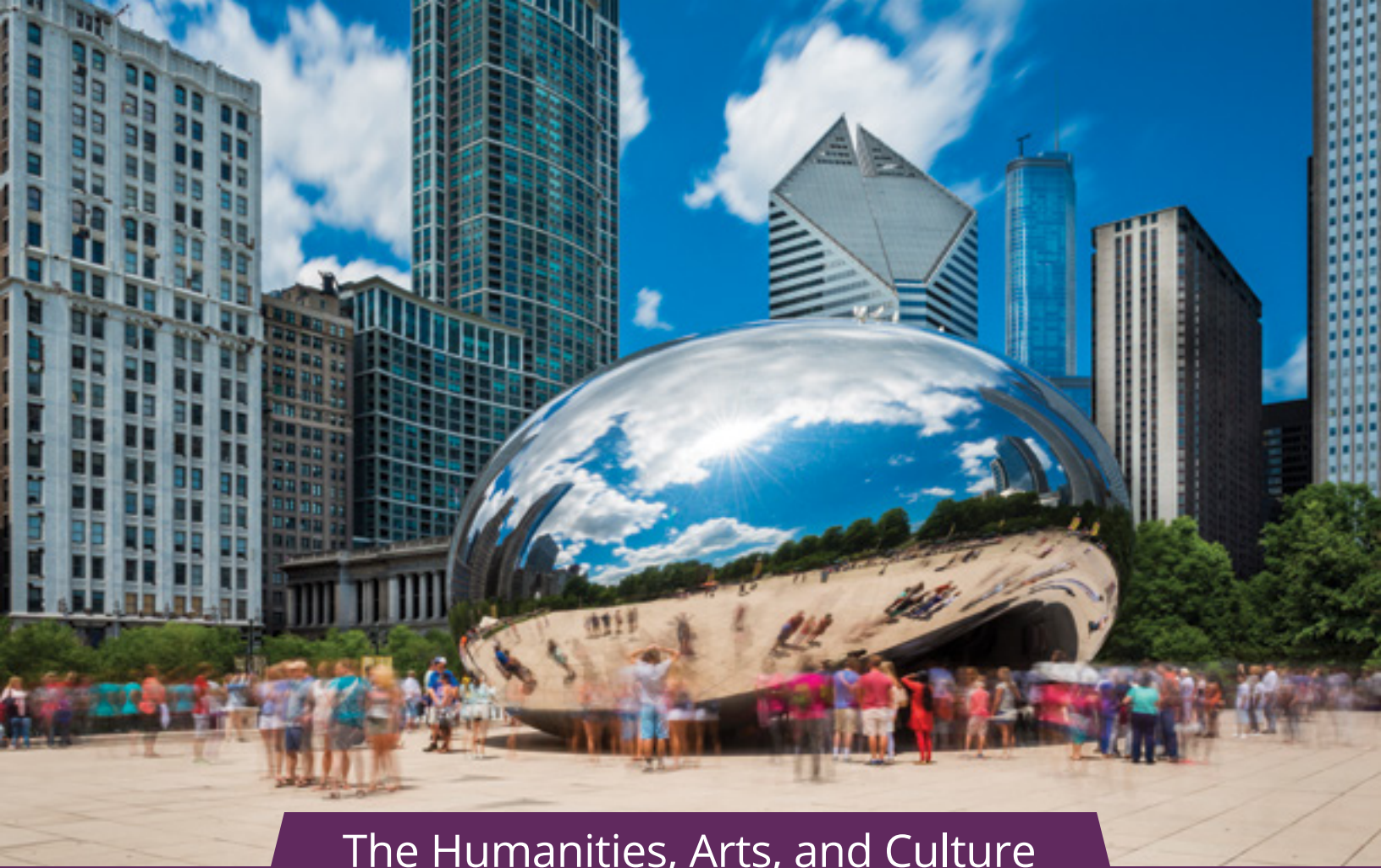
Lincoln Project members participated in a regional dialogue with state legislators, hosted by the University of Illinois.

May 2, 2017
Seattle, WA

Robert Birgeneau (University of California, Berkeley), Daniel Greenstein (Bill and Melinda Gates Foundation), Christine Gregoire (former Washington State Governor), and Kirk Schulz (Washington State University) participated in a regional dialogue hosted by the University of Washington.



Robert Birgeneau presents at a Symposium on the Lincoln Project, hosted by the University of Washington.



The Humanities, Arts, and Culture

The American Academy was founded to promote the pursuit of knowledge and the education of citizens in all fields of knowledge. Since 1780, the Academy has advocated for the importance of the humanities, arts, and culture in American society, and has called on both private citizens and the nation's government to help foster advances in these areas.

Today, the Academy conducts research and develops policy recommendations to advance the humanities in academic scholarship and in the public sector, to display the importance of the arts in society, and to enrich the nation's cultural life. By bringing together scholars, artists, and leaders from both the public and private sectors, Academy programs in the Humanities, Arts, and Culture put practitioners and scholars in conversation with individuals from other disciplines, ensuring that the arts and humanities are valued in all areas of civic life. Projects in this area demonstrate the value of the arts, humanities, and culture to the nation's security and prosperity, and call attention to the role played by work in these fields to enriching the health of communities and the daily lives of its citizens. More information about this program area is available on the Academy's website at www.amacad.org/humanities-arts-culture.

PROJECT COMMISSION ON LANGUAGE LEARNING

In 2014, a bipartisan group of members of Congress asked the American Academy of Arts and Sciences to undertake a new study of the nation’s language education needs. Four members of the United States Senate – Tammy Baldwin (D-Wisconsin), Mark Kirk (R-Illinois), Orrin Hatch (R-Utah), and Brian Schatz (D-Hawaii) – and four members of the House of Representatives – Rush Holt (D-New Jersey), Leonard Lance (R-New Jersey), David Price (D-North Carolina), and Don Young (R-Alaska) – signed two letters requesting that the Academy provide answers to the following questions:

How does language learning influence economic growth, cultural diplomacy, the productivity of future generations, and the fulfillment of all Americans? What actions should the nation take to ensure excellence in all languages as well as international education and research, including how we may more effectively use current resources to advance language attainment?

In response to this request, the Academy created the Commission on Language Learning. The Commission’s final report,

America’s Languages: Investing in Language Education for the 21st Century, offers concrete recommendations to improve access to as many languages as possible, for people of every age, ethnicity, and socioeconomic background.

On February 28, 2017, the day of the public release of *America’s Languages*, Representative David Price (D-North Carolina) introduced the World Language Advancement and Readiness Act, a bill cosigned by Don Young (R-Alaska), Leonard Lance (R-New Jersey), and thirteen of their colleagues. The act proposes three-year competitive grants to support local and state school districts that want to establish, improve, or expand innovative programs in world language learning. In addition, Representative Price organized a “Dear Colleague” letter, ultimately signed by sixty-five Members of Congress, which references *America’s Languages* in its defense of federal funding for Title VI education programs and Fulbright-Hays Fellowships. Senator Brian Schatz (D-Hawaii) organized a similar letter signed by twenty-three Senators.

Commission Chair

Paul LeClerc
*Columbia Global Center-Paris,
Columbia University*

Dan E. Davidson
*American Councils for
International Education;
Bryn Mawr College*

Commission Members

Martha G. Abbot
*American Council on the Teaching
of Foreign Languages*

Nicholas B. Dirks
University of California, Berkeley

Mark Aronoff
Stony Brook University

Brian T. Edwards
Northwestern University

Jessie “little doe” Baird
*Wópanáak Language
Reclamation Project*

Karl Eikenberry
*Stanford University;
U.S. Army, ret.*

David Chu
Institute for Defense Analyses

Rosemary G. Feal
*Modern Language Association
of America*

Carol Gluck
Columbia University

Nancy McEldowney
*Foreign Service Institute,
U.S. Department of State*

Philip Rubin
*Haskins Laboratories; formerly,
White House Office of Science
and Technology Policy*

Rubén G. Rumbaut
University of California, Irvine

Marta Tienda
Princeton University

Kenneth L. Wallach
Central National Gottesman Inc.

Diane P. Wood
*U.S. Court of Appeals,
Seventh Circuit*

Pauline Yu
*American Council of
Learned Societies*

Project Staff

John Tessitore

Julian Kronick

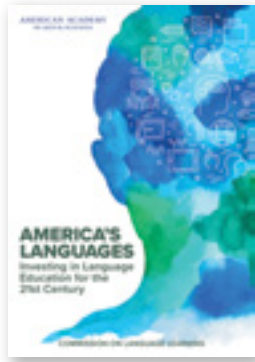
Esha Senchaudhuri

Funders

Henry Luce Foundation

*The Andrew W. Mellon
Foundation*

PROJECT PUBLICATIONS \ COMMISSION ON LANGUAGE LEARNING



America's Languages: Investing in Language Education for the 21st Century
(American Academy of Arts and Sciences, 2017)

The State of Languages in the U.S.: A Statistical Portrait
(American Academy of Arts and Sciences, 2016)

PROJECT MEETINGS \ COMMISSION ON LANGUAGE LEARNING

Final Commission Meeting

November 14, 2016
American Academy
Cambridge, MA

Participants

Martha G. Abbott
American Council on the Teaching of Foreign Languages

Jessie 'little doe' Baird
Wópanáak Language Reclamation Project

David Chu
Institute for Defense Analyses

Dan E. Davidson
American Councils for International Education; Bryn Mawr College

Brian T. Edwards
Northwestern University

Rosemary G. Feal
Modern Language Association of America

Paul LeClerc
Columbia Global Center-Paris, Columbia University

Nancy McEldowney
Foreign Service Institute, U.S. Department of State

Philip Rubin
Haskins Laboratories

Rubén G. Rumbaut
University of California, Irvine

Esha Senchaudhuri
American Academy of Arts and Sciences

John Tessitore
American Academy of Arts and Sciences

Kenneth L. Wallach
Central National Gottesman Inc.

Diane P. Wood
U.S. Court of Appeals, Seventh Circuit

Press Conference and Rollout of the Language Commission's Final Report

February 28, 2017
National Press Club
Washington, D.C.

Participants

Martha G. Abbott
*American Council on the Teaching
of Foreign Languages*

Mark Aronoff
Stony Brook University

Jessie “little doe” Baird
*Wôpanâak Language
Reclamation Project*

Dan E. Davidson
*American Councils for
International Education;
Bryn Mawr College*

Brian T. Edwards
Northwestern University

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Rosemary G. Feal
*Modern Language Association
of America*

Carol Gluck
Columbia University

Paul LeClerc
*Columbia Global Center-Paris,
Columbia University*

Nancy McEldowney
*Foreign Service Institute,
U.S. Department of State*

Rubén G. Rumbaut
University of California, Irvine

Esha Senchaudhuri
*American Academy of Arts
and Sciences*

John Tessitore
*American Academy of Arts
and Sciences*

Kenneth L. Wallach
Central National Gottesman Inc.



Paul LeClerc introduces the final report at the press conference.



Congressman David Price at the Congressional Briefing, with (far left to right) Jessie “little doe” Baird, Dan E. Davidson, Paul LeClerc, Jonathan F. Fanton, and Nancy McEldowney.

Roundtable Discussion

February 28, 2017
Reserve Officers Association
Washington, D.C.

Participants

Martha G. Abbott
*American Council on the Teaching
of Foreign Languages*

Mark Aronoff
Stony Brook University

Jessie “little doe” Baird
*Wôpanâak Language
Reclamation Project*

Richard Brecht
*University of Maryland,
College Park*

Sarah Brookhart
*Association for Psychological
Science*

Eva Caldera
Phi Beta Kappa

Mary Sue Coleman
*Association of American
Universities*

Dan E. Davidson
*American Councils for
International Education;
Bryn Mawr College*

Brian T. Edwards
Northwestern University

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Rosemary G. Feal
*Modern Language Association
of America*

Carol Gluck
Columbia University

Stephen Kidd
National Humanities Alliance

Richard Kurin
Smithsonian Institution

Paul LeClerc
*Columbia Global Center-Paris,
Columbia University*

Esther Mackintosh
*Federation of State Humanities
Councils*

Nancy McEldowney
*Foreign Service Institute,
U.S. Department of State*

Maureen McLaughlin
U.S. Department of Education

Alyson Reed
Linguistic Society of America

William Rivers
*Joint National Committee for
Languages – National Council
for Languages and International
Studies*

Rubén G. Rumbaut
University of California, Irvine

Esha Senchaudhuri
*American Academy of Arts
and Sciences*

John Tessitore
*American Academy of Arts
and Sciences*

Kenneth L. Wallach
Central National Gottesman Inc.

Congressional Briefing

February 28, 2017
Washington, D.C.

Participants

Martha G. Abbott
*American Council on the Teaching
of Foreign Languages*

Mark Aronoff
Stony Brook University

Jessie “little doe” Baird
*Wôpanâak Language
Reclamation Project*

Dan E. Davidson
*American Councils for
International Education;
Bryn Mawr College*

Brian T. Edwards
Northwestern University

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Rosemary G. Feal
*Modern Language Association
of America*

Carol Gluck
Columbia University

Paul LeClerc
*Columbia Global Center-Paris,
Columbia University*

Nancy McEldowney
*Foreign Service Institute,
U.S. Department of State*

David Price
U.S. House of Representatives

Rubén G. Rumbaut
University of California, Irvine

Kenneth L. Wallach
Central National Gottesman Inc.

Annual Conference of the National Council of Less Commonly Taught Languages

April 21, 2017
Rolling Meadows, IL

Roundtable on the Report of the National Commission on Language Education and Its Consequences for the Language Profession

Panelists

Antonia Schleicher, Chair
African Language Teachers Association/National Council of Less Commonly Taught Languages

Richard D. Brecht
University of Maryland

Dan E. Davidson
American Councils for International Education; Bryn Mawr College

Brian T. Edwards
Northwestern University

William Rivers
Joint National Committee for Languages – National Council for Languages and International Studies

Annual Conference of the Association for Psychological Science

May 26, 2017
Boston, MA

Discussion group led by **Philip Rubin** (Haskins Laboratories)

PROJECT THE HUMANITIES INDICATORS

The Humanities Indicators are descriptive statistics that chart trends over time in aspects of the humanities that are of interest to a wide audience and for which there are available data. The Indicators provide data on a diverse array of topics pertaining to the role of the humanities in the contemporary United States. These topics are organized into five major parts:

- **Part I. Primary and Secondary Education in the Humanities:** These Indicators cover national measures of achievement at the primary and secondary school levels; high school course-taking; and the characteristics of primary and secondary faculty.
- **Part II. Undergraduate and Graduate Education in the Humanities:** The Indicators in this section focus on the types of courses undergraduate and graduate students take and the degrees they receive, and consider both preparedness for graduate school and the conditions of graduate education.

- **Part III. The Humanities Workforce:** These Indicators describe employment in humanistic settings and occupations, with emphasis on postsecondary faculty, and also the career paths of those with undergraduate and graduate degrees in the humanities.
- **Part IV. Humanities Funding and Research:** These Indicators include data on federal, state, and private funding for the humanities, as well as on support for academic research.
- **Part V. The Humanities in American Life:** The topics currently treated in this section include humanistic skills and practices, such as reading and multilingualism; support for and utilization of various humanistic institutions, such as libraries and museums; and public attitudes toward the humanities.

The Humanities Indicators are accessible at www.humanitiesindicators.org.

THE HUMANITIES INDICATORS, *continued*

Project Director

Norman M. Bradburn
*NORC at the University of
Chicago*

Advisory Committee

Jack Buckley
American Institutes for Research

Jonathan R. Cole
Columbia University

John Dichtl
*American Association for State
and Local History*

Ronald G. Ehrenberg
Cornell University

Michael Hout
New York University

Felice J. Levine
*American Educational Research
Association*

Esther Mackintosh
*Federation of State Humanities
Councils*

Judith Tanur
Stony Brook University

Steven Wheatley
*American Council of Learned
Societies*

Project Staff

Paul Erickson

Carolyn Fuqua

John Hammer

Robert B. Townsend

John Tessitore

Funders

*The William and Flora Hewlett
Foundation*

*The Andrew W. Mellon
Foundation*

*National Endowment for the
Humanities*

Peck Stacpoole Foundation

The Rockefeller Foundation

Sara Lee Corporation

The Teagle Foundation

**With advice and assistance
from:**

American Academy of Religion

*American Council of Learned
Societies*

American Historical Association

*American Philosophical
Association*

*American Political Science
Association*

College Art Association

*Federation of State Humanities
Councils*

History of Science Society

Linguistic Society of America

*Modern Language Association
of America*

*National Communication
Association*

National Humanities Alliance

Society for Biblical Literature

PROJECT MEETINGS || THE HUMANITIES INDICATORS

Indicators Advisory Committee Meeting

January 13, 2017
Washington, D.C.

The full committee met to assess the current work of the project and to develop new initiatives for the coming year.

Participants

Jack Buckley
American Institutes for Research

Jonathan R. Cole
Columbia University

John Dichtl
*American Association for State
and Local History*

Ronald G. Ehrenberg
Cornell University

Michael Hout
New York University

Felice J. Levine
*American Educational Research
Association*

Esther Mackintosh
*Federation of State Humanities
Councils*

Judith Tanur
Stony Brook University

Steven Wheatley
*American Council of Learned
Societies*

National Inventory of Humanities Organizations

April 17, 2017
Washington, D.C.

The meeting convened a range of experts on the public humanities to provide guidance on a new initiative for the Human-

ities Indicators: to create a detailed data set on the full range of humanities organizations in the United States.

Participants

Norman Bradburn
NORC at the University of Chicago

Jeff Allen
Federation of State Humanities Councils

Brett Bobley
National Endowment for the Humanities

John Dichtl
American Association for State and Local History

Paul Erickson
American Academy of Arts and Sciences

Carolyn Fuqua
American Academy of Arts and Sciences

Jim Kitterman
Maryland Humanities Council

Elizabeth Lynn
Center for Civic Reflection

Kathy Rosa
American Library Association

Carole Rosenstein
George Mason University

Ben Sweezy
Institute of Museum and Library Sciences

Robert B. Townsend
American Academy of Arts and Sciences

PROJECT COMMISSION ON THE ARTS

In February 2016, the Academy began holding a series of conversations around the country on the possibility of forming a national Commission on the Arts. Since then, the Academy has held nine conversations in eight cities around the country with groups of arts leaders, funders, and practicing artists. These conversations engaged a range of Academy members with an interest in the arts.

A series of common questions emerged from these meetings:

- What is the *role* of the arts in American life? (Many groups have addressed the *state* of the arts.) What can the arts do? What do we *want* the arts to do?
- What is the function of the arts in an increasingly diverse America? How can the arts help build empathy between people and build bridges between communities?
- What is the impact of the division between nonprofit and commercial arts?

- What is the impact of new technologies on the arts? More broadly, what is the relationship between science and the arts?
- What are the differences between distinct regional arts ecologies around the country?
- What can the nation do to encourage participation in arts-making as well as in arts attendance?

The consensus among participants in the meetings held so far is that for a commission to be successful, its mandate must be tightly focused; a general conversation that results in the conclusion that the arts are deserving of support will not be helpful. To that end, the Academy is convening a planning committee to craft a clear mandate for the commission and to identify potential outcomes.

Funder

The Ford Foundation

EXPLORATORY MEETINGS // COMMISSION ON THE ARTS

September 12, 2016
Washington, D.C.

Co-Hosts

Roger Sant
The Summit Foundation

Victoria Sant
The Summit Foundation

Participants

Melissa Chiu
Hirshhorn Museum and Sculpture Garden

Jane Chu
National Endowment for the Arts

Louise Bryson
The J. Paul Getty Trust

Jonathan F. Fanton
American Academy of Arts and Sciences

Bob Gazzale
American Film Institute

Dorothy Kosinski
The Phillips Collection

Earl Powell III
National Gallery of Art

Sharon Rockefeller
WETA

Deborah Rutter
The Kennedy Center for the Performing Arts

Molly Smith
The Mead Center for American Theater

Damian Woetzel
Aspen Institute Arts Program

September 26, 2016
Cambridge, MA

Co-Hosts

John F. Cogan, Jr.
Pioneer Investment Management USA, Inc.

Susan W. Paine
Museum of Fine Arts, Boston

Yo-Yo Ma
Cambridge, MA

Participants

Jonathan Bays
Silkroad Productions

Roger Brown
Berklee College of Music

Benjamin Buchloh
Harvard University

Taylor Carol
Harvard University

Rohit Deshpande
Harvard Business School

Kara Elliott-Ortega
Mayor's Office of Arts and Culture, City of Boston

Jonathan F. Fanton
American Academy of Arts and Sciences

Howard Gardner
Harvard University Graduate School of Education

Laurence Lesser
New England Conservatory

Ben Mandelkern
Silkroad Productions

Jill Medvedow
Institute of Contemporary Art

Jack Megan
Harvard University

Meg Morton
Fidelity Foundation

Richard Ortner
The Boston Conservatory

William Poorvu
Harvard Business School

Anne Poulet
The Frick Collection

Richard Stoltzman
New England Conservatory

Michael Uy
Harvard University

Mark Volpe
Boston Symphony Orchestra

Debra Wise
Underground Railway Theater

San San Wong
Barr Foundation

Nicholas Zervas
Harvard Medical School; Massachusetts General Hospital

EXPLORATORY MEETINGS \ COMMISSION ON THE ARTS, *continued*

November 17, 2016
San Francisco, CA

Co-Hosts

Bernard Osher
The Bernard Osher Foundation

Barbro Osher
The Bernard Osher Foundation

Participants

Kate Duhamel
Fountain 3 Films; LINES Ballet

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Lori Fogarty
Oakland Museum of California

Charles M. Geschke
Adobe Systems

Chad Jones
*San Francisco Arts Education
Project*

Mark Oppenheim
m/Oppenheim Executive Search

Carey Perloff
American Conservatory Theater

Lawrence Rinder
*Berkeley Art Museum and Pacific
Film Archive*

Matthew Shilvock
San Francisco Opera

David Stull
*San Francisco Conservatory
of Music*

Matias Tarnopolsky
Cal Performances

Helgi Tomasson
San Francisco Ballet

Jay Xu
*Asian Art Museum of
San Francisco*

January 13, 2017
Miami, FL

Host

Alberto Ibarguen
*John S. and James L. Knight
Foundation*

Participants

Sarah Arison
Arison Arts Foundation

Ali Codina
Open Lab

P. Scott Cunningham
O, Miami

Maria Del Valle
ArtCenter South Florida

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Rosie Gordon-Wallace
*Diaspora Vibe Cultural Arts
Incubator*

Howard Herring
New World Symphony

Carla Hill
*South Miami-Dade Cultural
Arts Center*

Carolina Jayaram
National YoungArts Foundation

Sue Kronick
Miami City Ballet

Cathy Leff
Florida International University

Lucas Leyva
Borscht Corporation

Bahia Ramos
*John S. and James L. Knight
Foundation*

Victoria Rogers
*John S. and James L. Knight
Foundation*

Ellen Salpeter
*Institute of Contemporary Art,
Miami*

Dennis Scholl
Scholl Creative

Chana Budgazad Sheldon
Locus Projects Inc.

Franklin Sirmans
Pérez Art Museum Miami

Michael Spring
*Miami-Dade Department of
Cultural Affairs*

Juan Valadez
Rubell Family Collection

February 10, 2017
St. Louis, MO

Host

Emily Rauh Pulitzer
Pulitzer Arts Foundation

Participants

Mary Jo Bang
*Washington University in
St. Louis*

Carmon Colangelo
*Washington University in
St. Louis*

Rick Dildine
Shakespeare Festival St. Louis

Michael Eastman
Photographer

Lisa Melandri
*Contemporary Art Museum
St. Louis*

Timothy O'Leary
Opera Theatre of Saint Louis

Tamara Schenkenberg
Pulitzer Arts Foundation

Cara Starke
Pulitzer Arts Foundation

Roseann Weiss
*Regional Arts Commission
St. Louis*

Mark Wrighton
*Washington University in
St. Louis*



American Institutions, Society, and the Public Good

Since its founding, the American Academy of Arts and Sciences has worked to promote a “strong and virtuous” nation. Today this effort involves projects designed to advance the state of scholarship about the nation’s institutions and to develop innovative solutions to problems facing American society. Projects in this area interpret the term “institution” broadly, focusing on all of the constituent elements of government and civil society. These projects seek to examine the impact of institutions on broad sectors of American society. They address how individual citizens interact with social structures, how these experiences prepare people to make a positive contribution to a diverse America, and how these institutions are changing and might operate differently in the twenty-first century. The Academy shares this research through publications, conferences, and active outreach. More information about this program area is available on the Academy’s website at www.amacad.org/american-institutions.

PROJECT

MAKING JUSTICE ACCESSIBLE: DATA COLLECTION AND LEGAL SERVICES FOR LOW-INCOME AMERICANS

On November 11–12, 2015, the American Academy hosted a symposium on the state of legal services for low-income Americans. Symposium participants – including federal and state judges, legal scholars, and social scientists – agreed that the legal community does not have enough reliable and accessible data to be able to address adequately the scope and variety of the crisis in legal services. The participants also agreed that the American Academy, with its diverse membership and its history of data efforts in the humanities, could continue to be a valuable partner by organizing a set of conversations on the topic, aggregating the incomplete data that currently exist on unrepresented civil litigants, and suggesting a research agenda for future data collection efforts.

Making Justice Accessible will include the publication of an issue of *Daedalus* in Spring 2019 on “Legal Services and Access to Justice.” Divided into three topics – Delivery, Interests, and the Meaning of Access to Justice – the volume will speak to the importance of civil legal aid and representation to the American justice system and the rule of law. Drawing from multiple disciplines within legal scholarship, the collection will shed light on what access to justice really means, enumerate the multiple parties and interests with a stake in equal access to civil justice, and educate the broader public about current efforts to deliver quality civil legal representation. The guest editors of the *Daedalus* issue are Lincoln Caplan (Yale Law School), Lance Liebman (Columbia Law School), David Tatel (United States Court of Appeals for the District of Columbia Circuit), and Rebecca Sandefur (University of Illinois, Urbana-Champaign).

Project Chairs

Mark Hansen
University of Chicago

Rebecca Sandefur
*University of Illinois at
Urbana-Champaign*

Funder

*David M. Rubenstein
Enhancement Fund*

The Exploratory Fund

The Exploratory Fund was established in 2015 to support Members who wish to work together, and with other scholars, experts, and practitioners, to look over the horizon for issues and opportunities not well understood, to think of problems in a fresh way, and to search for connections between research and policy that advance the common good. Through the Exploratory Fund, the Academy is committed to encouraging forward-thinking collaborations that incorporate diverse perspectives and bring together creative thinkers and leaders representing a range of disciplines, career stages, backgrounds, and experiences.

Proposals are accepted on a rolling basis and awarded funds to cover the costs associated with an Exploratory Meeting. The Exploratory Fund has supported proposals on a wide array of topics, including *The Future of Jazz in America*, *Women and Equality*, and *Understanding the New Nuclear Age*. Members are encouraged to contact the Academy President and staff to discuss their ideas for Exploratory Meetings.

The Exploratory Fund is made possible through the generous support of the Arnhold Foundation, John F. Cogan, Jr., Michael E. Gellert, Bob and Kristine Higgins, Carl and Betty Pforzheimer, William Poorvu, and Kenneth L. and Susan S. Wallach.

EXPLORATORY MEETINGS

Science and the Legal System

July 20–21, 2017
Cambridge, MA

As the overlap between scientific learning and legal issues increases, leading scientists reportedly shy away from involvement with the legal system or have difficulties communicating their knowledge. Despite the importance of this issue, there are few systematic studies on how scientists view the legal system or on their experiences as consultants to lawyers or judges or as expert witnesses. Academy Members **Shari Seidman**

Diamond and **Richard Lempert** are leading an initiative to learn what motivates scientists to participate in legal processes and recommend ways to improve the relationship between science and the law. In July they chaired a meeting at the House of the Academy for legal scholars and scientists to work together on a publication examining this topic.

EXPLORATORY MEETINGS \ SCIENCE AND THE LEGAL SYSTEM, *continued*

Chairs

Shari Seidman Diamond
*Northwestern University
Pritzker School of Law*

Richard Lempert
University of Michigan

Participants

Huda Akil
University of Michigan

Robert Cook-Deegan
Arizona State University

Rebecca Eisenberg
*University of Michigan
Law School*

Nancy Gertner
*Harvard Law School; United
States District Court for the
District of Massachusetts, ret.*

Linda Greenhouse
Yale Law School

Susan Haack
University of Miami

Valerie Hans
Cornell Law School

Sheila Jasanoff
Harvard Kennedy School

Jay Kadane
Carnegie Mellon University

Elizabeth Loftus
University of California, Irvine

Anne-Marie Mazza
*National Academies of Sciences,
Engineering, and Medicine*

Jennifer L. Mnookin
*University of California,
Los Angeles School of Law*

Jed Rakoff
*United States District Court for
the Southern District of New York*

Daniel Rubinfeld
*University of California,
Berkeley School of Law;
New York University*

Michael Saks
*Sandra Day O'Connor College of
Law, Arizona State University*

Joseph Sanders
University of Houston Law

Patti Saris
*United States District Court for
the District of Massachusetts*

Nationalism, Populism, and the Future of Global Governance

June 12, 2017
Cambridge, MA

Academy Member Jack Snyder chaired an exploratory meeting that brought scholars and experts from the fields of political science, international affairs, bioethics, and government to the House of the Academy on June 12, 2017. The goal of the meeting was to examine whether there might be a common taproot behind the nationalist and populist movements that have recently emerged across the globe, and to look at how

these movements relate to the existing multilateral architecture of global institutions. Participants also assessed any new forms of international cooperation or conflict that could emerge from these movements, and discussed concerns about the potential for political violence and related threats to democracy, liberty, equality, economic development, and international stability.

Chair

Jack Snyder
Columbia University

Participants

Isabella Bakker
York University

Solomon Benatar
University of Cape Town

Mark Blyth
Brown University

Antonia Chayes
Tufts University

John F. Cogan, Jr.
*Pioneer Investment Management
USA, Inc.*

Daniel Drezner
*Tufts University;
The Washington Post*

Renata Dwan
United Nations

Jeffrey Frieden
Harvard University

Stephen Gill
York University

Carol Gluck
Columbia University

Alastair Iain Johnston
Harvard University

David Laitin
Stanford University

Douglas McAdam
Stanford University

Pippa Norris
Harvard University

William Poorvu
Harvard Business School

Barry Posen
*Massachusetts Institute of
Technology*

William Reno
Northwestern University

Jill Schuker
Washington Center for OECD

James Wertsch
*Washington University
in St. Louis*

**Marina von Neumann
Whitman**
University of Michigan

The Future of Public Media

June 5, 2017
New York, NY

In 1967, the U.S. Congress passed the Public Broadcasting Act and the Carnegie Commission on Educational Television released its first and most influential report. On the fiftieth anniversary of these landmark events, Academy Member Bill Baker convened a meeting of scholars, media executives, journalists, and other experts to discuss the future of public media. In the same spirit as the Carnegie Commission, partic-

ipants spoke to the potential of public media, but also frankly assessed where it fit within a profoundly altered American media landscape, and what its continued role, if any, might be over the next fifty years and beyond. Participants also shared their hopes for public media and discussed what current trends could mean for American media and the American people.

Chair

Bill Baker
Fordham University

Participants

Jonathan Abbott
WGBH

Nancy Andrews
*Duke University
School of Medicine*

Henry Arnhold
*Arnhold and S. Bleichroeder
Holdings, Inc.*

Bishop Frank Caggiano
*Roman Catholic Archdiocese
of Hartford*

Julie Drizin
Current

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Cynthia Fenneman
American Public Television

Ellen Goodman
Rutgers Law School

Gary E. Knell
National Geographic Society

Virginia Roach
Fordham University

Geoffrey Sands
McKinsey & Company

Neal Shapiro
WNET

Al Sikes
*Federal Communications
Commission*

Thomas Streeter
University of Vermont

Zephyr Teachout
*Fordham University
School of Law*

Mark Thompson
The New York Times Company

Neil deGrasse Tyson
Hayden Planetarium

Christopher Vollmer
Strategy&

Laura Walker
New York Public Radio

Josh Weston
Automatic Data Processing



Meeting on the Future of Public Media – back row: Thomas Streeter, Jonathan Abbott, Geoffrey Sands, Cynthia Fenneman, Virginia Roach, Al Sikes; front row: Josh Weston, Laura Walker, Henry Arnhold, Jonathan Fanton, Bishop Frank Caggiano; front: Bill Baker

The Children of Immigrants in New Places of Settlement

April 20–21, 2017
Cambridge, MA

Immigrant children and children of immigrants are the fastest growing component of America’s young population, now comprising one-in-four of all persons aged 18 and younger. Too little is known about their experiences in receiving communities, especially as increasing numbers move beyond major cities and into small towns and rural areas across the U.S. South and Midwest. Under the leadership of Academy

Member **Alejandro Portes**, thirteen scholars from across the United States and Mexico, representing the fields of sociology, education, anthropology, history, and economics, met at the House of the Academy to review the current literature on this population, discuss their concerns, and outline ideas and priorities for the future.

Chair

Alejandro Portes
Princeton University

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Matthew Holsapple
Spencer Foundation

Rubén G. Rumbaut
University of California, Irvine

Participants

Aixa Cintron-Velez
Russell Sage Foundation

Patricia Fernández-Kelly
Princeton University

Helen Marrow
Tufts University

Min Zhou
*University of California,
Los Angeles*

Richard Duran
*University of California,
Santa Barbara*

Roberto Gonzales
Harvard University

Douglas S. Massey
Princeton University

Victor Zuniga Gonzalez
*Monterrey Technological Institute,
Mexico*

David Griffith
East Carolina University

Daniel Morales
*American Academy of Arts
and Sciences*

Ruben Hernandez-Leon
*University of California,
Los Angeles*

Krista Perreira
*University of North Carolina
at Chapel Hill*



Participants at the meeting on The Children of Immigrants in New Places of Settlement.

Building and Strengthening the Joint Comprehensive Plan of Action (JCPOA)

February 5–6, 2017
Cambridge, MA

The implementation of the Iran Nuclear Agreement offered an historic opportunity to assess the state of arms control diplomacy, to distill lessons learned, and to suggest a framework for future international negotiations among the countries in the Persian Gulf and surrounding region. On February 5–6, 2017, Academy Members **Robert Rosner** and **Donald Lamb** chaired a meeting at the House of the Academy that brought together

a diverse group of thinkers, including former government officials experienced in negotiations with Iran, heads of think tanks, and scholars of nuclear studies and regional issues. The group discussed opportunities and questions raised by the JCPOA and pathways toward fruitful conversations involving P5+1 representatives, technical experts, policy-makers, and government officials.

Chairs

Robert Rosner
University of Chicago

Donald Lamb
University of Chicago

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Bill Foster
U.S. Congress

Stephen Heintz
Rockefeller Brothers Fund

R. Scott Kemp
*Massachusetts Institute of
Technology*

Dimitri Kusnezov
*U.S. National Nuclear Security
Administration*

Seyed Hossein Mousavian
Princeton University

Janne Nolan
*The George Washington
University*

Laura Rockwood
*Vienna Center for Disarmament
and Non-Proliferation*

Gary Samore
Harvard University

Ali Vaez
International Crisis Group

Jim Walsh
*Massachusetts Institute of
Technology*

Participants

William J. Burns
*Carnegie Endowment for
International Peace*

Women and Equality

December 10, 2016
Cambridge, MA

Many take for granted that women should share with men equal access to political, economic, and social resources and leadership. The lived experiences of women, however, vary enormously: by country, by sector of the economy, by class, by race, and by a large number of other factors. On December 10, 2016, Academy Members **Nannerl O. Keohane** and **Frances McCall Rosenbluth** convened a small meeting at the House of the Academy that included scholars from the fields of sociology, economics, political science, and history. Participants explored new and comprehensive ways of thinking about social, political, and economic realities for women across multiple, diverse contexts. At the recommendation of meeting participants, the Academy will host a larger international conference in December 2017 on the topic of women and equality.



Frances McCall Rosenbluth, Nannerl O. Keohane, Rose McDermott, and Debora Spar

EXPLORATORY MEETINGS \ WOMEN AND EQUALITY, *continued*

Chairs

Nannerl O. Keohane
Princeton University

Frances McCall Rosenbluth
Yale University

Participants

Shelley Correll
Stanford University

Rafaela Dancygier
Princeton University

Claudia Goldin
Harvard University

Mala Htun
University of New Mexico

Rose McDermott
Brown University

Debora Spar
Barnard College

Jessica Wilkerson
*American Academy of Arts
and Sciences*

R2P: Cultural Heritage

November 29 – December 1, 2016
London, England

An increase in attacks on cultural heritage sites since 2013, especially in Syria and Iraq, has raised questions and concerns about how best to protect irreplaceable heritage. In partnership with The J. Paul Getty Trust, Academy Member **James Cuno** convened a group of world renowned museum directors and specialists in international law and doctrine formation to

discuss what role the international community could play in protecting the cultural heritage of countries in warfare. The group drew on the Responsibility to Protect Norm, adopted by the United Nations in 2005, as a foundation for thinking about possible new frameworks for protecting cultural heritage sites.

Chair

James Cuno
The J. Paul Getty Trust

Participants

Samir Abdulac
ICOMOS

Lourdes Arizpe
*National University of Mexico,
UNESCO*

Lloyd Axworthy
St. Paul's University College

Louise H. Bryson
The J. Paul Getty Trust

Lassana Cissé
*Directeur National du Patrimoine
Cultuel du Mali (DNPC)*

Stephen W. Clark
The J. Paul Getty Trust

Megan Clement
The Conversation Global

Gilles Dutertre
International Criminal Court

Hugh Eakin
New York Review of Books

Karl W. Eikenberry
Stanford University

Lazare Eloundou Assomo
UNESCO

Alun Evans
British Academy

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Hartwig Fischer
The British Museum

Katrin Flikschuh
London School of Economics

Rosemary Foot
University of Oxford

Hansjörg Haber
formerly, European Union

Mary Kaldor
London School of Economics

Sunil Khilnani
King's College London

Maja Kominko
Arcadia Fund

Richard Kurin
Smithsonian Institution

Richard Lambert
The British Museum

Edward Luck
Columbia University

Dana Zaret Luck
*Mattis and Luck Center for
Neuropsychological Services*

Nicholas Mellor
Humanitarian Innovation Fund

Carsten Paludan-Müller
*Norwegian Institute for Cultural
Heritage Research*

Hermann Parzinger
*Prussian Cultural Heritage
Foundation*

Mikhail Piotrovskiy
The State Hermitage Museum

Stephen Rapp
*formerly, U.S. Department
of State*

Jessica Rawson
University of Oxford

Louise Richardson
University of Oxford

Jacob Rothschild
The Rothschild Foundation

Bijan Rouhani
*Scientific Committee on Risk
Preparedness; International
Council on Monuments and Sites*

Francesco Rutelli
Associazione Incontro di Civiltà

EXPLORATORY MEETINGS \ R2P: CULTURAL HERITAGE, *continued*

Anthony Sattin
Journalist

Ismail Serageldin
Library of Alexandria

Jamie Shea
NATO

Charles C. Stewart
*University of Illinois at
Urbana-Champaign*

Mana Takatori
Japan Foundation London

Alberto Vial
Louvre Museum

Thomas G. Weiss
The City University of New York

Mariët Westermann
*The Andrew W. Mellon
Foundation*

Timothy Whalen
The Getty Conservation Institute

Best Practices in Philanthropic Funding

October 17–18, 2016
Cambridge, MA

As U.S. government funding for research and other services continues to decline, nongovernmental funders, including foundations, corporations, individuals, and even foreign governments, have provided crucial support in a wide range of fields. At the same time, there have been instances, both real and perceived, in which donors may have exercised undue influence on their grantees. Academy Member **Larry Kramer**

convened a meeting at the House of the Academy on October 17–18, 2016, which brought together university and government officials, heads of foundations, media representatives, and researchers. Participants considered whether a statement of best practices could protect the integrity of research, the reputations of donors, and the independence of recipients.

Chair

Larry Kramer
*The William and Flora Hewlett
Foundation*

Participants

Phil Buchanan
Center for Effective Philanthropy

Chad English
*David and Lucile Packard
Foundation*

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Marion Fremont-Smith
*Hauser Institute for
Nonprofit Organizations;
Harvard Kennedy School*

Sam Gill
*John S. and James L. Knight
Foundation*

Antonia Hernandez
*California Community
Foundation*

Marc Kastner
Science Philanthropy Alliance

Robert Kissane
CCS

Gara LaMarche
Democracy Alliance

Leslie Lenkowsky
Indiana University

Earl Lewis
*The Andrew W. Mellon
Foundation*

Jessica Mathews
*Carnegie Endowment for
International Peace*

Anthony Monaco
Tufts University

Aryeh Neier
Open Society Foundations

Michael Oreskes
NPR

Kenneth Prewitt
Columbia University

Elspeth Revere
Ravenswood Consulting Group

Michael D. Smith
Harvard University

Richard Tofel
ProPublica

Preserving Intellectual Legacies in a Digital Age

September 22–23, 2016
Cambridge, MA

As scholars become more dependent on digital technology to preserve and archive their scholarly findings, concerns about how to make intellectual production available to future generations have grown. On September 22–23, 2016, Academy Members Pamela Samuelson, Carla Hesse, and Robert Darnton convened a meeting of authors, publishers, librarians, lawyers,

archivists, and public policy experts representing an array of disciplines and backgrounds to address these concerns. Participants raised questions about the equitable transmission of scholarly and cultural knowledge and discussed new possibilities for scalable methods of digital publication and preservation.

Chairs

Pamela Samuelson
*University of California, Berkeley
School of Law*

Carla Hesse
University of California, Berkeley

Robert Darnton
Harvard University

Participants

Peter Berkery
*American Association of
University Presses*

Dan Cohen
Digital Public Library of America

Paul Courant
University of Michigan

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Mike Furlough
HathiTrust

Tom Griffiths
University of California, Berkeley

Lewis Hyde
Kenyon College

Brewster Kahle
Internet Archive

Donald Lamm
W.W. Norton & Company

James J. O'Donnell
Arizona State University

Robert Pinsky
Boston University

Kenneth Prewitt
Columbia University

Jason Rhody
Social Science Research Council

Abby Smith Rumsey
Writer and Historian

Mahadev Satyanarayanan
Carnegie Mellon University

Sidonie Smith
University of Michigan

**Molly Shaffer Van
Houweling**
*University of California,
Berkeley School of Law*

Don Waters
*The Andrew W. Mellon
Foundation*

Nancy Weiss
*U.S. Institute of Museum and
Library Services*

Diane P. Wood
*U.S. Court of Appeals,
Seventh Circuit*

Jonathan Zittrain
Harvard Law School



Participants at the meeting on Preserving Intellectual Legacies in a Digital Age.

Native Americans and Academia

August 21–23, 2016
Cambridge, MA

On August 21–23, 2016, Academy Members **Philip J. Deloria**, **Loren Ghiglione**, and **Douglas Medin**, along with Ned Blackhawk, Bryan Brayboy, K. Tsianina Lomawaima, and Mark Trahant, convened a meeting that brought Native American scholars, experts on Native American issues, and Native American tribal leaders to the House of the Academy. Participants discussed critical issues related to Native American representation

in academia, such as the future of Native American students and scholars and new intellectual directions for scholarship on American Indian people. The group also considered how academics could, through serious engagement with Native American issues, develop new models for thinking about social diversity, politics, and law that address some of the burdens of American history.

Chairs

Philip J. Deloria
University of Michigan

Loren Ghiglione
Northwestern University

Douglas Medin
Northwestern University

in collaboration with

Ned Blackhawk
Yale University

Bryan Brayboy
Arizona State University

K. Tsianina Lomawaima
Arizona State University

Mark Trahant
University of North Dakota

Participants

Jessie “little doe” Baird
*Wôpanâak Language
Reclamation Project*

Kari A. B. Chew
University of Arizona

Amy E. Den Ouden
*University of Massachusetts,
Boston*

N. Bruce Duthu
Dartmouth College

Stephanie Fryberg
University of Washington

Nanibaa’ Garrison
University of Washington

Talia Landry
Mashpee Wampanoag Tribe

Wesley Leonard
University of California, Riverside

Shelly Lowe
Harvard University

Teresa L. McCarty
*University of California,
Los Angeles*

Maggie McKinley
Harvard Law School

Sheilah E. Nicholas
University of Arizona

Kyle Whyte
Michigan State University

Rosita Worl
Sealaska Heritage Institute

**Melissa Tantaquidgeon
Zobel**
Mohegan Tribe, Connecticut

The Future of Jazz in America

May 19, 2016
Cambridge, MA

Inspired by their concerns over the changing popular profile and diminished radio exposure of jazz music, Academy Members and jazz enthusiasts Felton Earls and William Damon convened a meeting at the House of the Academy on May 19, 2016. They brought together jazz scholars, performers, busi-

ness leaders, philanthropists, and fellow enthusiasts to discuss issues related to performance and outreach, the business of jazz, and jazz education. The group also began planning an issue of *Dædalus*, which will be guest edited by Gerald Early and Ingrid Monson and explore why jazz still matters.

Chairs

Felton Earls
Harvard University

William Damon
Stanford University

Participants

Pauline Bilsky
JazzBoston

Robert Blocker
Yale University

Tessil Collins
Jazz 24/7

Stephen Daniel
Seyron Partners, LLC

Gerald Early
*Washington University
in St. Louis*

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Eric Jackson
WGBH Jazz Radio

Sean Jones
Berklee College of Music

Ingrid Monson
Harvard University

Martin Mueller
The New School

James Nadel
Stanford University

Robert O’Meally
Columbia University

Tim Owens
NPR Jazz

Meghan Stabile
Revive Music Group

Tod Stoll
Jazz at Lincoln Center

Judith Tick
Northeastern University



Participants at the meeting on The Future of Jazz in America

Bridging the Gap between Area and Global Studies

March 7, 2016
Cambridge, MA

With the divides between area and global studies widening, Academy Member **Arthur Kleinman** chaired a meeting of scholars from across the United States and the United Kingdom to develop novel ways of easing these long-standing tensions. On March 7, 2017, at the House of the Academy, participants worked to identify and better understand impediments to collaboration between the fields and to develop initial steps toward strengthening and sustaining cross-disciplinary relationships. The meeting also provided an opportunity for scholars to explore broader questions about how knowledge might be reorganized and institutionalized to support twenty-first-century scholarship.

Chair

Arthur Kleinman
Harvard University

Grzegorz Ekiert
Harvard University

Mark Elliott
Harvard University

Vera Jelinek
New York University

Salmaan Keshavjee
Harvard Medical School

Haun Saussy
University of Chicago

Mitchell Stevens
Stanford University

Participants

Emmanuel Akyeamong
Harvard University

Jonathan F. Fanton
American Academy of Arts and Sciences

Michèle Lamont
Harvard University

Karen Thornber
Harvard University

Nezar AlSayyad
University of California, Berkeley

Ted Gerber
University of Wisconsin-Madison

Cynthia Miller-Idriss
American University

Ezra Vogel
Harvard University

Patricia Biermayr-Jenzano
Georgetown University

Andrew Hurrell
University of Oxford

Henry Rosovsky
Harvard University

Collaborative on Autism and Sign Language

December 12–13, 2015
Cambridge, MA

On December 12–13, 2015, Academy Members **Mark Aronoff**, **Susan Goldin Meadow**, and **Charles Nelson**, in collaboration with **Matthew Lerner**, convened a meeting of the Consortium on Autism and Sign Language at the House of the Academy. The meeting brought together scholars from more than nine fields and nineteen universities for the purpose of advancing novel

hypotheses about the emergence of communication in autism by leveraging methods and insights from the latest research on sign language. Participants also welcomed and integrated the voices of people from autistic and deaf communities into their plans for developing a cross-disciplinary research agenda on the nature of communication in these populations.

Chairs

Mark Aronoff
Stony Brook University

in collaboration with

Matthew Lerner
Stony Brook University

Susan Goldin Meadow
University of Chicago

Charles Nelson
Harvard University

Participants

Mihaela Barokova
Boston University

Pamela Block
Stony Brook University

Noah Britton
Bunker Hill Community College

Jamie Burke
Syracuse

Sheree Burke
Communication Support for Jamie Burke

Anthony Burns
Stony Brook University

Alisson Canfield
University of Connecticut

EXPLORATORY MEETINGS \ COLLABORATIVE ON AUTISM AND SIGN LANGUAGE, *continued*

Brian Casteluccio
University of Connecticut

Michelle Cheng
Rutgers University

April Choi
Harvard University

Francis Cooley
University of Texas, Austin

Laura Edwards
Harvard University

Inge-Marie Eigsti
University of Connecticut

Jacqueline Emmart
Sign Language Interpreter

John Fassenden
Stony Brook University

Kayla Finch
Boston University

Michele Friedner
Stony Brook University

Jolanta Galloway
Sign Language Interpreter

Jacquelyn Gates
Stony Brook University

Morton Gernsbacher
University of Wisconsin-Madison

Elizabeth Grace
National Louis University

Josh Green
University of Connecticut

Alycia Halladay
Autism Science Foundation

Paul Harris
Harvard University

Anders Hogstrom
University of Connecticut

Lynn Hou
University of Texas, Austin

Jana Iverson
University of Pittsburgh

Vikram Jaswal
University of Virginia

Erin Kang
Stony Brook University

Nancy Kanwisher
*Massachusetts Institute of
Technology*

Cara Keifer
Stony Brook University

Meghan Leonhardt
Stony Brook University

Matthew Lerner
Stony Brook University

Bianca Marro
Stony Brook University

James McPartland
Yale University

Richard Paul Meier
University of Texas, Austin

Maria Mody
*Harvard Medical School;
Massachusetts General Hospital*

Cora Mukerji
Harvard University

Jessie Northrup
University of Pittsburgh

Carol Padden
*University of California,
San Diego*

David Perlmutter
*University of California,
San Diego*

John Elder Robison
College of William & Mary

Emily Roemer
University of Pittsburgh

Tamara Rosen
Stony Brook University

Rick Rubin
Sign Language Interpreter

Clarence Schutt
Princeton University

Sophie Schwartz
Boston University

Aaron Shield
Miami University of Ohio

Stephen Shore
Adelphi University

Shubi Sinha
University of Virginia

Ruth Anna Spooner
University of Michigan

Mrikanga Sur
*Massachusetts Institute of
Technology*

Helen Tager-Flusberg
Boston University

Rebecca Weber
Stony Brook University

Kelsey West
University of Pittsburgh

Melanie Yergeau
University of Michigan

Making Justice Accessible

November 11–12, 2015
Cambridge, MA

By some estimates, only 20 percent of qualified Americans receive the necessary aid they require as they move through the American justice system. Millions are left unaided and unable to negotiate a complicated legal system on their own. To begin addressing this critical issue, Academy Members **John Levi**, **Martha Minow**, and **Lance Liebman** chaired a meeting of more than fifty judges and justices, chief justices,

legal scholars, and lawyers at the House of the Academy. Participants discussed issues ranging from fees and the difficulty of navigating the court system to the role of corporations in providing pro bono representation and the use of technology in the legal profession. This meeting has inspired an Academy project on Making Justice Accessible: Data Collection and Legal Services for Low-Income Americans.

Chairs

John Levi

*Legal Services Corporation;
Sidley Austin LLP*

Lance Liebman

Columbia Law School

Martha Minow

Harvard Law School

Participants

Kyle Barry

Alliance for Justice

Lincoln Caplan

Yale Law School

Dan Clivner

Sidley Austin LLP

Lisa Colpoys

Illinois Legal Aid Online

Colleen Cotter

Legal Aid Society of Cleveland

Ron Dolin

Harvard Law School

Douglas Eakeley

Rutgers University School of Law

Jonathan F. Fanton

*American Academy of Arts
and Sciences*

Fern Fisher

New York City Courts

Bryon Fong

Harvard Law School

Lisa Foster

U.S. Department of Justice

Ralph Gants

*Massachusetts Supreme
Judicial Court*

Steve Gottlieb

Atlanta Legal Aid

Robert Grey

Hunton & Williams

Mark Hansen

University of Chicago

Nan Heald

Pine Tree Legal Assistance

Nathan L. Hecht

Supreme Court of Texas

William Hubbard

*Nelson Mullins Riley &
Scarborough LLP*

Alexandra Lahav

*University of Connecticut
School of Law*

Bill Lee

WilmerHale

David F. Levi

Duke Law School

Jonathan Lippman

Latham & Watkins

Goodwin Liu

California Supreme Court

Lora Livingston

261st Civil District Court

Ed Marks

New Mexico Legal Aid

Victor Marrero

*U.S. District Court for the
Southern District of New York*

Margaret H. Marshall

Choate Hall & Stewart LLP

Mathew McCubbins

Duke University

Harriet Miers

Locke Lord

William Neukom

World Justice Project

Maureen O'Connor

*Supreme Court of the State
of Ohio*

Stuart Rabner

Supreme Court of New Jersey

Mark Recktenwald

Supreme Court of Hawai'i

Judith Resnik

Yale Law School

Nick Robinson

Harvard Law School

James Rowan

*Northeastern University
School of Law*

Mary K. Ryan

Nutter McClellenn & Fish LLP

James Sandman

Legal Services Corporation

Steven Shapiro

American Civil Liberties Union

David Tatel

*U.S. Court of Appeals, District of
Columbia Circuit*

Nicole VanderDoes

*ABA Standing Committee on the
American Judicial System*

Frank J. Vatterott

*Municipal Courts Post-Ferguson
Improvement Committee*

David Wilkins

Harvard Law School

Diane P. Wood

*U.S. Court of Appeals,
Seventh Circuit*

Anthony Young

Southern Arizona Legal Aid

Richard Zorza

*National Self-Represented
Litigation Network*

Understanding the New Nuclear Age

June 19, 2015
Cambridge, MA

As the foundations and principles that defined the nuclear order after World War II and during the Cold War shift and evolve, new challenges confront the international community. On June 19, 2015, Academy Member Robert Legvold chaired a meeting at the House of the Academy that brought together a group of experts in international security. The participants

examined recent changes in the dynamics of the nuclear order, explored the effect of new technologies on nuclear strategies, and assessed how future arms control agreements could be designed to address these changes. The meeting has since developed into an Academy project in the Global Security and International Affairs program area.

Chair

Robert Legvold
Columbia University

Participants

James Acton
*Carnegie Endowment for
International Peace*

Jonathan F. Fanton
*American Academy of Arts
and Sciences*

Catherine Kelleher
University of Maryland

Michael Krepon
The Stimson Center

Barry Posen
*Massachusetts Institute of
Technology*

Michael D. Swaine
*Carnegie Endowment for
International Peace*

Nina Tannenwald
Brown University

Local Program Committees

The Academy's Local Program Committees bring local Members together to advise on current Academy projects; to elevate the impact of Academy reports and publications; to explore topics of interest at the local or national level; and to provide opportunities for social and intellectual connection. The Academy has formed committees in Berkeley, Boston-Cambridge, Houston, Los Angeles, New Haven, New York, Philadelphia, Princeton, Providence, St. Louis, San Diego, and Washington, D.C., and is establishing new committees in Chicago and North Carolina, among other locations.

BERKELEY PROGRAM COMMITTEE

Jesse H. Choper, *Chair*
University of California, Berkeley
School of Law

David A. Hollinger
University of California, Berkeley

Randy W. Schekman
University of California, Berkeley;
Howard Hughes Medical Institute

BOSTON-CAMBRIDGE PLANNING COMMITTEE

David E. Bloom
Harvard T.H. Chan School
of Public Health

Richard E. Cavanagh
Harvard Kennedy School

Felton Earls
Harvard T.H. Chan School
of Public Health;
Harvard Medical School

Lawrence K. Fish
formerly, Citizens Bank

Sally Haslanger
Massachusetts Institute of
Technology

Arthur Jaffe
Harvard University

Susan Woods Paine
formerly, Museum of Fine Arts
Boston

Katharine Park
Harvard University

Steven Pinker
Harvard University

William Poorvu
Harvard Business School

Mriganka Sur
Massachusetts Institute of
Technology

Sherry Turkle
Massachusetts Institute of
Technology

HOUSTON PROGRAM COMMITTEE

Lee H. Rosenthal, *Cochair*
United States District Court,
Southern District of Texas

John Mendelsohn, *Cochair*
University of Texas MD Anderson
Cancer Center; Rice University

Ernest H. Cockrell
Cockrell Interests, Inc.;
Cockrell Foundation

Edward P. Djerejian
Baker Institute for Public Policy,
Rice University

Neal Lane
Rice University

David W. Leebron
Rice University

Ruth Simmons
Brown University

Edwin Thomas
Rice University

**LOS ANGELES
PROGRAM COMMITTEE**

Louis Geoffrey Cowan, Chair
University of Southern California

Frances Hamilton Arnold
California Institute of Technology

Austin Beutner
Vision to Learn

Gene D. Block
*University of California,
Los Angeles*

Louise Henry Bryson
The J. Paul Getty Trust

Albert Carnesale
*University of California,
Los Angeles*

James Cuno
The J. Paul Getty Trust

Louis M. Gomez
*University of California,
Los Angeles*

Maria D. Hummer-Tuttle
The J. Paul Getty Trust

Steven S. Koblik
*The Huntington Library,
Art Collections, and
Botanical Gardens*

Sherry Lansing
Sherry Lansing Foundation

John Lithgow
Los Angeles, CA

Chrysotomos L. Max Nikias
University of Southern California

David W. Oxtoby
Pomona College

Thomas F. Rosenbaum
California Institute of Technology

Annelia Isabel Sargent
California Institute of Technology

Ernest James Wilson III
University of Southern California

**NEW HAVEN
PROGRAM COMMITTEE**

**Frances McCall
Rosenbluth, Chair**
Yale University

Thomas Appelquist
Yale University

Seyla Benhabib
Yale University

John Carlson
Yale University

Kang-i Chang
Yale University

Margaret Clark
Yale University

Stephen Darwall
*Yale University;
University of Michigan*

Michael Donoghue
Yale University

Robert Ellickson
Yale Law School

Alan Gerber
Yale University

Linda Greenhouse
Yale Law School

Henry Hansmann
Yale Law School

Roger Howe
Yale University

John Langbein
Yale Law School

Joseph LaPalombara
Yale University

Mary Ellen Miller
Yale University

Peter Perdue
Yale University

Thomas Pollard
Yale University

Douglas Rae
Yale University

Judith Resnik
Yale Law School

John Roemer
Yale University

Alan Schwartz
Yale Law School

Ian Shapiro
Yale University

John Tully
Yale University

Megan Urry
Yale University

**NEW YORK
PROGRAM COMMITTEE**

Mark Kaplan, Chair
*Skadden, Arps, Slate, Meagher &
Flom LLP & Affiliates*

Thomas Bender
New York University

Carol Gluck
Columbia University

Nicholas Lemann
*Columbia University
Graduate School of Journalism*

Martin L. Leibowitz
Morgan Stanley

Daniel Rose
Rose Associates, Inc.

Matthew Santirocco
New York University

Kenneth L. Wallach
Central National Gottesman, Inc.

**PHILADELPHIA
PROGRAM COMMITTEE**

**Kathleen Hall Jamieson,
Cochair**
University of Pennsylvania

Nora S. Newcombe, Cochair
Temple University

Philip P. Betancourt
Temple University

Nancy Bonini
University of Pennsylvania

Jonathan A. Epstein
*University of Pennsylvania,
Perelman School of Medicine*

Martha Farah
University of Pennsylvania

Frank F. Furstenberg, Jr.
University of Pennsylvania

J. Larry Jameson
*University of Pennsylvania
Perelman School of Medicine*

Jean-Michel Rabate
University of Pennsylvania

Nathan Sivin
University of Pennsylvania

**PRINCETON
PROGRAM COMMITTEE**

- Peter Brooks
Princeton University
- Michael A. Cook
Princeton University
- Janet M. Currie
Princeton University
- Jill Dolan
Princeton University
- Carol J. Greenhouse
Princeton University
- Stanley Katz
Princeton University
- Arthur Levine
*Woodrow Wilson National
Fellowship Foundation*
- Nolan McCarty
Princeton University
- Harold Vincent Poor
Princeton University
- Marta Tienda
Princeton University
- Michael Wood
Princeton University
- Froma I. Zeitlin
Princeton University

**PROVIDENCE
PROGRAM COMMITTEE**

- Jill Pipher, *Chair*
Brown University
- Rose McDermott
Brown University

**ST. LOUIS
PROGRAM COMMITTEE**

- Larry Shapiro, *Chair*
*Washington University in
St. Louis School of Medicine*
- Gerald Early
*Washington University in
St. Louis*
- Lee Epstein
*Washington University in
St. Louis*
- Kenneth Ludmerer
*Washington University in
St. Louis School of Medicine*
- Emily Pulitzer
*The Pulitzer Foundation
for the Arts*
- Peter Raven
Missouri Botanical Garden
- Robert E. Ricklefs
University of Missouri at St. Louis
- James Wertsch
*Washington University in
St. Louis*
- Mark Wrighton
*Washington University in
St. Louis*

**SAN DIEGO
PROGRAM COMMITTEE**

- Gordon N. Gill, *Chair*
*University of California,
San Diego School of Medicine*
- Shu Chien
*University of California,
San Diego*
- Patricia Churchland
*University of California,
San Diego*
- Michael Cole
*University of California,
San Diego*

- Fred H. Gage
*Salk Institute for Biological
Studies*
- Benedict H. Gross
Harvard University
- Theodore Groves
*University of California,
San Diego*
- Tony Hunter
*Salk Institute for Biological
Studies*
- Harvey J. Karten
*University of California,
San Diego School of Medicine*
- David A. Lake
*University of California,
San Diego*
- Thomas Levy
*University of California,
San Diego*
- J. Andrew McCammon
*University of California,
San Diego*
- Donald A. Norman
*University of California,
San Diego*
- Jerrold M. Olefsky
*University of California,
San Diego School of Medicine*
- Larry R. Squire
*University of California,
San Diego School of Medicine*
- Susan S. Taylor
*University of California,
San Diego School of Medicine*
- Geoffrey M. Wahl
*Salk Institute for Biological
Studies*
- John B. West
*University of California,
San Diego School of Medicine*

**WASHINGTON, D.C.
PROGRAM COMMITTEE**

- Steven Knapp, *Chair*
George Washington University
- Norman Augustine
Lockheed Martin Corporation, ret.
- David B. Brooks
New York Times Company
- A'Lelia Bundles
Washington, District of Columbia
- Mary Sue Coleman
*Association of American
Universities*
- John J. DeGioia
Georgetown University
- Donald Graham
Graham Holdings Company
- Sanford D. Greenberg
TEI Industries, Inc.
- Irene Hirano Inouye
U.S.-Japan Council
- Alan I. Leshner
*American Association for the
Advancement of Science*
- Richard Meserve
*Covington & Burling LLP;
formerly, Carnegie Institution
for Science*
- Erin K. O'Shea
Howard Hughes Medical Institute
- Earl A. Powell III
National Gallery of Art
- Rebecca W. Rimel
Pew Charitable Trusts
- Roger Sant
The Summit Foundation
- Victoria P. Sant
The Summit Foundation
- Margaret C. Simms
Urban Institute
- David J. Skorton
Smithsonian Institution
- Patty Stonesifer
Martha's Table

Discussion Groups

Friday Forum

The Friday Forum series brings together academic and cultural leaders from the greater Boston area to discuss issues of timely concern, new books, and recently completed research. Typically on the first Friday of the month, participants gather at the House of the Academy for lunch, a short presentation by a featured speaker, and a group discussion moderated by Robert Campbell (architecture critic, *The Boston Globe*), chair of the Friday Forum.

MEETINGS

November 11, 2016

House of the Academy

The Art of Rivalry: Four Friendships, Breakthroughs, and Betrayals in Modern Art

Featured Speaker: Sebastian Smee (art critic, *The Boston Globe*)

December 2, 2016

House of the Academy

Replacing Animal Testing Using Human Organ-on-Chips

Featured Speaker: Donald Ingber (Wyss Institute for Biologically Inspired Engineering at Harvard University; Harvard Medical School; Harvard John A. Paulson School of Engineering and Applied Sciences; Boston Children's Hospital)

February 3, 2017

House of the Academy

Democracy's Detectives: Investigative Journalism in the Internet Age

Featured Speaker: Ellen Hume (Journalist)

March 3, 2017

House of the Academy

The Most Dangerous Book: The Battle for James Joyce's "Ulysses"

Featured Speaker: Kevin Birmingham (Harvard University)

May 5, 2017

House of the Academy

The Girl at the Baggage Claim: Explaining the East-West Culture Gap

Featured Speaker: Gish Jen (Writer)

June 9, 2017

House of the Academy

This African-American Life: A Memoir

Featured Speaker: Hugh Price (formerly, National Urban League)

Civic Discourse Discussion Series, initiated by the Boston-Cambridge Planning Committee

MEETINGS

February 13, 2017
Boston University

Real Discussion in a Climate of Hot Partisanship

Featured Speaker: Virginia Sapiro (Boston University)

February 28, 2017
House of the Academy

Siloed Speech on Campus

Featured Speaker: Sherry Turkle (Massachusetts Institute of Technology)

March 9, 2017

House of the Academy

#Republic: Divided Democracy in the Age of Social Media

Featured Speaker: Cass Sunstein (Harvard Law School)

April 12, 2017

House of the Academy

Is the American Liberal Order Ending?

Featured Speaker: Joseph Nye (Harvard Kennedy School)

The Public Engagement Working Group

The Public Engagement Working Group, convened under the auspices of the Public Face of Science initiative and led by James Haber (Brandeis University), provided a forum for a diverse group of scholars, including scientists, historians, and

communication experts, to draw lessons from historical case studies that could be applied to future efforts to develop public consensus on potentially controversial scientific developments.

MEETINGS

February 23, 2017
House of the Academy

Inaugural Meeting

Featured Speakers: James Haber (Brandeis University);
Lisa Randall (Harvard University)

March 30, 2017
House of the Academy

Case Study #1: Vaccines

Featured Speakers: Barry Bloom (Harvard T.H. Chan School of Public Health); Seth Mnookin (Massachusetts Institute of Technology)

April 13, 2017

House of the Academy

Case Study #2: Gene Editing

Featured Speakers: Kevin Esvelt (MIT Media Lab);
Richard O. Hynes (The Koch Institute for Integrative Cancer Research, MIT); Sophia Roosth (Harvard University)

May 11, 2017

House of the Academy

Case Study #3: Atmospheric Pollution

Featured Speakers: James Fleming (Colby College);
Philip Duffy (Woods Hole Research Center)

June 8, 2017

House of the Academy

Conclusions: Connecting to the Public

Featured Speakers: Jennifer Hochschild (Harvard University); David Kaiser (Massachusetts Institute of Technology)

Member Events

BOULDER, COLORADO

March 20, 2017

Boulder, CO

Member Gathering & Discussion: Commission on the Future of Undergraduate Education

CHICAGO, ILLINOIS

February 20, 2017

University of Chicago

Communicating Scientific Facts in an Age of Uncertainty

Featured Speakers: **Arthur Lupia** (University of Michigan), **Olufunmilayo I. Olopade** (University of Chicago Medical Center), **Robert Rosner** (University of Chicago); remarks by **Robert J. Zimmer** (University of Chicago)

FLORIDA

January 14, 2017

Naples, FL

Member Gathering

January 16, 2017

Palm Beach, FL

Member Gathering

IOWA CITY, IOWA

March 9, 2017

University of Iowa

Member Gathering in conjunction with The Lincoln Project Forum

LOS ANGELES, CALIFORNIA

*August 9, 2016

Los Angeles, CA

Los Angeles Program Committee Meeting

November 13, 2016

Los Angeles, CA

Meeting of Advisors to the Commission on the Future of Undergraduate Education

*November 13, 2016

Los Angeles, CA

Creative Forces in Entertainment and Science: The Unlikely and Invaluable Connection

Featured Speakers: **Sean M. Carroll** (California Institute of Technology), **Sherry Lansing** (Sherry Lansing Foundation), **John Lithgow** (Actor, Recording Artist). Moderator: **Geoffrey Cowan** (University of Southern California)

*July 18, 2017

Los Angeles, CA

Los Angeles Program Committee Meeting

MADISON, WISCONSIN

December 14, 2016

University of Wisconsin-Madison

Member Gathering

Featured Speakers: **Rebecca Blank** (University of Wisconsin-Madison), **Mary Sue Coleman** (Association of American Universities)

*Activity of a Local Program Committee



Arthur Lupia, Jonathan F. Fanton, Olufunmilayo I. Olopade, Eric D. Isaacs, and Robert Rosner



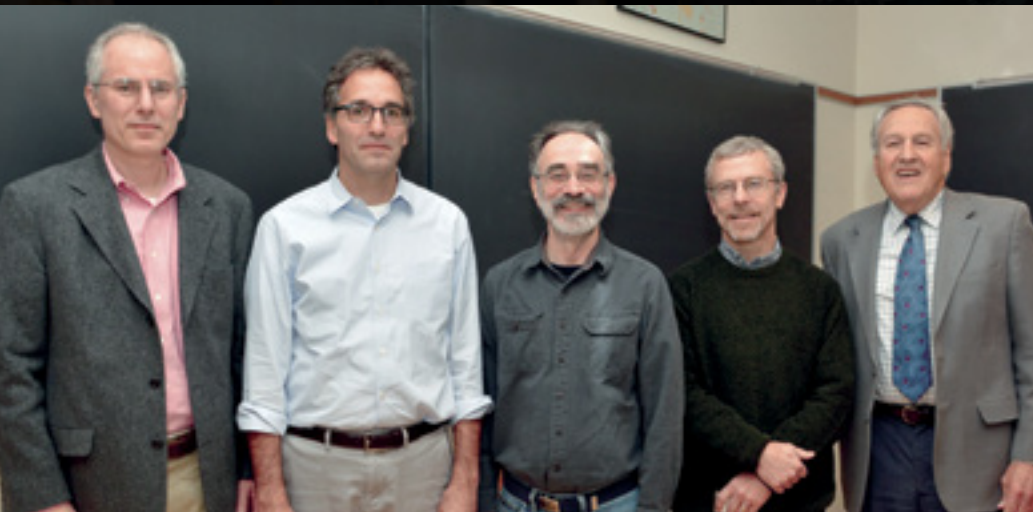
Thomas Rosenbaum, Katherine Faber, and David Lee



Geoffrey Cowan, Sean M. Carroll, Sherry Lansing, and John Lithgow



Diane Ackerman, Alan Alda, and Geneva Overholser



Newly elected members at Yale University: Scott Miller, Samuel Kortum, Shelly Kagan, Mark Hochstrasser, and Peter Schuck



Roger W. Ferguson, Jr. and Nancy Andrews

NEW HAVEN, CONNECTICUT

*November 7, 2016

Yale University

Reception for Members

*November 28, 2016

Yale University

Town Hall Meeting on the U.S. Elections

Featured Speakers: David Mayhew (Yale University),
Susan Stokes (Yale University)

*December 16, 2016

Yale University

Research Presentations: Black Holes & Beethoven

Featured Speakers: Meg Urry (Yale University),
Craig Wright (Yale University)

*February 3, 2017

Yale University

Courts and Law in the Age of Trump

Featured Speaker: Linda Greenhouse (Yale University)

*February 27, 2017

Yale University

Computer-Aided Drug Discovery

Featured Speaker: William L. Jorgensen (Yale University)

March 29, 2017

Yale University

*Reception for Yale Members of the American
Academy and the National Academies*

Featured Speaker: Peter Salovey (Yale University)

*April 14, 2017

Yale University

Why Are There So Many Different Kinds of Leaves?

Featured Speaker: Michael Donoghue (Yale University)

*May 17, 2017

Yale University

New Member Reception

NEW YORK CITY

December 12, 2016

New York, NY

Morton L. Mandel Public Lecture

Communicating Science Through Art

Featured Speakers: Diane Ackerman (Poet, Essayist),
Alan Alda (Actor, Writer, Director). Moderator: Geneva
Overholser (Democracy Fund; formerly, USC Annenberg
School for Communication and Journalism)

December 12, 2016

New York, NY

*Meeting of Advisors to the Commission on the
Future of Undergraduate Education*

Hosted by Glenn Hutchins (North Island; Silver Lake)

June 5, 2017

New York, NY

New Member Reception

Featured Speaker: Roger W. Ferguson, Jr. (TIAA)

*June 15, 2017

New York, NY

New York Program Committee Meeting

*June 26, 2017

Skadden, Arps, Slate, Meagher & Flom LLP

New York, NY

*Livestream and Discussion: Challenging Corrupt
Practices: America, Brazil, Globally*

Featured Speaker: Michael Sovern (Columbia University),
moderator

Via video: Sergio Fernando Moro (Thirteenth Federal
Criminal Court, Curitiba, Brazil), Zephyr Teachout (Ford-
ham University School of Law), Mark L. Wolf (United States
District Court for the District of Massachusetts), Robert I.
Rotberg (Harvard Kennedy School; World Peace Foundation)



Robert Millard, Alfred Spector, and Carl Pforzheimer



Maria Jasin and Scott Keeney



Veerabhadran Ramanathan, Gordon N. Gill, and David G. Victor



Elaine Sisman, Marty Fridson, and Pauline Yu



Scott D. Sagan, Joseph H. Felter, Paul H. Wise, and Debra Satz



Jonathan F. Fanton and Marc Tessier-Lavigne

PALO ALTO, CALIFORNIA

November 16, 2016
Stanford University

A Collective Moral Awakening: Ethical Choices in War and Peace

Featured Speakers: Joseph Felter (Stanford University), Scott Sagan (Stanford University), Paul Wise (Stanford University). Moderator: Debra Satz (Stanford University)

March 8, 2017
Stanford University

Livestream – 2017 Distinguished Morton L. Mandel Annual Public Lecture

Ethics and the Global War on Terror: Can Conflicts with Non-State Actors Be Fought in a Just Way?

Moderator: Paul Wise (Stanford University)

Via Video: Gabriella Blum (Harvard Law School), Neta Crawford (Boston University), Jennifer Leaning (Harvard T.H. Chan School of Public Health), Allen S. Weiner (Stanford Law School)

May 4, 2017
Stanford University

Barriers to International Scientific Collaboration Roundtable

Featured Speakers: Ann Arvin (Stanford University), Arthur Bienenstock (Stanford University), Peter Michelson (Stanford University)

PRINCETON, NEW JERSEY

*November 21, 2016
Woodrow Wilson School of Public and International Affairs, Princeton University

Where Do We Go From Here? Policy Priorities for the New Administration

Featured Speakers: Helen Milner (Princeton University), Ilyana Kuziemko (Princeton University), Brandice Canes-Wrone (Princeton University). Moderator: Nolan McCarty, (Princeton University)

PROVIDENCE, RHODE ISLAND

May 9, 2017
Brown University

Member Gathering

ST. LOUIS, MISSOURI

February 10, 2017
Washington University in St. Louis

Member Gathering

SAN DIEGO, CALIFORNIA

*September 30, 2016
University of California, San Diego
San Diego Program Committee Meeting

*November 15, 2016
University of California, San Diego
Global Warming: Current Science, Future Policy
Featured Speakers: Veerabhadran Ramanathan (University of California, San Diego), David G. Victor (University of California, San Diego). Moderator: Gordon N. Gill (University of California, San Diego School of Medicine)

*January 30, 2017
University of California, San Diego
San Diego Program Committee Meeting

*February 13, 2017
University of California, San Diego
The Future of Immigration Reform
Featured Speakers: David FitzGerald (University of California, San Diego), Tom K. Wong (University of California, San Diego). Moderator: David A. Lake (University of California, San Diego)

*May 11, 2017
University of California, San Diego
Robotics: Their Promises for the 21st Century
Featured Speaker: Henrik Christensen (University of California, San Diego). Moderator: Gordon N. Gill (University of California, San Diego School of Medicine)



Jesse Ausubel, Nancy Peretsman, and Jonathan F. Fanton



Helen Milner, Brandice Canes-Wrone, and Nolan McCarty



Jeannette M. Wing and Sylvester James Gates, Jr.



Paul LeClerc, Martha Abbott, Nancy McEldowney, and Rubén Rumbaut



Richard A. Meserve, Mary Sue Coleman,
Alan I. Leshner, Joe Palca, and Matthew P. Scott



Barry Posen, Francis J. Gavin, Stephen M. Walt, Leslie Vinjamuri, and
Francesca Giovannini

SEATTLE, WASHINGTON

May 2, 2017
University of Washington

The Lincoln Project

Featured Speakers: Robert Birgeneau (University of California, Berkeley), Ana Mari Cauce (University of Washington)

SOUTH BEND, INDIANA

March 8, 2017
University of Notre Dame

Livestream – 2017 Distinguished Morton L. Mandel Annual Public Lecture

Ethics and the Global War on Terror: Can Conflicts with Non-State Actors Be Fought in a Just Way?

Moderator: Tanisha Fazal (University of Notre Dame)

Via Video: Gabriella Blum (Harvard Law School), Neta Crawford (Boston University), Jennifer Leaning (Harvard T.H. Chan School of Public Health), Allen S. Weiner (Stanford Law School)

TEXAS

*November 7, 2016
Houston, TX

Houston Program Committee Inaugural Meeting

February 7, 2017
Austin, TX

Member Dinner & Discussion: Commission on the Future of Undergraduate Education

Featured Speaker: Michael McPherson (formerly, Spencer Foundation)

February 8, 2017
Baker Institute, Rice University

Science, Technology, and Innovation Policy in the New Administration

Featured Speakers: Sylvester James Gates, Jr. (University of Maryland, College Park), Jeannette M. Wing (Columbia University; formerly, Microsoft Research)

*May 1, 2017
Houston, TX

Houston Program Committee Meeting

WASHINGTON, D.C.

*February 27, 2017
George Washington University

Washington, D.C. Program Committee Meeting

February 28, 2017
National Press Club

Release of New Academy Report

America's Languages: Investing in Language Education for the 21st Century

Featured Speakers: Paul LeClerc (Columbia University), Nancy McEldowney (Foreign Service Institute, U.S. Department of State), Rubén Rumbaut (University of California, Irvine), Martha Abbott (American Council on the Teaching of Foreign Languages)

March 8, 2017
George Washington University

Livestream – 2017 Distinguished Morton L. Mandel Annual Public Lecture

Ethics and the Global War on Terror: Can Conflicts with Non-State Actors Be Fought in a Just Way?

Moderator: Janne Nolan (The George Washington University)

Via Video: Gabriella Blum (Harvard Law School), Neta Crawford (Boston University), Jennifer Leaning (Harvard T.H. Chan School of Public Health), Allen S. Weiner (Stanford Law School)

May 18, 2017
Carnegie Institution for Science

Communicating Science in an Age of Disbelief in Experts

Featured Speakers: Mary Sue Coleman (Association of American Universities), Alan I. Leshner (American Association for the Advancement of Science), Joe Palca (National Public Radio), Matthew P. Scott (Carnegie Institution for Science). Moderator: Richard A. Meserve (Covington & Burling LLP; formerly, Carnegie Institution for Science)



Thomas Forest Kelly and members of Blue Heron



A Celebration of the Arts and Humanities, featuring Kim Kashkashian, Diane Ackerman, Mikhail Piotrovskiy, JoAnn Falletta, Eavan Boland, Yusef Komunyakaa, and Kongjian Yu



Induction 2016 closing program, featuring Temple Grandin on "Educating Students Who Have Different Kinds of Minds"



2016 Induction Ceremony speakers Walter Isaacson, Jay D Keasling, Andrea Louise Campbell, Terry A. Plank, and Theaster Gates, Jr.



Jennifer Hochschild, Lawrence Bobo, and Charles Stewart III

CAMBRIDGE, MASSACHUSETTS

August 9, 2016

House of the Academy

The Impact of Brexit: Populism, Inequality, Sovereignty, and the Future of the International Liberal Order

Featured Speakers: Francis J. Gavin (Massachusetts Institute of Technology), Barry Posen (Massachusetts Institute of Technology), Leslie Vinjamuri (Centre on Conflict, Rights and Justice, University of London; Chatham House), Stephen M. Walt (Harvard Kennedy School)

September 14, 2016

House of the Academy

Capturing Music: The Technology of Medieval Sound

Featured Speaker: Thomas Forest Kelly (Harvard University). Performance by Blue Heron

September 18, 2016

House of the Academy

Film screening of Command and Control

September 26, 2016

House of the Academy

Public Face of Science Discussion Series Steering Group Meeting

September 29, 2016

House of the Academy

Book Talk: Lesson Plan: An Agenda for Change in American Higher Education

Featured Speaker: Michael McPherson (formerly, Spencer Foundation)

October 7, 2016

Harvard University

A Celebration of the Arts and Humanities

October 8, 2016

House of the Academy

New Members' Briefing on Academy Projects and Studies

October 8, 2016

Harvard University

Induction Ceremony

October 9, 2016

House of the Academy

Educating Students Who Have Different Kinds of Minds

Featured Speaker: Temple Grandin (Colorado State University)

*October 19, 2016

House of the Academy

Reception for Members

November 2, 2016

House of the Academy

Meeting on Human Rights

November 4, 2016

House of the Academy

Luncheon & Discussion with Congressman Michael Capuano

Featured Speaker: Michael E. Capuano (U.S. House of Representatives)

November 10, 2016

House of the Academy

Populism and the Future of American Politics

Featured Speakers: Lawrence Bobo (Harvard University), Jennifer Hochschild (Harvard University). Moderator: Charles Stewart III (Massachusetts Institute of Technology)

*November 17, 2016

House of the Academy

Boston-Cambridge Program Committee Meeting

November 18, 2016

House of the Academy

Entartete Musik

Chamber series in collaboration with the Cantata Singers



Performance by the Cantata Singers



James Cuno and Kwame Anthony Appiah



Carey Goldberg, Rebecca Saxe, Paula Hammond, and Saba Valadkhan



Jonathan F. Fanton, Talcott Parsons Prize recipient Joan Wallach Scott, Don M. Randel, and Laurel Thatcher Ulrich



Toni Morrison accepting the Emerson-Thoreau Medal

November 21, 2016

House of the Academy

Luncheon Discussion with U.S. Special Envoy to Libya

Featured Speaker: Jonathan Winer (U.S. Department of State)

December 14, 2016

House of the Academy

Winter Concert in Tribute to Leo L. Beranek

Performance by the Boston Cello Quartet, featuring members of the Boston Symphony Orchestra

January 20, 2017

House of the Academy

Weiner and Weill

Chamber series in collaboration with the Cantata Singers

February 15, 2017

House of the Academy

Staged Reading and Discussion of "Paradise" by Laura Maria Censabella

in collaboration with the Catalyst Collaborative@MIT

Featured Speakers: Paula Hammond (Massachusetts Institute of Technology), Rebecca Saxe (Massachusetts Institute of Technology), Saba Valadkhan (Case Western Reserve University), Debra Wise (Catalyst Collaborative@MIT; Underground Railway Theater; Central Square Theater). Moderator: Carey Goldberg (WBUR)

March 8, 2017

House of the Academy

2017 Distinguished Morton L. Mandel Annual Public Lecture Ethics and the Global War on Terror: Can Conflicts with Non-State Actors Be Fought in a Just Way?

Featured Speakers: Gabriella Blum (Harvard Law School), Neta Crawford (Boston University), Jennifer Leaning (Harvard T.H. Chan School of Public Health), Allen S. Weiner (Stanford Law School)

*March 23, 2017

Fish Family Foundation
Boston, MA

Boston Member Discussion: Global Security and Nuclear Issues

March 31, 2017

House of the Academy

Les Six

Chamber series in collaboration with the Cantata Singers

April 6, 2017

House of the Academy

A Celebration of the Arts & Sciences: Presentation of the Emerson-Thoreau Medal & the Talcott Parsons Prize

Featured Speakers: Toni Morrison (Princeton University), Joan Wallach Scott (Institute for Advanced Study)

*April 10, 2017

House of the Academy

Boston-Cambridge Program Committee Meeting

April 13, 2017

House of the Academy

Are Animals Natural?

Featured Speakers: Jonathan Losos (Harvard University), Harriet Ritvo (Massachusetts Institute of Technology)

April 18, 2017

House of the Academy

Our Compelling Interests: The Value of Diversity for Democracy and a Prosperous Society

in collaboration with The Andrew W. Mellon Foundation, WGBH, World Channel, and Princeton University Press
Featured Speakers: Danielle Allen (Harvard University), Earl Lewis (The Andrew W. Mellon Foundation), Deval Patrick (Bain Capital Double Impact; former Governor of Massachusetts), Amy Schulman (Polaris Partners). Moderator: Liz Cheng (WGBH and World Channel)



Concert featuring the Boston Cello Quartet



Joseph Martin and Nancy C. Andrews



Deval Patrick, Amy Schulman, Earl Lewis, Danielle Allen, and Liz Cheng



Kim Kashkashian and Laurence Lesser



Margaret Marshall and Paula Giddings



James McCarthy, Felton Earls, and Naomi Oreskes

April 19, 2017
House of the Academy

*Local Advisors Briefing on the Commission on the
Future of Undergraduate Education*

*May 2, 2017
House of the Academy
Reception for New Members

May 17, 2017
House of the Academy
How Do We See?

Featured Speakers: Charles Gilbert (The Rockefeller University), Dale Purves (Duke Institute for Brain Services).
Moderator: Ken Nakayama (Harvard University)

May 17, 2017
House of the Academy
*Dangerous Escalations: Iran, Israel & the Trump
Doctrine*
Featured Speaker: David Menashri (Tel Aviv University)

June 26, 2017
House of the Academy
*Challenging Corrupt Practices: America, Brazil,
Globally*
Featured Speakers: Sergio Fernando Moro (Thirteenth Federal Criminal Court, Curitiba, State of Paraná, Brazil), Zephyr Teachout (Fordham University School of Law), Mark L. Wolf (U.S. District Court for the District of Massachusetts). Moderator: Robert I. Rotberg (Harvard Kennedy School; World Peace Foundation)

INTERNATIONAL MEETINGS

EDINBURGH, UNITED KINGDOM

July 7, 2016
Scotland Member Gathering

JERUSALEM, ISRAEL

October 26, 2016
Israel Academy of Sciences and Humanities
Roundtable Discussion with Members in Israel

LONDON, UNITED KINGDOM

November 29, 2016
Spencer House
London Member Reception
Featured Speakers: James Cuno (The J. Paul Getty Trust), Louise M. Richardson (University of Oxford), Jacob Rothschild (Rothschild Foundation; RIT Capital Partners)

BERLIN, GERMANY

December 2, 2016
Prussian Cultural Heritage Foundation
*Berlin Member Gathering and Roundtable
Discussion*

GENEVA, SWITZERLAND

June 14, 2017
Geneva Member Gathering



Roundtable discussion with Academy members in Israel



Susan Hockfield, Patti Saris, and Daniela Rus



Dale Purves, Ken Nakayama, and Charles Gilbert



James Cuno, Lord Jacob Rothschild, Louise Richardson, and Jonathan F. Fanton at a reception in London for Academy members

Affiliates of the American Academy

The Affiliates program is a partnership between the Academy and leading colleges, universities, and cultural and scientific organizations. The Affiliates collaborate with the Academy by participating in its studies and by helping to support its efforts to advance the common good.



Amherst College
Carolyn A. "Biddy" Martin,
President



California Institute of Technology
Thomas F. Rosenbaum,
President



Duke University
Richard H. Brodhead,
President



Arizona State University
Michael M. Crow,
President



Carnegie Institution for Science
Matthew P. Scott,
President



Emory University
Claire E. Sterk,
President



Boston University
Robert A. Brown,
President



City University of New York
James B. Milliken,
Chancellor



Georgetown University
John J. DeGioia,
President



Bowdoin College
Clayton S. Rose,
President



Columbia University
Lee C. Bollinger,
President



George Washington University
Steven Knapp,
President



Brandeis University
Ronald D. Liebowitz,
President



Cornell University
Martha E. Pollack,
President



The J. Paul Getty Trust
James Cuno,
President and CEO



Brown University
Christina Hull Paxson,
President



Dartmouth College
Philip J. Hanlon,
President



Harvard University
Drew Gilpin Faust,
President



**Hebrew University
of Jerusalem**
Menahem Ben-Sasson,
President



**PennState
Pennsylvania State
University**
Eric J. Barron,
President



Tufts University
Anthony P. Monaco,
President



Indiana University
Michael A. McRobbie,
President



Pomona College
G. Gabrielle Starr,
President



University of Arizona
Ann Weaver Hart,
President



Johns Hopkins University
Ronald J. Daniels,
President



Princeton University
Christopher L. Eisgruber,
President



**University of British
Columbia**
Santa J. Ono,
President and Vice Chancellor



Lowell Observatory
W. Lowell Putnam IV,
Trustee



Rice University
David W. Leebron,
President



**University of California,
Berkeley**
Carol T. Christ,
Chancellor



**Massachusetts Institute
of Technology**
L. Rafael Reif,
President



**Rutgers, The State
University of New Jersey**
Robert L. Barchi,
President



**University of California,
Davis**
Gary May,
Chancellor



Michigan State University
Lou Anna K. Simon,
President



Smithsonian Institution
David J. Skorton,
Secretary



**University of California,
Irvine**
Howard Gillman,
Chancellor



New York University
Andrew D. Hamilton,
President



Stanford University
Marc Tessier-Lavigne,
President



**University of California,
Los Angeles**
Gene D. Block,
Chancellor



Northeastern University
Joseph Aoun,
President



Syracuse University
Kent D. Syverud,
Chancellor and President



**University of California,
Riverside**
Kim A. Wilcox,
Chancellor



Northwestern University
Morton O. Schapiro,
President



Texas A & M University
Michael K. Young,
President



**University of California,
San Diego**
Pradeep Khosla,
Chancellor

**AFFILIATES OF THE
AMERICAN ACADEMY**



University of Chicago
Robert J. Zimmer,
President



**University of
Nebraska-Lincoln**
Ronnie D. Green,
Chancellor



**Washington University
in St. Louis**
Mark S. Wrighton,
Chancellor



University of Cincinnati
Neville Pinto,
President



**University of North
Carolina at Chapel Hill**
Carol L. Folt,
Chancellor



Wellesley College
Paula A. Johnson,
President



University of Florida
W. Kent Fuchs,
President



University of Notre Dame
Rev. John I. Jenkins, C.S.C.,
President



Wesleyan University
Michael S. Roth,
President



**University of Illinois
at Urbana-Champaign**
Robert J. Jones,
Chancellor



University of Pennsylvania
Amy Gutmann,
President



Yale University
Peter Salovey,
President



University of Maine
Susan J. Hunter,
President



University of Pittsburgh
Patrick D. Gallagher,
Chancellor



University of Maryland
Wallace D. Loh,
President



**University of Southern
California**
C. L. Max Nikias,
President



University of Miami
Julio Frenk,
President



University of Virginia
Teresa A. Sullivan,
President



University of Michigan
Mark S. Schlissel,
President



**Virginia Commonwealth
University**
Michael Rao,
President



University of Minnesota
Eric W. Kaler,
President



**Virginia Polytechnic Institute
and State University**
Timothy D. Sands,
President

BOARD OF DIRECTORS

Nancy C. Andrews, *Chair of the Board*
Duke University School of Medicine

Jonathan F. Fanton, *President*
American Academy of Arts and Sciences

Diane P. Wood, *Chair of the Council; Vice Chair of the Board*
U.S. Court of Appeals,
Seventh Circuit

Alan M. Dachs, *Chair of the Trust; Vice Chair of the Board*
Fremont Group

Geraldine L. Richmond,
Secretary
University of Oregon

Carl H. Pforzheimer III,
Treasurer
Carl H. Pforzheimer and Co.

Kwame Anthony Appiah
New York University

Louise H. Bryson
The J. Paul Getty Trust

Ira Katznelson
Columbia University;
Social Science Research Council

Nannerl O. Keohane
Princeton University

John Lithgow
Los Angeles, California

Cherry A. Murray
Harvard University

Venkatesh Narayanamurti
Harvard University

Don M. Randel
American Academy of Arts
and Sciences

Larry Jay Shapiro
Washington University in St. Louis

Natasha Trethewey
Emory University

Pauline Yu
American Council of
Learned Societies

Louis W. Cabot, *Chair*
Emeritus
American Academy of Arts and
Sciences

COUNCIL

Diane P. Wood, *Chair*
U.S. Court of Appeals,
Seventh Circuit

Thomas H. Bender
New York University

Helen M. Blau
Stanford University
School of Medicine

Emery N. Brown
Massachusetts Institute
of Technology;
Harvard Medical School;
Massachusetts General Hospital

David D. Clark
Massachusetts Institute
of Technology

James Cuno
The J. Paul Getty Trust

Gordon N. Gill
University of California,
San Diego School of Medicine

Carol Gluck
Columbia University

Annette Gordon-Reed
Harvard University

Linda Greenhouse
Yale Law School

John Mark Hansen
University of Chicago

Ira Katznelson
Columbia University;
Social Science Research Council

Anthony A. Long
University of California, Berkeley

Richard A. Meserve
Covington & Burling LLP;
formerly, Carnegie Institution
for Science

Steven E. Miller
Harvard Kennedy School

Venkatesh Narayanamurti
Harvard University

Frances McCall Rosenbluth
Yale University

Robert Rosner
University of Chicago

Alfred Z. Spector
Two Sigma Investments

COUNCIL, continued

Nancy C. Andrews, *ex officio*
Duke University School of
Medicine

Alan M. Dachs, *ex officio*
Fremont Group

Carl H. Pforzheimer III,
ex officio
Carl H. Pforzheimer and Co.

Geraldine L. Richmond,
ex officio
University of Oregon

Jonathan F. Fanton, *ex officio*
American Academy of Arts
and Sciences

TRUST

Alan M. Dachs, *Chair*
Fremont Group

Philip Bredesen
Nashville, Tennessee

Louise H. Bryson
The J. Paul Getty Trust

Louis W. Cabot
American Academy of Arts
and Sciences

Ernest Cockrell
Cockrell Foundation;
Cockrell Interests, Inc.

John F. Cogan, Jr.
Pioneer Investment Management
USA, Inc.

Mark Fishman
Harvard University

Arthur Gelb
Four Sigma Corporation

Michael E. Gellert
Windcrest Partners

Arthur L. Goldstein
Ionics, Inc.

Rita Hauser
The Hauser Foundation

Stephen Heintz
Rockefeller Brothers Fund

Alberto Ibargüen
John S. and James L. Knight
Foundation

TRUST, continued

Steven S. Koblik
The Huntington Library,
Art Collections, and
Botanical Gardens

Tom Leighton
Akamai Technologies;
Massachusetts Institute
of Technology

Richard A. Meserve
Covington & Burling LLP;
formerly, Carnegie Institution
for Science

David Oxtoby
Pomona College

Susan Woods Paine
Museum of Fine Arts, Boston

Carl H. Pforzheimer III
Carl H. Pforzheimer and Co.

Anne Litle Poulet
Frick Collection

Jerry Speyer
Tishman Speyer

Marcelo M. Suárez-Orozco
University of California,
Los Angeles

Samuel O. Thier
Harvard Medical School

Kenneth L. Wallach
Central National-Gottesman, Inc.

Nancy C. Andrews, *ex officio*
Duke University School of
Medicine

Jonathan F. Fanton, *ex officio*
American Academy of Arts
and Sciences

Geraldine L. Richmond,
ex officio
University of Oregon

Diane P. Wood, *ex officio*
U.S. Court of Appeals,
Seventh Circuit

Walter B. Hewlett, *emeritus*
William and Flora Hewlett
Foundation

E. John Rosenwald, Jr.,
emeritus
J.P. Morgan

AMERICAN ACADEMY OF ARTS & SCIENCES
Norton's Woods
136 Irving Street
Cambridge, MA 02138-1996 USA

telephone 617-576-5000

facsimile 617-576-5050

email aaas@amacad.org

website www.amacad.org

 [@americanacad](https://twitter.com/americanacad)

