

AMERICAN ACADEMY
OF ARTS & SCIENCES



AMERICAN INSTITUTIONS, SOCIETY, AND THE PUBLIC GOOD

EDUCATION AND THE DEVELOPMENT OF KNOWLEDGE

GLOBAL SECURITY AND INTERNATIONAL AFFAIRS

THE HUMANITIES, ARTS, AND CULTURE

SCIENCE, ENGINEERING, AND TECHNOLOGY

20
19



Projects, Publications, and Meetings
of the Academy

With Appreciation . . .

Academy projects, publications, and meetings are supported by gifts and grants from Members, friends, foundations, corporations, Affiliates, and other funding agencies. The Academy expresses its deep appreciation for this support and to the many Members who contribute to its work.

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FROM THE PRESIDENT



Since its founding in 1780, the American Academy of Arts and Sciences has brought members together to examine new ideas, address issues of importance to the nation and the world, and “cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people.” The Academy has always played an important role in advancing the best thinking available about pressing policy challenges and important scholarly questions.


As you will see in the pages that follow, the Academy is exploring a range of topics in science, global security, education, the arts, and society. One com-

mission is examining how to prepare individuals in a diverse society to be active and engaged citizens. Another Academy project is exploring how to improve access to quality legal services for low-income Americans. The Commission on the Future of Undergraduate Education is working to advance its recommendations to help ensure that all students receive the academic, social, emotional, and financial support that will enable them to complete successfully their college journey. Our project on Meeting the Challenges of the New Nuclear Age is working to articulate a new framework to keep the world safe from nuclear conflict. A new Commission on the Arts is exploring how to involve the arts and artists in helping to bridge divides within society. And the Academy’s Public Face of Science project is examining how the public builds trust in science and evidence. These studies draw upon the expertise of hundreds of our members from diverse professions and disciplines to advance the welfare of the nation and the world.

We are grateful to the many members who support the Academy’s projects, publications, and programs. This support allows the Academy to continue to elevate the use of evidence and knowledge, foster civil discourse, and advance the common good. I look forward to working with our members to ensure that the Academy continues to achieve these goals.

David W. Oxtoby

American Institutions, Society, and the Public Good

A photograph showing a large crowd of people at an outdoor event, many holding small American flags on sticks. In the background, the dome of the U.S. Capitol building is visible under a clear sky. The image is slightly out of focus, emphasizing the flags in the foreground.

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.

PROGRAM ADVISORY COMMITTEE

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Yale University

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Susan Hanson
Clark University

Antonia Hernández
*California Community
Foundation*

William Poorvu
Harvard Business School

Kenneth Prewitt
Columbia University

James M. Stone
Plymouth Rock Companies

PROJECT Commission on the Practice of Democratic Citizenship

The Commission on the Practice of Democratic Citizenship is a multiyear initiative that will develop a plan of action for identifying and promoting the values, behaviors, and skills needed for effective citizenship and civic participation in a twenty-first-century democracy. The Commission will create a working definition of effective citizenship and compile data on current practices. The Commission will also identify factors that encourage or impede civic engagement, highlighting promising local initiatives around

the country and recommending steps that communities, institutions, and individuals can take to promote engaged citizenship. The Commission plans to meet four times over the course of its term; the first meeting took place in April 2018 and the second was held in September 2018. The Commission will publish several papers on key facets related to the practice of citizenship and will set an agenda for future research. The release of the Commission's final report and recommendations will take place in early 2020.

COMMISSION CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
*Citizen University;
Aspen Institute Citizenship
and American Identity
Program*

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Lisa Garcia Bedolla
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*John S. and James L. Knight
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Marie Griffith
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Wallace Jefferson
*Alexander Dubose &
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*University of California,
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Kei Kawashima-Ginsberg
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Tufts University*

Yuval Levin
National Affairs

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*The New American Leaders
Project*

danah boyd
Data & Society

Dee Davis
Center for Rural Strategies

Stacy Donohue
The Omidyar Network

Hahrie Han
*University of California,
Santa Barbara*

Antonia Hernández
*California Community
Foundation*

Carolyn J. Lukensmeyer
*National Institute for
Civil Discourse*

Martha McCoy
Everyday Democracy

CONTINUED Commission on the Practice of Democratic Citizenship

Lynn Nottage
*Columbia University
School of the Arts*

Steven Olikara
Millennial Action Project

Norman Jay Ornstein
American Enterprise Institute

Bob Peck
FPR Partners

Pete Peterson
Pepperdine University

Miles Rapoport
Harvard University

Michael Schudson
*Columbia University
School of Journalism*

Sterling Speirn
*National Conference on
Citizenship*

**Marcelo M.
Suárez-Orozco**
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Los Angeles*

Ben Vinson
*Case Western Reserve
University*

Diane P. Wood
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Seventh Circuit*

Judy Woodruff
MacNeil/Lehrer Productions

Ethan Zuckerman
*Center for Civic Media,
Massachusetts Institute
of Technology*

PROJECT STAFF

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Gabriela Farrell

Darshan Goux

Natoschia Scruggs

FUNDER

S. D. Bechtel, Jr. Foundation

PROJECT MEETINGS

Meeting of the Commission

September 17–18, 2018
Rockefeller Brothers Fund
New York City

The second meeting of the full Commission on the Practice of Democratic Citizenship focused on refinement of the Commission's guiding assumptions and theory of action as well as responses to the work plans of the Commission's three working groups: Data and Indicators, Engagement

Design, and Crosswalks between Civic and Social Engagement. In addition, the Commission developed a plan of action for conducting a range of conversations with Americans around the country and identified a framework for those discussions.

MEETING CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
*Citizen University;
Aspen Institute Citizenship
and American Identity
Program*

GUEST SPEAKER

Nuala O'Connor
*Center for Democracy
and Technology;
Knight Commission on Trust,
Media, and Democracy*

Roundtable Discussion

December 4, 2018
The Cosmos Club
Washington, D.C.

This roundtable discussion offered Commission Cochairs and staff the opportunity to gain insights from Washington-area Academy members and to test some of the Commission's working hypotheses. In particular, the

conversation focused on what areas in the field of civic engagement and citizenship have been well covered by previous groups, and where the Commission could make new contributions.

MEETING CHAIRS

Jonathan Fanton
American Academy of Arts and Sciences

Steven Knapp
George Washington University

Framework Development Workshop

February 6, 2019
House of the Academy
Cambridge, MA

The Commission held a one-day workshop to gain insight from experts into the background of the most important recommendations in four areas of focus: fostering a healthy and energetic civil society; advocating for ways to make political institutions more responsive to citizens; identifying

and promoting the values, norms, and narratives that support a healthy democratic civil society and healthy political institutions; and highlighting initiatives in K-12 education and lifelong learning that can provide ongoing reinforcement for a vibrant democratic society.

MEETING CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
*Citizen University;
Aspen Institute Citizenship and American Identity Program*

GUEST SPEAKERS

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iCivics

Mark Gearan
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Harvard University*

Joseph Kahne
*University of California,
Riverside*

Kei Kawashima-Ginsberg
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Tufts University*

Alan Khazei
Be the Change

Peter Levine
*Tisch College of Civic Life,
Tufts University*

John Pudner
Take Back Our Republic

Miles Rapoport
Harvard Kennedy School

Rob Richie
FairVote

Shirley Sagawa
Service Year Alliance

Bryan Stevenson
Equal Justice Initiative

Ian Vandewalker
*Brennan Center for Justice,
New York University*

Ethan Zuckerman
*Center for Civic Media,
Massachusetts Institute of Technology*

Meeting of the Commission

April 1–2, 2019
Southern Methodist University
Dallas, TX

The third meeting of the full Commission on the Practice of Democratic Citizenship represented the shift of the Commission's focus from information gathering to shaping recommendations. Feedback from the numerous engagements conducted around the country helped guide a

discussion of potential recommendations (and the connections between them) that would gain bipartisan support for the Commission's report and would maximize impact at multiple levels of American society.

MEETING CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
*Citizen University;
Aspen Institute Citizenship
and American Identity
Program*

LISTENING SESSIONS

In order to gather information about civic engagement initiatives around the country, the Commission on the Practice of Democratic Citizenship has been holding listening sessions in communities from coast to coast to hear from business leaders, grassroots organizers, refugees, elected officials, college students, community and civic leaders, Americans with disabilities, and educators. The Commission is committed to hearing a range of voices in order

to inform a final report and recommendations that reflect the views of a diverse array of Americans on what it means to live in a twenty-first-century democracy. In addition to gaining valuable insights into what is both inhibiting and encouraging civic engagement, the Commission has built through these engagements a wide network of partner organizations that can help disseminate the final recommendations when they are issued in 2020.

Charlotte, North Carolina
Focus groups with two groups of non-voters
September 5, 2018

Bar Harbor, Maine
Online survey of local citizens (organized by National Institute for Civil Discourse)
October 2018

Los Angeles, California
Pepperdine University–West LA Campus
Discussion with right-leaning activists and community leaders
January 10, 2019

Calabasas, California
Pepperdine University–Calabasas Campus
Conversation with municipal employees and elected officials
January 11, 2019

Los Angeles, California
Summit with local thought leaders
January 12, 2019

Los Angeles, California
(hosted by California Community Foundation)
Lunch meeting with community organizers and grassroots leaders
January 12, 2019

Lowell, Massachusetts
Cambodian Mutual Assistance Association
Discussion with Cambodian refugees
(under the age of forty)
February 20, 2019

Annapolis, Maryland
United States Naval Academy
Classroom discussion with United States Naval Academy midshipmen
February 21, 2019



Top: Generations of Somali immigrant women after a listening session in Minnesota.
Bottom: Members of the Whitworth University community gather in story circles to discuss their experiences with democracy.

CONTINUED Listening Sessions for the Commission on the Practice of Democratic Citizenship

Annapolis, Maryland
United States Naval Academy
Meeting with United States Naval Academy faculty
(civilian and officers)
February 21, 2019

Lowell, Massachusetts
Cambodian Mutual Assistance Association
Discussion with Cambodian refugees
(over the age of forty)
February 22, 2019

Dover-Foxcroft, Maine
Dover-Foxcroft Town Hall
Community discussion with AARP members
February 26, 2019

Bangor, Maine
Bangor Public Library
Small group discussion with local residents
February 26, 2019

Ellsworth, Maine
Ellsworth Public Library
Small group discussion with community leaders
February 27, 2019

Lowell, Massachusetts
Private home
Discussion with political and civic leaders
February 28, 2019

Lowell, Massachusetts
International Institute of New England
Discussion with Congolese refugees
March 4, 2019

Dallas, Texas
Southern Methodist University
Focus group with Chinese immigrants
March 9, 2019

Greensboro, North Carolina
Independent Voting
Focus group with independent voters
March 11, 2019

Spokane, Washington
Whitworth College
Story circle and group discussion with students,
faculty, and community members
March 14, 2019

Dallas, Texas
Southern Methodist University
Focus group with Indian immigrants
March 16, 2019

New York, New York
Union Theological Seminary
Group discussion with local faith leaders
March 20, 2019

New York, New York
Union Theological Seminary
Group discussion with Union Theological Seminary
students and recent graduates
March 20, 2019

New York, New York
Exodus Transitional Community
Small group discussion with formerly incarcerated
residents and leaders
March 21, 2019

St. Louis Park, Minnesota
Women Organizing Women Network
Group discussion with Somali immigrant women
March 22, 2019

St. Paul, Minnesota
Knight Foundation
Conversation with community leaders
March 22, 2019

Lowell, Massachusetts
International Institute of New England
Discussion with Afghani refugees
April 11, 2019

Akron, Ohio
Knight Foundation & Ohio and Erie Canalway Coalition
Focus group with community leaders
April 12, 2019

Cleveland, Ohio
National Institute for Civil Discourse
America Speaks community summit
April 13, 2019

Paoli, Indiana
Center for Rural Engagement, Indiana University
Conversation with rural community leaders
April 16, 2019



Top: Ellsworth Public Library—Academy staff have held listening sessions across the country at libraries, schools, community centers, and universities, among other places. **Bottom:** Cambodian refugees recount their journeys to the United States and what it means to live in an American democracy.

CONTINUED Listening Sessions for the Commission on the Practice of Democratic Citizenship

Farmville, Virginia
Longwood University
Three group discussions with Longwood University
faculty and staff
April 16–17, 2019

Farmville, Virginia
Longwood University
Sociology class discussion with undergraduates
April 16, 2019

Farmville, Virginia
Moton Civil Rights Museum
Conversation with community leaders
April 16, 2019

Lexington, Kentucky
Knight Foundation & Blue Grass Community
Foundation
Group discussion with recent immigrants
April 23, 2019

Lexington, Kentucky
Offices of Frost Brown Todd
Discussion with conservative activists
April 23, 2019

Lexington, Kentucky
Knight Foundation & Blue Grass Community Foundation
Conversation with Moms for McGrath activists
April 23, 2019

Lexington, Kentucky
Knight Foundation & Blue Grass Community Foundation
Group discussion with young philanthropists
April 24, 2019

Lexington, Kentucky
Knight Foundation & Blue Grass Community Foundation
Conversation with grassroots activists and organizers
April 24, 2019

Lexington, Kentucky
Knight Foundation & Bluegrass Community Foundation
Group discussion with young professionals of color
April 24, 2019



Program Officer **Darshan Goux** (American Academy of Arts and Sciences) leads community leaders in Bangor, Maine, on a thought exercise about participation in the country's democracy.

Phoenix, Arizona
Ability 360
Conversation with community members with disabilities
May 1, 2019

Phoenix, Arizona
Independent Voting & Highground Public Affairs
Group discussion with independent voters
May 1, 2019

Phoenix, Arizona
Vitalyst Health Foundation & Center for the Future of Arizona
Conversation with local civic leaders
May 2, 2019

Phoenix, Arizona
Opportunity Youth United
Discussion with young community residents (under the age of twenty-five)
May 2, 2019

Phoenix, Arizona
Pastor Center for Politics and Public Service, Arizona State University & Center for the Future of Arizona
Discussion with participatory budgeting activists
May 3, 2019

Jackson, Mississippi
Mississippi Center for Public Policy
Conversations with conservative thought leaders
June 5, 2019

PROJECT Making Justice Accessible

The two projects of the Making Justice Accessible initiative address the challenge of providing legal services for low-income Americans. The first project, on Data Collection and Legal Services for Low-Income Americans, will identify the sources of existing data on legal services and unrepresented civil litigation nationwide. The project will also create a blueprint for future data collection efforts, including establishing a research agenda for scholars, practitioners, and policy-makers. Participants include representatives of the courts, legal aid providers, and foundations as well as legal scholars and social scientists. The second project, on Designing Legal Services for the 21st Century, will gather information about the national need for improved legal access and advance a set of clear, national

recommendations for closing the “justice gap” between supply of and demand for legal services.

An open-access issue of *Dædalus* on “Access to Justice,” published in Winter 2019, provides a multidisciplinary examination of this crisis, from the challenges of providing quality legal assistance to more people, to the social and economic costs of an often unresponsive legal system, to the opportunities for improvement offered by new technologies, professional innovations, and fresh ways of thinking about the crisis. The two projects of this initiative and the issue of *Dædalus* emerged from a 2015 symposium sponsored by the Academy’s Exploratory Fund on the state of legal services for low-income Americans.

DATA COLLECTION
AND LEGAL SERVICES
FOR LOW-INCOME
AMERICANS

PROJECT CHAIRS

Mark Hansen
University of Chicago

Rebecca Sandefur
*University of Illinois
at Urbana-Champaign*

DESIGNING LEGAL
SERVICES FOR THE
21ST CENTURY

PROJECT CHAIRS

John Levi
*Legal Services Corporation;
Sidley Austin LLP*

Martha Minow
Harvard Law School

Kenneth Frazier
Merck & Co.

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John Tessitore
Natalia Carbullido

FUNDER

David M. Rubenstein
Enhancement Fund

PROJECT PUBLICATION

“Access to Justice,” Dædalus

edited by Lincoln Caplan, Lance Liebman & Rebecca Sandefur (2019)

PROJECT MEETINGS

Data Collection and Legal Services for Low-Income Americans

June 26–27, 2018
House of the Academy
Cambridge, MA

Participants discussed opportunities for improved data collection by legal service providers and the legal profession, pilot projects around the country, and the challenges of federal data collection.

MEETING CHAIRS

Rebecca Sandefur
*University of Illinois
at Urbana-Champaign*

Mark Hansen
University of Chicago

Designing Legal Services for the 21st Century

July 17–18, 2018
House of the Academy
Cambridge, MA

During this project meeting, participants discussed the state of legal services, focusing on needs related to health care, family law, housing law, and services for veterans, as well as the potential impact of technological innovation.

MEETING CHAIRS

Martha Minow
Harvard Law School

John Levi
*Legal Services Corporation;
Sidley Austin LLP*

SUBCOMMITTEE MEETINGS:

DATA COLLECTION AND LEGAL SERVICES FOR LOW-INCOME AMERICANS

Essential Facts about Civil Justice

March 1, 2019 • April 18, 2019

This subcommittee is developing a short monograph that identifies the essential facts that should be collected about civil justice activity and the entities that are best placed to collect that information.

MEETING CHAIR

Rebecca Sandefur
*University of Illinois
at Urbana-Champaign*

Model Data Access Standards

March 1, 2019 • April 25, 2019

This group is developing a set of data access standards that should guide access to and use of civil justice data for research purposes. In addition to developing the standards themselves, the group may decide to develop materials that would facilitate the enactment of those standards, such as model memoranda of understanding between researchers and those who collect civil justice data, or guidance about contract terms between justice sector organizations and service vendors.

MEETING CHAIR

Erika Rickard
The Pew Charitable Trusts

SUBCOMMITTEE MEETINGS: DESIGNING LEGAL SERVICES FOR THE 21ST CENTURY**Veterans Subcommittee Meetings**

February 15, 2019 • April 14, 2019

MEETING CHAIRSNan Heald
*Pine Tree Legal Assistance*Martha Minow
*Harvard Law School***Family Subcommittee Meetings**

March 11, 2019 • April 24, 2019

MEETING CHAIRSTonya Brito
*University of Wisconsin
Law School*Lance Liebman
*Columbia Law School***Housing Subcommittee Meetings**

February 25, 2019 • April 24, 2019

MEETING CHAIRSColleen Cotter
*Legal Aid Society
of Cleveland*Diane P. Wood
*U.S. Court of Appeals,
Seventh Circuit***Health Care Subcommittee Meetings**

March 11, 2019 • April 25, 2019

MEETING CHAIRSJohn Levi
*Legal Services Corporation;
Sidley Austin LLP*Allison Rice
*Duke University
School of Law***Innovation Subcommittee Meetings**


March 8, 2019 • April 25, 2019

MEETING CHAIRSElizabeth Chambliss
*University of South Carolina
School of Law*Andrew Perlman
Suffolk University Law School

Panel discussion at Politics and Prose Bookstore on Access to Justice: (left to right) **Rebecca Sandefur** (University of Illinois at Urbana-Champaign), **Kenneth Frazier** (Merck & Co.), **Martha Minow** (Harvard Law School), and **David Rubenstein** (The Carlyle Group)



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.

PROGRAM ADVISORY COMMITTEE

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formerly, Spencer Foundation

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Philip Bredesen
former Governor of Tennessee

Kathleen McCartney
Smith College

Paul Sagan
Akamai Technologies

PROJECT Commission on the Future of Undergraduate Education

The Commission on the Future of Undergraduate Education is a multiyear initiative charged with examining the current state of American undergraduate education, projecting the nation's short-term and long-term educational needs, and offering recommendations to strengthen all aspects of undergraduate education. The Commission – whose members include leaders from higher education, philanthropy, business, and government – reviewed the research and data; met with students and faculty members, experts, and state and federal policy-makers; and produced a data-based primer on the student journey through college, four in-depth research papers, and a comprehensive

final report. The key idea emerging from this body of work is that what was once a challenge of quantity in American undergraduate education, of enrolling as many students as possible, is increasingly a challenge of educational quality – of making sure that all students receive the education they need to succeed, that they are able to complete the studies they begin, and that they can do all this affordably. The Commission is engaging in a range of outreach activities through June 2020 to make its work as widely read as possible and to advance its recommendations around quality, completion, and affordability.

COMMISSION CHAIRS

Roger Ferguson, Jr.
TIAA

Sandy Baum
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*formerly, Xerox PARC
Research*

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*American Academy of Arts
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Sherry Lansing
Sherry Lansing Foundation

COMMISSION MEMBERS

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Northeastern University

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Northrop Grumman

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*Kissinger Associates; formerly,
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*Columbia University
Graduate School of
Journalism*

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University of Michigan

Carl A. Cohn
*California Collaborative for
Educational Excellence*

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*University of Maryland,
Baltimore County*

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CONTINUED Commission on the Future of Undergraduate Education

Monica Lozano
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Hilary Pennington
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Michelle Weise
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Judith Scott-Clayton
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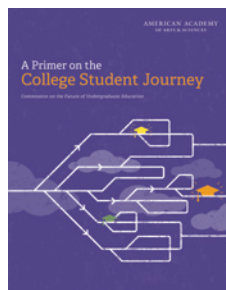
Beth Niegelsky

FUNDERS

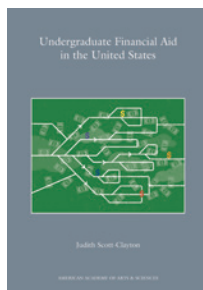
Carnegie Corporation of New York

TIAA Institute

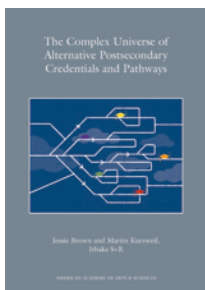
PROJECT PUBLICATIONS



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



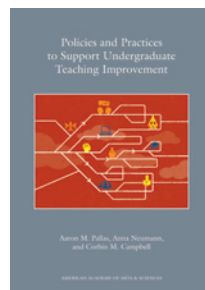
Undergraduate Financial Aid in the United States
Judith Scott-Clayton (American Academy of Arts and Sciences, 2017)



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



The Economic Impact of Increasing College Completion
Sophia Koropecyk, Chris Lafakis, and Adam Ozimek, Moody's Analytics; Foreword by Michael S. McPherson (American Academy of Arts and Sciences, 2017)



Policies and Practices to Support Undergraduate Teaching Improvement
Aaron Pallas, Anna Neumann, and Corbin Campbell (American Academy of Arts and Sciences, 2017)



The Future of Undergraduate Education, The Future of America
(American Academy of Arts and Sciences, 2017)

PROJECT MEETINGS

Systemic Change in Undergraduate STEM Education

September 6, 2018
National Academies of Sciences, Engineering,
and Medicine
Washington, D.C.

Program Director **Francesca Purcell** (American Academy of Arts and Sciences) participated in a panel discussion at the National Academies of Sciences, Engineering, and Medicine's Roundtable on System Change in Undergraduate STEM Education. The discussion explored the various forces affecting and shaping higher education and its future and the implications of these changes specifically for undergraduate STEM education.

Consortium on Financing Higher Education

October 17, 2018
California Institute of Technology
Pasadena, CA

Commission Cochair **Michael McPherson** (formerly, Spencer Foundation) delivered a keynote address at the annual meeting of the Consortium on Financing Higher Education on the future of undergraduate education and the implications for colleges and universities in making good decisions in a constrained economic environment.

Minnesota's Private Colleges: Implications from *The Future of Undergraduate Education*

October 31, 2018
Augsburg University
Minneapolis, MN

Commission Cochair **Michael McPherson** met with several presidents at the Minnesota Private College Council's semi-annual meeting to provide an overview of the key themes from the Commission's report, as well as engage in discussions focused on college affordability.

A Dialogue on the Future of Higher Education in America

November 27, 2018
Wachtel, Lipton, Rosen and Katz
New York, NY

Academy President **Jonathan Fanton** and Commission Cochairs **Michael McPherson** and **Roger Ferguson, Jr.** (TIAA) partnered with Academy member **Martin Lipton** (New York University Board of Trustees) and **Kathryn Wylde** (Partnership for New York City) to bring together over twenty board chairs and presidents from area colleges and universities. The key themes of the meeting focused on improving undergraduate teaching; examining the role of part-time faculty; increasing completion rates; addressing affordability; and expanding partnerships with business and industry.

Strengthening Undergraduate Teaching

December 5–6, 2018
House of the Academy
Cambridge, MA

Commission Cochair **Michael McPherson** and **Pam Grossman** (University of Pennsylvania) chaired a meeting that brought together dozens of researchers, practitioners, and institutional leaders to examine the current state of the research on and use of effective teaching practices; highlight individual and group efforts dedicated to this work; and consider how Academy members and other organizations can advance the widespread adoption of skillful college teaching.

***Dædalus* Authors' Conference**

December 6–7, 2018
House of the Academy
Cambridge, MA

Guest editors **Michael McPherson** (formerly, Spencer Foundation) and **Sandy Baum** (Urban Institute) convened the authors writing for the *Dædalus* issue on the undergraduate educational experience to discuss and provide feedback on their draft essays. The authors include scholars and experts from the fields of education, psychology, history, economics, political theory, and the natural sciences.

Texas A&M Board of Regents' Committee on Academic and Student Affairs

January 16, 2019
Texas A&M University
College Station, TX

Sandy Baum spoke at the Texas A&M Board of Regents' Committee on Academic and Student Affairs meeting about the Commission's recommendations around college affordability, teaching, and completion as well as specific recommendations for higher education leaders.

Washington State Higher Education Leaders and Policy-Makers

February 20, 2019
Lord Mansion
Olympia, WA

Michael McPherson and **Sandy Baum** met with leaders from colleges and universities as well as with state policy-makers, including the lieutenant governor and the governor's senior education advisor, to discuss the three key recommendations from the Commission's report: affordability, completion, and quality. The Academy collaborated on this meeting with the College Promise Coalition, the Washington Student Achievement Council, and the University of Washington.

University of Houston Future of Higher Education Conference

March 28, 2019
Hilton University of Houston
Houston, TX

Commission members **Michael McPherson**, **Sandy Baum**, and **Michelle Weise** (Strada Education Network) gave presentations related to the key findings of the Commission's work. The several hundred participants at the conference included leaders from two- and four-year institutions as well as high schools, members of the business community and from philanthropic organizations, and policy-makers.

Maryland Higher Education Commission

April 25, 2019
Baltimore, MD

Commission member **Sandy Baum** delivered a keynote address at the Maryland Higher Education Commission's biennial Maryland College Completion Summit. Her presentation featured data and findings from the Commission's work as well as recommendations to help the state reach its goals of having at least 55 percent of Maryland's adults, between the ages of twenty-five and sixty-four, earning at least an associate's degree by the year 2025.

"I Have A Dream" Foundation

June 5, 2019
New York, NY

Program Director **Francesca Purcell** facilitated a discussion among the board members, senior staff, and affiliate executive directors of the "I Have A Dream" Foundation about the systemic barriers students from under-resourced communities face in getting to and through college, and how a postsecondary credential affects the lives of graduates. The conversation also explored how the Foundation can better support students in completing a quality postsecondary program for long-term professional and personal success.



Top: Participants at the University of Houston's Future of Higher Education Conference learn about the Commission's key findings. **Bottom:** **Michael McPherson** (formerly, Spencer Foundation) and **Sandy Baum** (Urban Institute) discuss the Commission's work with higher education leaders and policy-makers in the State of Washington.

PROJECT IN DEVELOPMENT A Study on K-12 Education

The Academy is engaging in a series of sounding meetings to identify and refine areas of inquiry in K-12 education that would benefit from a multidisciplinary, evidence-based analysis. From fall 2018 to spring 2019 the Academy held nine sounding meetings across the country (in Chicago, Los Angeles, Palo Alto, San Francisco, Seattle, New York, Cambridge, Philadelphia, and Nashville), cohosted by a local member, that engaged more than a hundred individuals (including thirty-eight Academy members) in education research, administration, teaching, philanthropy,

and business. Common themes discussed at the soundings include the challenges of scaling reform initiatives and achieving systemic change; issues of educational inequity associated with race, ethnicity, and socioeconomic status; the recruitment, training, and retention of high-quality teachers and school leaders; achieving universal literacy by the end of third grade; public perceptions of K-12 education; the nature, purpose, and delivery of K-12 curricula; and the need to address students' challenges beyond the classroom.

FUNDERS

*Louise Henry Bryson and
John E. Bryson*

*The Academy's New
Initiatives Fund*

David Rockefeller, Jr.

SOUNDING MEETINGS

CHICAGO

October 24, 2018
The John D. and Catherine T. MacArthur Foundation
Chicago, IL

HOST

Jonathan Fanton
American Academy of Arts and Sciences

LOS ANGELES

November 4, 2018
The Peninsula Beverly Hills
Beverly Hills, CA

HOSTS

Jonathan Fanton
American Academy of Arts and Sciences

Louise Bryson
J. Paul Getty Trust

PALO ALTO

November 7, 2018
Learning Policy Institute
Palo Alto, CA

HOSTS

Jonathan Fanton
American Academy of Arts and Sciences

Linda Darling-Hammond
*Stanford Graduate School of Education;
Learning Policy Institute*

SAN FRANCISCO

November 8, 2018
S.D. Bechtel, Jr. Foundation
San Francisco, CA

HOSTS

Jonathan Fanton
American Academy of Arts and Sciences

Anthony Bryk
Carnegie Foundation for the Advancement of Teaching

SEATTLE

November 9, 2018
 Amazon
 Seattle, WA

HOSTS

Jonathan Fanton
American Academy of Arts and Sciences

Andy Jassy
Amazon Web Services

NEW YORK

January 17, 2019
 The Wallace Foundation
 New York, NY

HOSTS

David Oxtoby
American Academy of Arts and Sciences

Will Miller
The Wallace Foundation

CAMBRIDGE

March 6, 2019
 House of the Academy
 Cambridge, MA

HOST

David Oxtoby
American Academy of Arts and Sciences

PHILADELPHIA

March 28, 2019
 Neubauer Family Foundation
 Philadelphia, PA

HOSTS

David Oxtoby
American Academy of Arts and Sciences

Joseph Neubauer
formerly, Aramark Corporation

NASHVILLE

May 20, 2019
 Loews Vanderbilt Hotel
 Nashville, TN

HOSTS

David Oxtoby
American Academy of Arts and Sciences

Philip Bredesen
former Governor of Tennessee

MURFREESBORO

May 21, 2019
 Middle Tennessee State University
 Murfreesboro, TN

HOST

Philip Bredesen
former Governor of Tennessee

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 crucial issues affecting a global community. Projects underway in this area engage with pressing strategic, development, and moral questions that underpin relations among people, communities, and states worldwide. Each initiative embraces a broad conception of security as the interaction among human, national, and global security imperatives. Project recommendations move beyond the idea of security as the absence of war toward higher aspirations of collective peace, development, and justice.



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Paul Wise
Stanford University

Antonia Chayes
Tufts University

Martha Finnemore
George Washington University

Barry Posen
Massachusetts Institute of Technology

PROJECT Meeting the Challenges of the New Nuclear Age, Phase One

The global nuclear order is evolving today along three main dimensions: 1) the nuclear posture of several nuclear weapons states has changed because of the possible 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 multipolar world.

Phase one of the project will identify the major dangers generated by the dynamics of a multipolar nuclear world – dangers that pose the greatest threat of inadvertent nuclear war; offer alternative approaches to addressing each of these dangers and then facilitate discussions with relevant communities in the United States and abroad; and encourage and assist policy-makers, Congress, the analytical community, and the media to think systematically about a world

that is now multipolar. The project has published three research papers that have been shared with diverse audiences, such as domestic and international policy-makers, scholars and students of nuclear affairs, and leaders of international organizations. In Spring 2020, the project will publish an issue of *Dædalus*, which will be accompanied by an outreach strategy targeting relevant policy-makers and academics.

Meeting the Challenges of the New Nuclear Age is rooted in the critically important work on arms control that the Academy conducted from 1958 to 1960 to prevent a nuclear confrontation between the United States and the Soviet Union. During that time Academy Fellows gathered monthly to build a cooperative framework between the United States and the Soviet Union based on the limitations of the nuclear stockpile and the establishment of mutual vulnerability between the two rivals. The group included Donald Brennan, Edward Teller, Henry Kissinger, and Thomas Schelling, among others.

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Christopher Chyba
Princeton University

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Janne Nolan†
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Scott D. Sagan
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Jon Wolfsthal
Nuclear Crisis Group

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Carnegie Endowment for International Peace

Mark Bell
University of Minnesota

CONTINUED Meeting the Challenges of the New Nuclear Age, Phase One

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formerly, U.S. Department of Energy and U.S. National Nuclear Security Administration

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Massachusetts Institute of Technology

Sumit Ganguly
Indiana University, Bloomington

Francis J. Gavin
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Michael Krepon
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Massachusetts Institute of Technology

Janne Nolan†
George Washington University

Olga Oliker
International Crisis Group; formerly, Center for Strategic and International Studies

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

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

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Michael Swaine
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Nina Tannenwald
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Temple University

Keren Yarhi-Milo
Princeton University

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Alan M. Dachs

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Richard Rosenberg

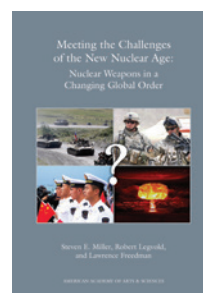
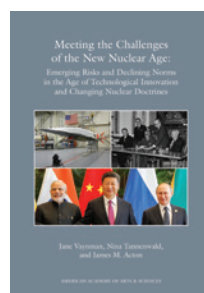
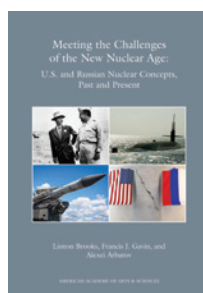
Kenneth L. and Susan S. Wallach

† Deceased

PROJECT PUBLICATIONS

Meeting the Challenges of the New Nuclear Age: U.S. and Russian Nuclear Concepts, Past and Present
Linton Brooks, Alexei Arbatov, and Francis J. Gavin
(American Academy of Arts and Sciences, 2018)

Meeting the Challenges of the New Nuclear Age: Emerging Risks and Declining Norms in the Age of Technological Innovation and Changing Nuclear Doctrines
Nina Tannenwald and James M. Acton, with an Introduction by Jane Vaynman
(American Academy of Arts and Sciences, 2018)



Meeting the Challenges of the New Nuclear Age: Nuclear Weapons in a Changing Global Order
Steven E. Miller, Robert Legvold, and Lawrence Freedman
(American Academy of Arts and Sciences, 2019)

PROJECT MEETINGS

Strategic Stability Working Group Meeting

October 31–November 1, 2018
Carnegie Endowment for International Peace
Washington, D.C.

This meeting brought together a group of scholars and current and former policy-makers to examine whether strategic stability is still relevant and viable in a multipolar

nuclear world, and its role in the trilateral relationships between the United States, Russia, and China and India, Pakistan, and China.

MEETING CHAIRS

Robert Legvold
Columbia University

Christopher Chyba
Princeton University

Dædalus Authors' Meeting

February 14–15, 2019
House the Academy
Cambridge, MA

Contributors to the *Dædalus* issue on “Meeting the Challenges of the New Nuclear Age” discussed drafts of their essays and identified key themes in the volume.

MEETING CHAIRS

Robert Legvold
Columbia University

Christopher Chyba
Princeton University

Dædalus Authors' Workshop

June 9–11, 2019
House of the Academy
Cambridge, MA

Authors in the *Dædalus* issue shared feedback on revised versions of their essays and discussed some of the key ideas from the project that will inform the outreach phase of the project.

MEETING CHAIRS

Robert Legvold
Columbia University

Christopher Chyba
Princeton University



Participants at the *Dædalus* Authors' Workshop — **front row:** Olga Olikier (International Crisis Group), Carmen Wunderlich (Peace Research Institute Frankfurt), James Timbie (Stanford University), Nina Tannenwald (Brown University), Jon Wolfsthal (Nuclear Crisis Group); **back row:** Robert Legvold (Columbia University), Scott Sagan (Stanford University), Christopher Chyba (Princeton University), Anya Fink (University of Maryland), James Acton (Carnegie Endowment for International Peace), and James Cameron (King's College London)

PROJECT Meeting the Challenges of the New Nuclear Age, Phase Two: Deterrence and New Nuclear States

Phase two of Meeting the Challenges of the New Nuclear Age will produce an edited volume of innovative and policy-relevant essays on challenges created by the emergence of “new” nuclear weapons states such as North Korea, and potential proliferators, such as Iran, Saudi Arabia, Japan, South Korea, and Turkey, among others. The study will also explore other nuclear weapons states, including India, Pakistan, and Israel. These states are de facto nuclear weapons states but operate outside of any established multilateral nuclear frameworks such as the Nuclear Non-Proliferation Treaty and the Nuclear Suppliers Group. Deterrence and New Nuclear States would investigate deterrence and

defense implications facing small nuclear force-countries and potential proliferators. The study will focus more on regional and sub-regional nuclear dynamics that could further destabilize an already undermined nuclear order.

The edited volume will be published by a university press and will be accompanied by outreach activities aimed at nuclear policy-makers (primarily in the United States) and academic centers and think tank institutes with a specific focus on nuclear studies.

PROJECT CHAIRS

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Vipin Narang
Massachusetts Institute of Technology

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John F. Cogan, Jr.
Lester Crown
Alan M. Dachs
Bob and Kristine Higgins
Richard Rosenberg
Kenneth L. and Susan S. Wallach



Vipin Narang (Massachusetts Institute of Technology) and **Scott Sagan** (Stanford University)

PROJECT MEETINGS

Deterrence and New Nuclear States Exploratory Meeting

April 24, 2019
House of the Academy
Cambridge, MA

Members of the project's advisory group met to identify some of the key issues concerning deterrence and new nuclear states that will be addressed in the project's forthcoming edited volume. Topics of discussion included

nuclear testing and breakout, strategic stability and credible deterrence, the psychology of deterrence, and nuclear doctrine and international law.

MEETING CHAIRS

Scott D. Sagan
Stanford University

Vipin Narang
*Massachusetts Institute
of Technology*

KEYNOTE SPEAKERS

Francesca Giovannini
*American Academy of Arts
and Sciences; Comprehensive
Nuclear-Test-Ban Treaty
Organization*

Barry Posen
*Massachusetts Institute
of Technology*

Gary Samore
Brandeis University



Rose McDermott (Brown University) and **Francesca Giovannini** (American Academy of Arts and Sciences; Comprehensive Nuclear-Test-Ban Treaty Organization)

PROJECT The Global Nuclear Future

The Global Nuclear Future is an interdisciplinary and multinational project that has engaged nuclear newcomers in conversations on nuclear safety, security, and nonproliferation.

The project 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 establishing 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; and 3) articulating possible strategies to minimize the risks of insider threats within nuclear laboratories and

power plants. The project has convened nuclear experts and scholars to promote dialogue among regional stakeholders; hosted policy briefings and consultations with government officials and representatives of the nuclear industry; and commissioned papers and publications, often co-authored by regional experts, to enhance academic cooperation and nurture interstate intellectual exchanges.

The project has published fourteen research papers, an edited book, and two issues of *Dædalus*. Its most recent publications include *Governance of Dual-Use Technologies: Theory and Practice*; *A Worst Practices Guide to Insider Threats: Lessons from Past Mistakes*; and *The Back-End of the Nuclear Fuel Cycle: An Innovative Storage Concept*.

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Kathryn Moffat

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*Carnegie Corporation of
New York*

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*The William and Flora
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The Kavli Foundation

*The John D. and Catherine T.
MacArthur Foundation*

*The Alfred P. Sloan
Foundation*

SENIOR ADVISOR

Scott D. Sagan
Stanford University

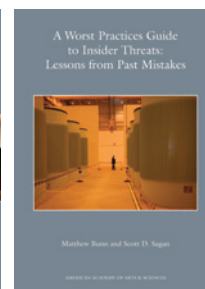
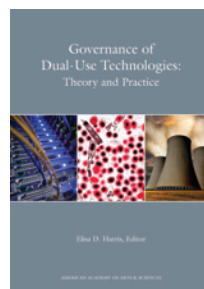
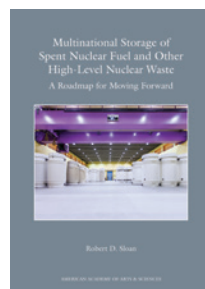
SELECT PROJECT PUBLICATIONS

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)

*Governance of Dual-Use Technologies:
Theory and Practice*

Elisa D. Harris, editor (American Academy of Arts and Sciences, 2016)



*A Worst Practices Guide to Insider Threats:
Lessons from Past Mistakes*

Matthew Bunn and Scott D. Sagan (American Academy of Arts and Sciences, 2014)

PROJECT Civil Wars, Violence, and International Responses

The Civil Wars, Violence, and International Responses project stems from the observation that current multilateral approaches for preventing, mitigating, and resolving civil wars and intrastate violence are often far too ambitious. They frequently overpromise stability, security, peace, democracy, and development to countries experiencing high levels of violence and instability. To identify the main drivers of civil wars and their security spillover effects, the project published two issues of *Dædalus* (“Civil Wars & Global Disorder: Threats & Opportunities” and “Ending Civil Wars: Constraints & Possibilities”) with contributions from scholars, former diplomats, military experts, and policy-makers. The project identified six threats that emerge from civil wars and intrastate violence: pandemic diseases,

transnational terrorism, migration, regional instability, great power conflict, and criminality. The project has engaged in extensive domestic and international outreach to share findings and recommendations that deliver a more comprehensive, effective, and integrated approach to conflict prevention and crisis management, which encompasses security, diplomacy, and development strategies in countries such as Colombia, Nigeria, Ethiopia, Syria, Lebanon, and Sri Lanka, among others. Building on these policy discussions, the project will publish a research paper focused on the policy implications of the project’s findings, which will be distributed to relevant policy-makers in the United States and internationally.

PROJECT CHAIRS

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

Stephen Krasner
Stanford University

Lyse Doucet
BBC News

Tanisha Fazal
University of Minnesota

James Fearon
Stanford University

Stephen Heydemann
Smith College

Bruce Jones
Brookings Institution

Stathis Kalyvas
Yale University

Thomas Risse
Freie Universität Berlin

Hendrik Spruyt
Northwestern University

Stephen Stedman
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Berkeley

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Institute for Advanced
Research, Ethiopia

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Council on Foreign Relations

Barry Posen
Massachusetts Institute
of Technology

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Summers Hammel

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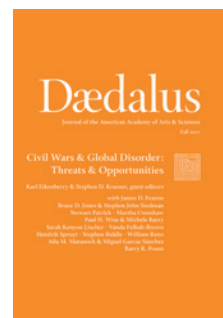
The Smith Richardson
Foundation

The Oak Foundation

PROJECT PUBLICATIONS

“Ending Civil Wars: Constraints & Possibilities,” *Dædalus*
edited by Karl Eikenberry & Stephen D. Krasner (2018)

“Civil Wars & Global Disorder: Threats & Opportunities,” *Dædalus*
edited by Karl Eikenberry & Stephen D. Krasner (2017)



PROJECT MEETINGS

Civil Wars, Intrastate Violence, and International Responses

October 22–23, 2018
Peking University
Beijing, China

Organized in collaboration with the U.S. – Asia Security Initiative at Stanford University’s Walter H. Shorenstein Asia-Pacific Research Center and the School for International Studies at Peking University, this workshop convened thirty-five experts from China, the United States, Ethiopia, and France to discuss intrastate violence and the

limits and possibilities of intervention. Some of the topics that were discussed included the degree to which intrastate violence is rooted in domestic versus international factors, the types of global security threats that such violence creates, and the policy options available to the international community or to regional powers.

MEETING CHAIRS

Karl Eikenberry
Stanford University

Stephen Krasner
Stanford University



Project contributors and other experts participate in a discussion about options for interventions in civil wars.

PROJECT Rethinking the Humanitarian Health Response to Violent Conflict

Rethinking the Humanitarian Health Response to Violent Conflict seeks to understand and address current trends in humanitarian contexts that pose new or changing challenges for humanitarian health responders, including the increasingly protracted nature of civil and non-international armed conflict, the fact that many of the world's most violent places are facing criminal or political violence rather than conflict as conventionally understood, shortfalls in funding, and changing geopolitical relations. This project will bring together political scientists, legal and security experts, health professionals, and humanitarians to examine current challenges to effective humanitarian action and to develop, where necessary, new strategies for preventing civilian harm and delivering critical health services in areas plagued by violent conflict.

The initiative will consist of an ongoing engagement strategy designed to involve domestic and international policy-maker, practitioner, and scholarly audiences, including international organizations and nongovernmental organizations, to help define new strategies for the effective provision of essential health services in areas of armed violence. By working with key audiences and organizations

from the earliest stages, the project will help ensure that its research findings are directly relevant for key actors in this field.

Throughout this initiative, the Academy will seek opportunities to develop partnerships that will guide a range of specialized outputs tailored for specific audiences. Building on the models successfully used by previous Academy projects, this initiative will carry out its work through a mix of convenings, events, and publications. Primary products of the initiative will include a series of publications, such as peer-reviewed journal articles, white papers, and short policy briefs directed at specific audience segments, as well as a series of meetings involving key scholars, practitioners, and others actively concerned with the humanitarian health response to violence. The project will also generate public-facing blog posts, online videos, podcast episodes, and op-eds to reach not only a general audience but also local and field-based humanitarian health providers who may be beyond the reach of targeted project engagement. These efforts will include partnering with universities in the global South and particularly in conflict-affected countries.

PROJECT CHAIRS

Jaime Sepulveda
*University of California,
San Francisco*

Jennifer Welsh
McGill University

Paul Wise
Stanford University

PROJECT STAFF

Francesca Giovannini
Kathryn Moffat
Rebecca Tiernan

PROJECT MEETINGS

Exploratory Meeting: Rethinking the Humanitarian Health Response to Violent Conflict

January 23–24, 2019
House of the Academy
Cambridge, MA

Building on prior small-group consultations with a variety of experts, this exploratory discussion convened scholars, policy-makers, and practitioners from a variety of disciplines to consider how the Academy could make important

and pragmatic contributions to the development of more effective humanitarian health responses in areas of violent conflict.

MEETING CHAIRS

Jennifer Welsh
McGill University

Paul Wise
Stanford University

SPEAKERS

Michael Barnett
The George Washington University

Anne Patterson
*Yale University; formerly,
U.S. Department of State*

Ron Waldman
The George Washington University



Project Cochair **Jennifer Welsh** (McGill University) during a breakout session with Ambassador **Anne Patterson** (Yale University) and **J. Stephen Morrison** (Center for Strategic and International Studies)

Exploratory Meeting: Rethinking the Humanitarian Health Response to Violent Conflict

June 10–11, 2019
Chatham House
London, United Kingdom

Held in collaboration with the Centre for Global Health Security at Chatham House and the London School of Hygiene and Tropical Medicine, the meeting brought together scholars, practitioners, and policy-makers from the

global health, humanitarian, and security sectors to explore how future work by the three hosting organizations could help define new strategies for the provision of essential health services in areas of violent conflict.

MEETING CHAIRS

Rita Dayoub
Chatham House

David Heymann
Chatham House

Jaime Sepulveda
*University of California,
San Francisco*

Neha Singh
*London School of Hygiene
and Tropical Medicine*

Jennifer Welsh
McGill University

Paul Wise
Stanford University



front row: Ben Wakefield (Chatham House), Rita Dayoub (Chatham House), Jaime Sepulveda (UCSF), and Kathryn Moffat (American Academy of Arts and Sciences); **back row:** Paul Wise (Stanford University), Jennifer Welsh (McGill University), Louis Lillywhite (Chatham House), and Alexandra Squires McCarthy (Chatham House)

The Humanities, Arts, and Culture

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.



PROGRAM ADVISORY COMMITTEE

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Los Angeles

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Vanderbilt University

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University of Virginia

Oscar Tang
New York, NY

Pauline Yu
American Council of
Learned Societies

PROJECT Commission on the Arts

The Commission on the Arts brings together artists, arts leaders, philanthropists, educators, and scholars from around the country to reframe the national conversation about what role the arts can play in a diverse twenty-first-century democracy. The mandate for the Commission is animated by several key questions: How can the arts help connect individuals and communities? How can the arts and artists help bridge divides within society? What

role do the arts play in helping individuals make meaning in their daily lives? How can the arts contribute to important national conversations? The Commission's final report will include recommendations that are focused at the local, state, and regional levels that will help arts advocates, educators, artists, and government officials to refocus the national conversation on the arts around common issues.

COMMISSION CHAIRS

John Lithgow
Actor

Deborah Rutter
John F. Kennedy Center
for the Performing Arts

Natasha Trethewey
Northwestern University

Rod Bigelow
Crystal Bridges Museum
of American Art

Terence Blanchard
Jazz Trumpeter and Composer

Mary V. Bordeaux
First Peoples Fund

Pam Breaux
National Assembly of
State Arts Agencies

James Cuno
The J. Paul Getty Trust

Paul J. DiMaggio
New York University

Oskar Eustis
The Public Theater

Katherine Farley
Lincoln Center for the
Performing Arts

Theaster Gates, Jr.
Rebuild Foundation

Paula J. Giddings
Smith College

Vijay Gupta
Street Symphony

Edward Hirsch
John Simon Guggenheim
Memorial Foundation

Vicky Holt Takamine
Pua Ali'i 'Ilima

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

Gish Jen
Cambridge, MA

Tania León
Brooklyn College;
The Graduate Center,
City University of New York

Robert L. Lynch
Americans for the Arts

Sonia Manzano
Actress; Author

COMMISSION MEMBERS

Diane Ackerman
Ithaca, NY

Elizabeth Alexander
The Andrew W. Mellon
Foundation

Maribel Alvarez
The University of Arizona

Jeffrey Brown
PBS NewsHour

Louise Henry Bryson
The J. Paul Getty Trust

Francis Sellers Collins
National Institutes of Health

CONTINUED Commission on the Arts

Mike O'Bryan
*The Village of Arts
and Humanities*

Felix Padrón
*Arts Management
Professional; Artist*

Annie Parker
former Mayor of Houston

**Mwalim (Morgan James
Peters)**
*University of Massachusetts
Dartmouth*

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

Jacqueline Stewart
University of Chicago

Yancey Strickler
Kickstarter

Roberta Uno
Arts in a Changing America

Zannie Voss
*Southern Methodist
University National Center
for Arts Research*

Carrie Mae Weems
New York, NY

Ellen Winner
Boston College

Damian Woetzel
The Juilliard School

Jay Jie Xu
*Asian Art Museum
of San Francisco*

Laura Zabel
Springboard for the Arts

PROJECT STAFF

Paul Erickson

Gabriela Farrell

Allentza Michel

FUNDERS

Barr Foundation

The Ford Foundation

The Getty Foundation

*The John S. and James L.
Knight Foundation*

The Kresge Foundation

David Rockefeller, Jr.

Roger and Victoria Sant



Commission Cochair **John Lithgow** (Actor) and Commission member **Felix Padrón** (Arts Management Professional; Artist) report on their breakout group discussion at the Commission's first meeting.

PROJECT MEETINGS

Meeting of the Commission

January 15–16, 2019
House of the Academy
Cambridge, MA

The first meeting of the Commission on the Arts provided an opportunity for the Chairs and Commissioners to become acquainted with each other and to discuss what their individual goals are for the work of the Commission. The group established priority areas of interest for

the Commission going forward, including the role of the arts in civic engagement; arts education; the current state of and future prospects for arts funding; the role of the arts in everyday life; and the arts and community and economic development.

MEETING CHAIRS

John Lithgow
Actor

Deborah Rutter
*John F. Kennedy Center
for the Performing Arts*

Natasha Trethewey
Northwestern University

“Music and the Mind” Webinar

May 2, 2019
Online

To illustrate the potential of cross-disciplinary research in the arts, the Commission organized a webinar focusing on the groundbreaking *Sound Health* project. *Sound Health* is a collaborative partnership between the Kennedy Center for the Performing Arts and National Institutes of Health, in association with the National Endowment for the Arts, to discuss the current landscape of research on the interaction of music and the brain. The project brings together neuroscientists, music therapists, and supporters of biomedical research and the arts to explore the connections between health, wellness, and music.

MEETING CHAIR

Deborah Rutter
*John F. Kennedy Center
for the Performing Arts*

GUEST SPEAKERS

Francis Collins
National Institutes of Health

Renée Fleming
Soprano

Sunil Iyengar
*National Endowment
for the Arts*

Meeting of the Commission

June 6–7, 2019
Scandinavia House
New York, NY

The second meeting of the Commission provided the opportunity for Commissioners to discuss with their working groups key areas of interest, needs for future research, and outreach opportunities in the Commission’s four main thematic strands of work. The Commission also discussed plans for a coordinated media campaign designed to reach key groups, as well as the general public.

MEETING CHAIRS

John Lithgow
Actor

Natasha Trethewey
Northwestern University

Deborah Rutter
*John F. Kennedy Center
for the Performing Arts*

PROJECT The Humanities Indicators

The Humanities Indicators are now in their twentieth year as a project of the Academy, and tenth year as a public website and resource. The Indicators provide information about all aspects of the humanities: ranging from early childhood reading, to undergraduate and graduate education in the humanities, to employment and experiences later in life with museums and other humanistic activities. The Indicators were originally conceived and developed as a counterpart to the National Science Foundation's *Science and Engineering Indicators*. Recent work has included

updates to existing Indicators on the website; a published report on humanities majors in the workforce, and a collection of one-pagers in the Humanities in Our Lives series; grant-funded projects, including a survey of the general public, the National Inventory of Humanities Organizations, and a third iteration of the department surveys; and general promotional activities and outreach to new audiences. The Humanities Indicators are accessible at www.humanitiesindicators.org.

PROJECT DIRECTOR

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

John Dichtl
*American Association for
State and Local History*

Ronald G. Ehrenberg
Cornell University

Esther Mackintosh
*Federation of State
Humanities Councils*

Judith Tanur
Stony Brook University

Steven Wheatley
*American Council of
Learned Societies, emeritus*

PROJECT STAFF

Paul Erickson

Carolyn Fuqua

John Garnett

Robert B. Townsend

ADVISORY COMMITTEE

Jack Buckley
*American Institutes
for Research*

Jonathan R. Cole
Columbia University

Michael Hout
New York University

Felice J. Levine
*American Educational
Research Association*

FUNDERS

*The Andrew W. Mellon
Foundation*

*National Endowment
for the Humanities*

PROJECT MEETING

Advisory Committee Meeting

January 11, 2019
Washington, D.C.

The annual meeting of the Advisory Committee for the Humanities Indicators Project reviewed the previous year's updates and publications and discussed plans for upcoming projects, including the National Inventory of

Humanities Organizations, the survey of the humanities in community colleges, and a third iteration of the Humanities Department Survey.

MEETING CHAIR

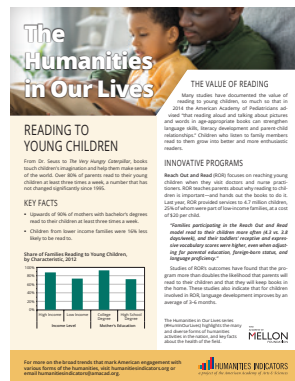
Norman M. Bradburn
*NORC at the University
of Chicago*

PROJECT PUBLICATIONS

The Humanities in Our Lives

Building on the success of an earlier infographic under the rubric of The Humanities in Our Lives, the Academy's Humanities Indicators project released in late 2018 a new series (at <http://bit.ly/HiOLseries>) that couples data about the humanities with profiles of innovative programs in the field.

The new series on The Humanities in Our Lives, developed with funding support from The Andrew W. Mellon Foundation, takes an expansive view of the humanities, with topics ranging from early childhood reading programs to later in life visits to historic sites. This extensive focus reflects the Indicators' holistic view of the humanities and demonstrates the wide range of subject areas across which Indicators data can be brought to bear.



TOPICS COVERED INCLUDE

America's Native Languages

Community Colleges

Degrees in the Humanities

Digital Humanities

Elementary School Readers

Historic Sites in the United States

History in the Schools

Humanities and Medicine

Humanities Jobs

Humanities Tourism

Language Learning

Learning a Second Language

Libraries as a Community Anchor

Multilingualism in Public Service

Multilingualism in the Workforce

Museum Attendance

Poetry

Public Libraries

Reading for Pleasure

Reading to Young Children

The Value of Languages

U.S. Higher Ed Ethics Bowls

Writing Skills

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 in Science, Engineering, and Technology analyze the impact of advances in these areas 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.

PROGRAM ADVISORY COMMITTEE

CHAIRS

Alan Leshner
formerly, American
Association for the
Advancement of Science

Geraldine L. Richmond
University of Oregon

MEMBERS

Nancy C. Andrews
Duke University
School of Medicine

Mary Beckerle
University of Utah

Arthur Bienenstock
Stanford University

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

Claude Canizares
Massachusetts Institute
of Technology

Gerald Chan
The Morningside Group

David Clark
Massachusetts Institute
of Technology

Wayne Clough
Georgia Institute of
Technology; formerly,
Smithsonian Institution

Robert Horvitz
Massachusetts Institute
of Technology

Leah Jamieson
Purdue University

Cora Marrett
formerly, National Science
Foundation

James Simons
Simons Foundation

Jeannette Wing
Columbia University

PROJECT The Public Face of Science

The Academy's multiyear initiative on the Public Face of Science addresses various aspects of the complex and evolving relationship between scientists and the public, and examines how trust in science is shaped by individual experiences, beliefs, and engagement with science. Additional project activities include the role of science in the legal system and the coordination and deployment of scientific teams as part of crisis response.

The initiative has brought together a broad range of experts in communication, law, humanities, the arts, journalism, public affairs, and the physical, social, and life sciences. 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 attitudes toward science.

The first project report, *Perceptions of Science in America*, aggregated data on the current understanding of how Americans view science, scientists, and the impacts of scientific research. The second project report, *Encountering Science in America*, highlights the numerous ways that individuals encounter science in their everyday lives. The forthcoming final report will present recommendations for improving the practice of science communication and engagement.

PROJECT CHAIR

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

Geoffrey Cowan
University of Southern
California

Ellen Futter
American Museum
of Natural History

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

STEERING GROUP
MEMBERS

Emilio Bizzi
Massachusetts Institute
of Technology

Sylvester James Gates, Jr.
Brown University

Robert Hauser
American Philosophical
Society

CONTINUED The Public Face of Science

PROJECT STAFF

John Randell

Erica Kimmerling

Rebecca Tiernan

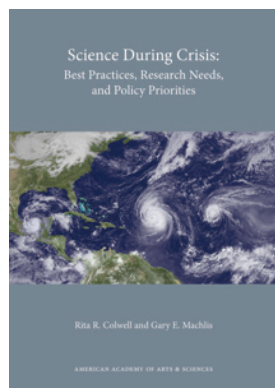
FUNDERS

Gordon and Betty Moore
Foundation

Rita Allen Foundation

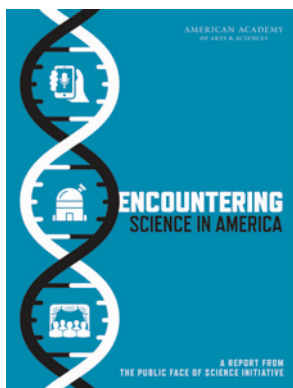
Alfred P. Sloan Foundation

PROJECT PUBLICATIONS



Science During Crisis: Best Practices, Research Needs, and Policy Priorities
Rita R. Colwell and Gary E. Machlis (American Academy of Arts and Sciences, 2019)

Encountering Science in America
(American Academy of Arts and Sciences, 2019)



Perceptions of Science in America
(American Academy of Arts and Sciences, 2018)

"Science & the Legal System," *Dædalus*
edited by Shari Seidman Diamond & Richard O. Lempert
(2018)



PROJECT MEETINGS

Understanding Public Attitudes and Engagement with Science

September 20, 2018
University of Pennsylvania
Philadelphia, PA

Philadelphia-based Academy members gathered for a discussion of the findings and recommendations from the Public Face of Science initiative. Members of the project steering committee, including Kathleen Hall Jamieson and

Nora S. Newcombe, shared what they had learned about how Americans perceive and engage with science, and facilitated a discussion on how these insights impact the practice of science communication and engagement.

MEETING CHAIRS

Kathleen Hall Jamieson
University of Pennsylvania

Nora S. Newcombe
Temple University

FEATURED SPEAKER

Erica Palma Kimmerling
American Academy of Arts
and Sciences

Science & the Legal System

October 29, 2018
National Press Club
Washington, D.C.

To mark the public release of the *Dædalus* issue on “Science & the Legal System,” published in fall 2018 as part of the Public Face of Science initiative, the Academy hosted a panel discussion with guest editors **Shari Diamond** and **Richard Lempert** and several of the contributors to discuss the challenges posed by the increasing role of scientific evidence in legal cases as well as possibilities for improvement and reform.

SPEAKERS

Shari Seidman Diamond
*Northwestern University
Pritzker School of Law*

Richard O. Lempert
University of Michigan

Nancy Gertner
*Harvard Law School;
formerly, U.S. District
Court for the District of
Massachusetts*

Jed S. Rakoff
*U.S. District Court for the
Southern District of New
York; Columbia Law School*

David S. Tatel
*U.S. Court of Appeals for the
District of Columbia Circuit*

Trust in Science: Vaccines

January 29, 2019
Benjamin Franklin Hall
Philadelphia, PA

“Trust in Science: Vaccines” was the first event in a series inspired by the Academy’s report, *Perceptions of Science in America*. Presented by the Consortium for History of Science, Technology and Medicine and the American Philosophical Society, the meeting examined vaccine skepticism in contemporary America, historically, and in the clinic. Hellman Fellow Erica Kimmerling participated in the panel discussion and spoke about public trust in vaccines.

SPEAKERS

Jeffrey Baker
*Duke University
School of Medicine*

Elena Conis
*University of California,
Berkeley*

Robert M. Hauser,
moderator
*American Philosophical
Society*

Erica Palma Kimmerling
*American Academy of Arts
and Sciences*



Panel discussion on Trust in Science: Vaccines, featuring (from left to right) **Jeffrey Baker** (Duke University School of Medicine), **Erica Palma Kimmerling** (American Academy of Arts and Sciences), **Elena Conis** (University of California, Berkeley), and **Robert Hauser** (American Philosophical Society)

Building, Exploring, and Using the Tree of Life

March 6, 2019
House of the Academy
Cambridge, MA

For decades, Douglas E. Soltis and Pamela S. Soltis have collaborated with scientists worldwide to harness algorithm development, computer power, and DNA sequencing to produce a comprehensive Tree of Life representation

of all 2.3 million named species. At a meeting held at the Academy, they described their work and how the Tree of Life can be used to illustrate, instruct, and inspire the public about biodiversity.

SPEAKERS

Douglas E. Soltis
University of Florida

Pamela S. Soltis
University of Florida

Scott Vernon Edwards,
moderator
Harvard University



Douglas E. Soltis (University of Florida) describing the Tree of Life project.

Cultivating Public Engagement with Science

March 7, 2019
House of the Academy
Cambridge, MA

Students from the Harvard Graduate School of Education participated in a meeting at the Academy about science engagement. Megan Cuzzolino, a doctoral candidate at the Harvard Graduate School of Education, created a course based on the Academy's report, *Perceptions of Science in America*, in which her students were asked to design a science engagement product that effectively communicates a scientific topic to an identified audience. At the meeting, Hellman Fellow Erica Kimmerling gave an overview of the *Public Face of Science* initiative and the students presented their projects to local science communication experts.

SPEAKERS

Megan Cuzzolino
Harvard Graduate School of Education

Erica Palma Kimmerling
American Academy of Arts and Sciences

INVITED EXPERTS

Jennifer Cutraro
Science Storytellers

Julie Ann Fooshee
MIT Museum

Stephanie Keep
National Center for Science Education

Brindha Muniappan
MIT Museum

Science During Crisis: The Release of a New Report and a Call to Action

March 19, 2019
National Press Club
Washington, D.C.

The Academy released its report on *Science During Crisis* at an event at the National Press Club that featured authors Rita Colwell and Gary Machlis and a panel discussion with Brad Kieserman, head of disaster response and operations at the American Red Cross. Academy President David Oxtoby moderated the discussion. The program provided insight on the important role science plays during crisis response, emerging best practices, and areas for continued research.

SPEAKERS

Rita R. Colwell
University of Maryland

Brad J. Kieserman
American Red Cross

Gary E. Machlis
Clemson University

David W. Oxtoby,
moderator
American Academy of Arts and Sciences



Brad Kieserman (American Red Cross) joined authors Rita Colwell (University of Maryland) and Gary Machlis (Clemson University), as well as Academy President David Oxtoby, in highlighting the importance of using science during crisis response.

Shaping the Public Face of Science

April 12, 2019

Washington University in St. Louis
St. Louis, MO

Academy members Jonathan Losos, Peter Raven, and Barbara Schaal organized a roundtable discussion at Washington University in St. Louis. Participants discussed strategies and opportunities for science communication and engagement in the St. Louis community. Erica Kimmerling,

the Academy's Hellman Fellow in Science and Technology Policy, presented insights from two Public Face of Science publications – *Perceptions of Science in America* and *Encountering Science in America* – and acted as the facilitator for a conversation about science engagement in the St. Louis area.

SPEAKERS

Peter Hamilton Raven
Missouri Botanical Garden

Barbara Anna Schaal
*Washington University
in St. Louis*

Erica Palma Kimmerling
*American Academy of Arts
and Sciences*



St. Louis, MO

PROJECT Challenges for International Scientific Partnerships

The Academy's project on Challenges for International Scientific Partnerships (CISP) aims to articulate the benefits of international collaboration and recommend solutions to the most pressing challenges associated with the design and operation of partnerships. Through research conducted over the past year and roundtable discussions led by members of the project's Steering Committee, the project has compiled a preliminary list of challenges and opportunities for international science partnerships presented by evolving trends in society, as well as changes in the types and structures of international scientific partnerships.

The project's Steering Committee identified two groups of major issues and formed working groups to address each one. One working group is focused on large-scale science

and facilities, and the other will study scientific partnerships involving countries with limited resources for science. The large-scale science working group will identify a diverse set of partnerships to evaluate successful and unsuccessful organizational dynamics, institutional practices, and public policies. The resource-limited countries working group will survey partnerships, have discussions with policy-makers, and meet with funders and recipients to find opportunities to make partnerships between researchers in the United States and those in resource-limited countries more equitable and mutually beneficial. Working group members will work with the Academy's project staff to select and review case studies, arrange consultations with topic experts, and develop and refine recommendations that will be highlighted in Academy reports to be published in 2020.

PROJECT CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

Cherry Murray
Harvard University

Venkatesh Narayanamurti
Harvard University

Olufunmilayo Olopade
*University of Chicago
Medicine*

STEERING COMMITTEE MEMBERS

Claude R. Canizares
Massachusetts Institute of Technology

David Fidler
*Indiana University
Maurer School of Law*

Matthias Hentze
*European Molecular
Biology Laboratory*

John Hildebrand
University of Arizona

David Korn
Harvard Medical School

William Lee
*Wilmer Cutler Pickering
Hale and Dorr*

Shirley Malcom
*American Association for the
Advancement of Science*

Geraldine Richmond
University of Oregon

Vaughan Turekian
*National Academies of
Sciences, Engineering,
and Medicine*

Caroline Wagner
Ohio State University

LARGE-SCALE SCIENCE WORKING GROUP

Arthur Bienenstock, Cochair
Stanford University

Peter Michelson, Cochair
Stanford University

Claude R. Canizares
*Massachusetts Institute
of Technology*

E. William Colglazier
*American Association for the
Advancement of Science*

Inez Fung
*University of California,
Berkeley*

Michael Holland
University of Pittsburgh

Kaye Husbands Fealing
*Georgia Institute
of Technology*

David Korn
Harvard Medical School

Cherry Murray
Harvard University

Philip Rubin
Yale University

Gary Sanders
*California Institute
of Technology*

Diane Souvaine
Tufts University

RESOURCE-LIMITED COUNTRIES WORKING GROUP

Shirley Malcom, Cochair
*American Association for the
Advancement of Science*

Olufunmilayo Olopade, Cochair
*University of Chicago
Medicine*

Bruce Alberts
*University of California,
San Francisco*

Rita R. Colwell
University of Maryland

James W. Curran
Emory University

Ali Douraghy
*Lawrence Berkeley
National Laboratory*

Nina Dudnik
Seeding Labs

Mohamed Hassan
*The World Academy
of Sciences; Sudanese
National Academy of
Sciences*

CONTINUED Challenges for International Scientific Partnerships

John Hildebrand
University of Arizona

Nkem Khumbah
University of Michigan

Peggy Oti-Boateng
*United Nations Educational,
Scientific, and Cultural
Organization*

Flavia Schlegel
*formerly, United Nations
Educational, Scientific, and
Cultural Organization*

Caroline Wagner
Ohio State University

PROJECT STAFF

John Randell

Gregory Savageau

Rebecca Tiernan

FUNDERS

*Gordon and Betty Moore
Foundation*

*William and Flora Hewlett
Foundation*

Alfred P. Sloan Foundation

PROJECT MEETINGS

Steering Committee Meeting

December 4–5, 2018
Park Hyatt
Washington, D.C.

Members of the Steering Committee discussed the focus and desired outcomes of the project. The Committee decided to form two working groups: one focused on large-scale science and facilities and a second focused on partnerships with resource-limited countries.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

Meeting of the Large-Scale Science Working Group

February 20, 2019
Kimpton Hotel George
Washington, D.C.

The working group discussed their work plan and agenda. On the evening before the meeting, the Academy hosted a dinner with members of the working group and special guests from the D.C. area, including Paul Hertz of NASA; Anne-Marie Mazza of the National Academies of Sciences, Engineering, and Medicine; Roger Glass of the Fogarty Institute; and Rebecca Keiser of the National Science Foundation, to discuss candidly some of the challenges they have faced in international large-scale science partnerships.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

Meeting of the Resource-Limited Countries Working Group

April 29–30, 2019

American Association for the Advancement of Science
Washington, D.C.

The working group discussed the group's research strategy and work plan. Key individuals and experts in the D.C. area, including representatives of the National Institutes of Health, United States Agency for International Development, World Wide Fund for Nature, and the Woodrow Wilson International Center for Scholars, among others, joined Academy staff and members of the working group at a dinner the evening before the meeting and for consultations in the afternoon to share their own expertise and to provide insight on how the United States can overcome challenges with these types of collaborations and be a better partner in this landscape.

MEETING CHAIR

Shirley Malcom

*American Association for the
Advancement of Science*

Meeting of the Large-Scale Science Working Group

May 8–9, 2019

Stanford University
Stanford, CA

The large-scale science working group discussed potential recommendations that could be included in the project's final report and planned for a major workshop on the topic at the end of July 2019. At a dinner the evening before the meeting, working group members and experts from the University of California, Berkeley, Stanford, and the surrounding Bay Area spoke about the politics of international science and collaboration with China.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

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* in 2012 and 2013 on the Alternative Energy Future, the Academy undertook a three-year research project to understand better the factors that contribute to policy durability and flexibility. This study resulted in the publication of the book, *Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy*, edited by Ann Carlson and Dallas Burtraw and published in May 2019 by Cambridge University Press.

PROJECT CHAIRS

M. Granger Morgan
Carnegie Mellon University

Maxine L. Savitz
Honeywell, Inc., ret.

STUDY GROUP ON DURABILITY AND ADAPTABILITY IN U.S. CLIMATE AND ENERGY POLICY

Dallas Burtraw, Cochair
Resources for the Future

Ann Carlson, Cochair
*University of California,
Los Angeles School of Law*

Joseph E. Aldy
Harvard Kennedy School

William Boyd
*University of California,
Los Angeles School of Law*

Eric M. Patashnik
Brown University

Barry G. Rabe
University of Michigan

Hannah J. Wiseman
*Florida State University
College of Law*

CONTINUED The Alternative Energy Future

PROJECT STAFF

John Randell
Gregory Savageau

FUNDERS

Alfred P. Sloan Foundation
The Kresge Foundation

PROJECT MEETINGS

Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy

June 10, 2019
Carnegie Institution for Science
Washington, D.C.

The Academy, in partnership with Resources for the Future, hosted an event to celebrate the release of the publication, *Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy*. The event featured a keynote address by Henry Waxman, former

U.S. Representative from California, and presentations from editors Ann Carlson and Dallas Burtraw about how the findings in the book can be used to guide and create effective energy policies at all levels of government.



Megan Ceronsky (Center for Applied Environmental Law and Policy), **Jonathan Cannon** (University of Virginia School of Law), **Jeff Holmstead** (Bracewell LLP), **Vickie Patton** (Environmental Defense Fund), and **Joseph Aldy** (Harvard Kennedy School)

CONTINUED Lessons from the Clean Air Act

FEATURED SPEAKERS

Joseph E. Aldy
Harvard Kennedy School

Dallas Burtraw
Resources for the Future

Jonathan Cannon
*University of Virginia
School of Law*

Ann Carlson
*University of California,
Los Angeles School of Law*

Megan Ceronsky
*Center for Applied
Environmental Law and
Policy*

Jeff Holmstead
Bracewell LLP

Vickie Patton
Environmental Defense Fund

Barry Rabe
University of Michigan

John Randell
*American Academy of Arts
and Sciences*

Phil Sharp
*formerly, U.S. House of
Representatives; formerly,
Resources for the Future*

Henry A. Waxman
*Waxman Strategies; formerly,
U.S. House of Representatives*

PROJECT IN DEVELOPMENT Water Security

Water security is an urgent problem for much of the world's population. Current estimates indicate that globally, 663 million people lack access to safe drinking water and 2.4 billion people lack access to sanitation facilities, and that number is only projected to increase in the coming years. Political, social, and economic factors compound the challenges posed by a changing climate and increasing demand. The Academy convened an exploratory meeting to explore gaps in current research and policy on

regional and international water governance, and is now using the insights from this meeting to develop a proposal for a formal Academy project. Supported jointly by the Academy's programs in Science, Engineering, and Technology and in Global Security and International Affairs, this highly interdisciplinary study will draw on a wide variety of expertise to better understand the socioecological and policy aspects of water management and governance.

PLANNING GROUP
CHAIRS

Allen F. Isaacman
*University of Minnesota;
University of the Western
Cape*

Geraldine L. Richmond
University of Oregon

PLANNING GROUP
MEMBERS

Rita R. Colwell
University of Maryland

Christopher B. Field
Stanford University

Jacqueline M. King
*University of the
Western Cape*

Ismail Serageldin
Library of Alexandria, Egypt

PROJECT STAFF

John Randell
Kathryn Moffat
Rebecca Tiernan

FUNDERS

*Louise Henry Bryson and
John E. Bryson*
William Rutter

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 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 is made possible through the generous support of the Arnold 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.

RECENT EXPLORATORY MEETINGS

The Future of the Ph.D.

November 15–16, 2018
House of the Academy
Cambridge, MA

This gathering of nearly thirty leaders from nonprofit organizations and academia focused on trends in career outcomes for doctoral students across disciplines. The

participants discussed changes to doctoral training and student mentorship in order to improve and diversify career outcomes for recipients of doctoral degrees.

CHAIRS

Nancy C. Andrews
*Duke University
School of Medicine*

David Nirenberg
University of Chicago

FEATURED SPEAKERS

Carlos J. Alonso
Columbia University

Ed Balleisen
Duke University

Thomas Bender
New York University

Mary Sue Coleman
*Association of American
Universities*

Robin Garrell
*University of California,
Los Angeles*

Kelly Gebo
Johns Hopkins University

Dianne Harris
*Andrew W. Mellon
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Nimmi Kannankutty
National Science Foundation

David Lee
Princeton University

Terry Magnuson
*University of North Carolina
at Chapel Hill*

Anthony Monaco
Tufts University

Thomas Pollard
Yale University

Cybele Raver
New York University

Robert B. Townsend
*American Academy of Arts
and Sciences*

Ian Waitz
*Massachusetts Institute
of Technology*

Keith Yamamoto
*University of California,
San Francisco*

Rethinking the Humanitarian Health Response to Violent Conflict

February 19, 2019
House of the Academy
Cambridge, MA

Participants at this exploratory meeting provided advice on the direction and shape of a larger Academy project on humanitarian interventions in conflict zones.

CHAIRS

Jaime Sepulveda
*University of California,
San Francisco*

Jennifer Welsh
McGill University

Paul Wise
Stanford University

FEATURED SPEAKERS

Michael Barnett
*George Washington
University*

Anne Patterson
*Yale University; formerly,
U.S. Department of State*

Ron Waldman
*George Washington
University*



Tanisha Fazal (University of Minnesota), Chief Judge **Diane Wood** (United States Court of Appeals for the Seventh Circuit), **Elisabeth Wood** (Yale University), and **Jocelyn Kelly** (Harvard University) participate in a plenary session about Rethinking the Humanitarian Health Response to Violent Conflict.

National Memory in a Time of Populism

May 23–25, 2019
Washington University in St. Louis
St. Louis, MO

As a follow-up to a December 2017 planning meeting convened at the Academy, this exploratory meeting brought together scholars from across the globe to discuss national

narratives, historiography, and shared identity in the current context of rising populism.

CHAIRS

Henry L. Roediger, III
*Washington University
in St. Louis*

James V. Wertsch
*Washington University
in St. Louis*

David Blight
Yale University

Pascal Boyer
*Washington University
in St. Louis*

Andrew C. Butler
*Washington University
in St. Louis*

Yadin Dudai
*Weizmann Institute
of Science, Israel;
New York University*

Rauf Garagozov
Uppsala University, Sweden

Carol Gluck
Columbia University

Suparna Rajaram
Stony Brook University

Henry L. Roediger, III
*Washington University
in St. Louis*

Christina Simko
Williams College

FEATURED SPEAKERS

Madgalena Abel
*University of Regensburg,
Germany*

Krystian Barzykowski
*Jagiellonian University,
Poland*

Nutsa Batiashvili
*Free University of Tbilisi,
Georgia*

Alin Coman
Princeton University

Amy Corning
*Institute for Social Research,
University of Michigan*

David Cunningham
*Washington University
in St. Louis*

James Liu
*Massey University,
New Zealand*

Zhao Ma
*Washington University
in St. Louis*

Elizabeth Marsh
Duke University

Jeffrey Olick
University of Virginia

Sharda Umanath
Claremont McKenna College

Abram Van Engen
*Washington University
in St. Louis*

James V. Wertsch
*Washington University
in St. Louis*

Jeremy Yamashiro
*Washington University
in St. Louis*

Rethinking the Humanitarian Health Response to Violent Conflict

June 10–11, 2019
Chatham House
London, United Kingdom

Held in collaboration with the Centre for Global Health Security at Chatham House and the London School of Hygiene and Tropical Medicine, the meeting brought together scholars, practitioners, and policy-makers from the

global health, humanitarian, and security sectors to explore how future work by the three hosting organizations could help define new strategies for the provision of essential health services in areas of violent conflict.

CHAIRS

Jaime Sepulveda
*University of California,
San Francisco*

Jennifer Welsh
McGill University

Paul Wise
Stanford University

The Future of the Administrative State

June 12, 2019
House of the Academy
Cambridge, MA

This exploratory meeting brought together scholars from law, political science, public administration, history, and organizational design to discuss the history, current challenges, and potential futures of regulatory agencies.

CHAIR

Mark Tushnet
Harvard University

Aaron Neilson
*Brigham Young University
Law School*

Charles Sabel
Columbia Law School

FEATURED SPEAKERS

Susan Dudley
*George Washington
University*

Peter Strauss
Columbia Law School

Phil Wallach
R Street Institute

Gillian Metzger
Columbia Law School

Water in Our Future

June 19–20, 2019
Battery Wharf Hotel
Boston, MA

This exploratory meeting convened a range of scholars, policy-makers, and representatives from NGOs and international organizations to examine the socioecological and political aspects of water management and governance. Supported jointly by the Academy's Science, Engineering, and Technology and Global Security and International Affairs program areas, the exploratory meeting facilitated discussions on major issues around water availability and safety in urban and agricultural areas, as well as large dams, environmental impact assessments, and transboundary water governance.

CHAIRS

Allen F. Isaacman
*University of Minnesota;
University of the Western
Cape*

Christopher Field
Stanford University

Annette Huber-Lee
*Stockholm Environment
Institute*

Geraldine L. Richmond
University of Oregon

Antarpreet Jutla
West Virginia University

FEATURED SPEAKERS

Rita R. Colwell
University of Maryland

Jacqueline M. King
*University of the
Western Cape*

Jennifer Derr
*University of California,
Santa Cruz*

David W. Oxtoby
*American Academy of Arts
and Sciences*

Kurt Soderlund
Safe Water Network



Geraldine L. Richmond (University of Oregon)

Local Program Committees

Local Program Committees and Representatives bring together communities of members to connect, explore topics of interest, and advise informally on Academy projects.

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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

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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

Gigliola Staffilani
Massachusetts Institute
of Technology

Mriganka Sur
Massachusetts Institute
of Technology

Sherry Turkle
Massachusetts Institute
of Technology

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Ryan Specialty Group;
World Sport Chicago

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Shari Diamond
Northwestern University
Pritzker School of Law

Gary Fine
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Mark Hansen
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Young-Kee Kim
University of Chicago

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University of Chicago

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Field Museum of Natural
History

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Northwestern University

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at Chicago

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University of Chicago

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University of Chicago

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University of Chicago

Natasha D. Trethewey
Northwestern University

Diane Wood
United States Court of
Appeals, Seventh Circuit

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Southern District of Texas

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Rice University

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Rice University

Ruth Simmons
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Edwin Thomas
Rice University

Huda Y. Zoghbi
Baylor College of Medicine

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*The Huntington Library,
Art Collections, and
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Sherry Lansing Foundation

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Los Angeles, CA

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California Institute
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Annelia Isabel Sargent
California Institute
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Yale University

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Yale University

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Yale Law School

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Yale Law School

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Yale University

John Langbein
Yale Law School

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Yale University

Thomas Pollard
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Rose Associates, Inc.

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Perelman School of Medicine

Martha Farah
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Princeton University

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Arthur Levine
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Princeton University

Froma Zeitlin
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Brown University

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Duke University

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at Chapel Hill*

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San Diego*

Jerrold M. Olefsky
*University of California,
San Diego School of Medicine*

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*University of California,
San Diego School of Medicine*

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*University of California,
San Diego School of Medicine*

SOUTH FLORIDA

George Conrades,
Representative
*formerly, Akamai
Technologies*

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*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*

Larry Shapiro
*University Health Partners
 of Hawaii*

James Wertsch
*Washington University
 in St. Louis*

Mark Wrighton
*Washington University
 in St. Louis*

URBANA

John Katzenellenbogen,
*Representative
 University of Illinois*

WASHINGTON, D.C.

Steven Knapp, Chair
*George Washington
 University*

Norman Augustine
Lockheed Martin Corporation

David G. Bradley
Atlantic Media

David B. Brooks
New York Times Company

A'Lelia Bundles
Washington, D.C.

Mary Sue Coleman
*Association of American
 Universities*

John J. Degioia
Georgetown University

Donald Graham
Graham Holdings Co.

Sanford D. Greenberg
TEI Industries, Inc.

Irene Hirano Inouye
U.S.-Japan Council

Alan I. Leshner
*formerly, 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

Margaret C. Simms
*Center on Labor, Human
 Services, and Population at
 the Urban Institute*

David J. Skorton
*Association of American
 Medical Colleges; formerly,
 Smithsonian Institution*

Patty Stonesifer
Martha's Table

Member Events, 2018–2019

The Academy holds events around the country and the world. These gatherings bring members and others in their communities together to explore topics of national and global concern through an interdisciplinary lens that draws on the breadth and expertise of the Academy's membership.

CALIFORNIA

LOS ANGELES

November 4, 2018
Los Angeles, CA

Ethical Issues in the Arts and Sciences*

Featured Speakers: Frances Arnold (California Institute of Technology); Viet Thanh Nguyen (University of Southern California); Peter Sellars (University of California, Los Angeles). *Moderator:* Kent Kresa (formerly, General Motors; formerly, Northrop Grumman Corporation)

PALO ALTO

September 28, 2018
Palo Alto, CA

Technology and the Self

Featured Speaker: Peter Galison (Harvard University)

SAN DIEGO

October 22, 2018
University of California, San Diego

San Diego Program Committee Meeting*

November 5, 2018
Sanford Consortium

The Curiosity Mission: The Search for Habitable Environments on Mars*

Featured Speaker: John Grotzinger (California Institute of Technology)

* Activity of a Local Program Committee or Representative

March 8, 2019

University of California, San Diego

San Diego Program Committee Meeting*

May 31, 2019

University of California, San Diego

The Design Lab: Applying the Wisdom of the University to Societal Issues*

Featured Speaker: Don Norman (University of California, San Diego)

SANTA BARBARA

June 5, 2019

University of California, Santa Barbara

Member Reception with Academy President David W. Oxtoby

CONNECTICUT

NEW HAVEN

All cosponsored by the Whitney and Betty MacMillan Center for International and Area Studies at Yale University

September 28, 2018
Yale University

Collateral Crashes and Shakespeare*

Featured Speaker: John Geanakoplos (Yale University)

November 2, 2018
Yale University

The Secret to Superior Investment Performance*

Featured Speaker: Charles Ellis (Whitehead Institute)

November 9, 2018
Yale University

The Role of Art History in a Liberal Education*

Featured Speaker: Mary Miller (Yale University)

January 25, 2019
Yale University

Evolution of the Female Orgasm*

Featured Speaker: Günter Wagner (Yale University)

April 1, 2019
Yale University

Morton L. Mandel Public Lecture A Conversation about Frederick Douglass*

Featured Speakers: Ian Shapiro (Yale University); David Blight (Yale University); Robert Stepto (Yale University).
Moderator: Crystal Feimster (Yale University)

DISTRICT OF COLUMBIA

WASHINGTON, D.C.

October 29, 2018
National Press Club

Science and the Legal System

Featured Speakers: Shari Seidman Diamond (Northwestern University Pritzker School of Law; American Bar Foundation); Richard O. Lempert (University of Michigan); Nancy Gertner (Harvard Law School; formerly, United States District Court for the District of Massachusetts); Jed S. Rakoff (United States District Court for the Southern District of New York; Columbia Law School); David S. Tatel (United States Court of Appeals for the District of Columbia Circuit)

October 30, 2018
Georgetown University

Satellite Discussion: The 2020 Census: Unprecedented Challenges & Their Implications

Featured Speaker: Robert Groves (Georgetown University)

December 4, 2018
Washington, D.C.

The Practice of Democratic Citizenship*

Featured Speakers: Danielle Allen (Harvard University); Stephen Heintz (Rockefeller Brothers Fund); Steven Knapp (The George Washington University); Jonathan Fanton (American Academy of Arts and Sciences)

March 19, 2019
National Press Club

Science During Crisis: The Release of a New Report and Call to Action

Featured Speakers: Rita R. Colwell (University of Maryland; formerly, National Science Foundation); Gary E. Machlis (Clemson University; formerly, U.S. National Park Service); Brad J. Kieserman (American Red Cross)

May 11, 2019
Politics and Prose Bookstore

Access to Justice

Featured Speakers: David M. Rubenstein (The Carlyle Group); Kenneth C. Frazier (Merck & Company, Inc.); Martha Minow (Harvard University); Rebecca L. Sandefur (University of Illinois at Urbana-Champaign; American Bar Foundation)

June 10, 2019
Carnegie Institution for Science

Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy

Featured Speakers: Dallas Burtraw (Resources for the Future); Ann Carlson (University of California, Los Angeles School of Law); Henry Waxman (formerly, U.S. House of Representatives)



Dahlia Lithwick and Judith Weisenfeld



John Palfrey



Anthony Jack (back row, third from the left) and attendees after a discussion about his new book.



Howard Gardner and Drew Gilpin Faust



Amanda Woodward



Speakers at the Celebration of the Arts and Humanities: **Richard Powell**, **Jacqueline Stewart**, **John Lithgow**, **Tania León**, **Viet Thanh Nguyen**, **Damian Woetzel**, and **Robert Millard**



Carol Gluck and **Anthony Long**

David Page and **Anthony Monaco**



Heinz Holliger (oboe), **Alexi Kenney** (violin), **Kim Kashkashian** (viola), and **Alexander Hersh** (cello)

FLORIDA

GAINESVILLE

October 11, 2018
University of Florida, Gainesville

Member Dinner hosted by President Kent Fuchs*

GEORGIA

ATLANTA

September 6, 2018
Emory University

Morton L. Mandel Public Lecture
**The Study of African American Women's Writing:
Pasts and Futures**

Featured Speakers: Frances Smith Foster (Emory University); Beverly Guy-Sheftall (Spelman College); Pellom McDaniels III (Emory University); Dwight A. McBride (Emory University). *Moderator:* Michelle M. Wright (Emory University)

ILLINOIS

CHICAGO

October 24, 2018
University of Chicago

**Why Bother? Rethinking Participation in
Elections and Protests***

Featured Speaker: Susan Stokes (University of Chicago)

May 1, 2019
University of Chicago

**Member Reception with Academy President
David W. Oxtoby**

INDIANA

BLOOMINGTON

October 26, 2018
Indiana University

**Member Luncheon hosted by President Michael
McRobbie**

MASSACHUSETTS

CAMBRIDGE

July 25, 2018
House of the Academy

Old in Art School

Featured Speaker: Nell Painter (Princeton University)

September 12, 2018
House of the Academy

Social Reception*

September 13, 2018
House of the Academy

Biomedical Science and the Academy

Featured Speaker: Robert Langer (MIT)

October 5, 2018
Massachusetts Institute of Technology

A Celebration of the Arts and Humanities

Featured Speakers: Viet Thanh Nguyen (University of Southern California); Jacqueline Stewart (University of Chicago); Damian Woetzel (The Juilliard School); Tania León (City University of New York); Richard J. Powell (Duke University); John Lithgow (Actor and Author)

October 6, 2018
Cambridge, MA

Induction Ceremony

Featured Speakers and Performers: Linda T. Elkins-Tanton (NASA Psyche Mission; Arizona State University; Beagle Learning); Huda Y. Zoghbi (Baylor College of Medicine); Mariano-Florentino Cuéllar (Supreme Court of California); Robert Gooding-Williams (Columbia University); David Miliband (International Rescue Committee); André Watts (Pianist; Indiana University Jacobs School of Music)

October 7, 2018
House of the Academy

Annual David M. Rubenstein Lecture

Featured Speakers: David M. Rubenstein (The Carlyle Group); Sonia Sotomayor (Supreme Court of the United States)



Antonia Hernández and Louise H. Bryson



Gordon Gill, Jonathan Fanton, and Pradeep Khosla



Douglas Soltis, Pamela Soltis, David Oxtoby, and Scott Vernon Edwards



Danielle Allen and Anthony Jack



Gary Ruvkun and Mark Fishman

CONTINUED Massachusetts

October 15, 2018

House of the Academy

*in collaboration with the Massachusetts
Historical Society*

“All Legislative Powers . . .” Article 1 of the U.S. Constitution, Then and Now

Featured Speakers: Margaret H. Marshall (Choate, Hall & Stewart; formerly, Supreme Judicial Court of Massachusetts); Jack N. Rakove (Stanford University). *Moderator:* Sanford V. Levinson (University of Texas at Austin; Harvard Law School)

October 30, 2018

House of the Academy

***Distinguished Morton L. Mandel Annual Public Lecture* The 2020 Census: Unprecedented Challenges & Their Implications**

Featured Speaker: Kenneth Prewitt (Columbia University)

November 2, 2018

House of the Academy

Auditing Leadership Performance: Where Boards Often Fail

Featured Speakers: Mitchell Rabkin (Beth Israel Deaconess Medical Center; Harvard Medical School); Susan Friedman (Strategy Consultant)

November 29, 2018

House of the Academy

An Evening of Music and Conversation with Kenny Barron

Featured Speakers: Kenny Barron (Pianist; Composer; Arranger; NEA Jazz Master); William Damon (Stanford University); Felton Earls (Harvard T.H. Chan School of Public Health; Harvard Medical School). *Moderator:* Eric Jackson (WGBH; Northeastern University)

December 12, 2018

House of the Academy

Winter Concert

Featured performers: Alex Hersh (Cello); Heinz Holliger (Oboe); Kim Kashkashian (Viola); Alexi Kenney (Violin); Robert Levin (Piano)

December 14, 2018

House of the Academy

Modeling Time and Change in Historic Architecture

Featured Speaker: Caroline Bruzelius (Duke University)

December 20, 2018

House of the Academy

Meeting of the Boston Biotech Working Group

Featured Speakers: Sangeeta Bhatia (MIT); Susan Hockfield (MIT); Nancy Hopkins (MIT)

January 23, 2019

House of the Academy

Reception to Welcome Academy President David W. Oxtoby

January 28, 2019

House of the Academy

Meeting of the Boston Biotech Working Group

Featured Speakers: Sangeeta Bhatia (MIT); Susan Hockfield (MIT); Nancy Hopkins (MIT)

February 1, 2019

House of the Academy

Becoming Mary Sully: Toward an American Indian Abstract

Featured Speaker: Philip J. Deloria (Harvard University)

February 8, 2019

House of the Academy

Women Composers of Europe

Chamber series in collaboration with the Cantata Singers



Wade Harper and Susan Dymecki

Kenneth Prewitt



Nancy Andrews, Ernest Moniz, Ashton Carter, and David Oxtoby



K. Tsianina Lomawaima and Robert Warrior

Danielle Allen and Mariano-Florentino Cuéllar

CONTINUED Massachusetts

February 13, 2019

House of the Academy

in collaboration with the Harvard Graduate School of Education

The Privileged Poor

Featured Speakers: Bridget Terry Long (Harvard Graduate School of Education); Anthony Jack (Harvard University); Danielle Allen (Harvard University)

March 6, 2019

House of the Academy

Building, Exploring, and Using the Tree of Life

Featured Speakers: Douglas E. Soltis (University of Florida); Pamela S. Soltis (University of Florida). *Moderator:* Scott Vernon Edwards (Harvard University)

March 20, 2019

House of the Academy

An International Anti-Corruption Court

Featured Speakers: Robert Rotberg (World Peace Foundation; Harvard Kennedy School); Richard Goldstone (Constitutional Court of South Africa); Mark Wolf (United States District Court for the District of Massachusetts)

April 3, 2019

House of the Academy

How Russian Hackers and Trolls Helped Elect a President

Featured Speaker: Kathleen Hall Jamieson (University of Pennsylvania)

April 4, 2019

House of the Academy

Boston-Cambridge Program Committee Meeting*

April 11, 2019

House of the Academy

Annual Awards Ceremony: Presentation of the Award for Excellence in Public Policy and Public Affairs and The Rumford Prize

Featured Speakers: Ash Carter (Harvard Kennedy School; formerly, U.S. Department of Defense); Ernest Moniz (Energy Futures Initiative; Nuclear Threat Initiative; formerly, U.S. Department of Energy); Lucia Rothman-Denes (University of Chicago); Edward Boyden (MIT)

April 26, 2019

House of the Academy

Women Composers of America

Chamber series in collaboration with the Cantata Singers

May 7, 2019

House of the Academy

Safe Spaces, Brave Spaces: Diversity and Free Expression in Education

Featured Speakers: John Palfrey (Philips Academy Andover; John D. and Catherine T. MacArthur Foundation); Martha Minow (Harvard University)

May 8, 2019

House of the Academy

An International Anti-Corruption Court: Second Discussion

Featured Speakers: Robert Rotberg (World Peace Foundation; Harvard Kennedy School); Richard Goldstone (Constitutional Court of South Africa); Mark Wolf (United States District Court for the District of Massachusetts); Carlos Holmes Trujillo (Ministry of Foreign Affairs, Republic of Colombia)

May 10, 2019

House of the Academy

Age-Related Macular Degeneration: A Journey from the Bench to the Clinic

Featured Speaker: Patricia D'Amore (Massachusetts Eye and Ear; Harvard Medical School)

May 14, 2019

House of the Academy

Meeting of the Boston Biotech Working Group



Nancy Cantor addressing members at a reception in New York



Participants at an authors' conference for an issue of *Dædalus* on Women & Equality



Rumford Prize recipients (left to right) **Georg Nagel**, **Gero Miesenböck**, **Ernst Bamberg**, **Peter Hegemann**, and **Edward Boyden**



Judith Eisen and **Natalie Ahn**



Robert Levin (piano) and **Heinz Holliger** (oboe)

MISSOURI

ST. LOUIS

October 24, 2018
Washington University in St. Louis

Playing It Forward in Classical Music*

Featured Speakers: David Robertson (The Julliard School; formerly, St. Louis Symphony Orchestra); Robert Peterson (St. Louis Public Radio)

April 12, 2019
Washington University in St. Louis

Shaping the Public Face of Science

Featured Speakers: Barbara Schaal (Washington University in St. Louis); Peter Raven (Missouri Botanical Garden); Erica Kimmerling (American Academy of Arts and Sciences)

April 18, 2019
Washington University in St. Louis

St. Louis Program Committee Meeting*

May 2, 2019
Pulitzer Arts Foundation

A Conversation with Emily Rauh Pulitzer*

Featured Speakers: Emily Rauh Pulitzer (Pulitzer Arts Foundation); Cara Starke (Pulitzer Arts Foundation)

NORTH CAROLINA

CHAPEL HILL

May 28, 2019
University of North Carolina at Chapel Hill

Research Triangle Program Committee Meeting*

NEW JERSEY

PRINCETON

March 28, 2019
Princeton University

Reception with Academy President David W. Oxtoby*

NEW YORK

NEW YORK

November 26, 2018
New York, NY

Morton L. Mandel Public Lecture An Evening with Nicholas Kristof

Featuring: Nicholas Kristof (*The New York Times*)

March 11, 2019
New York, NY

Reception to Welcome Academy President David W. Oxtoby

June 3, 2019
New York, NY

New Member Reception

Featured Speakers: Annette Gordon-Reed (Harvard University; Harvard Law School; Radcliffe Institute for Advanced Study); David W. Oxtoby (American Academy of Arts and Sciences)

OHIO

COLUMBUS

October 30, 2018
Ohio State University

Satellite Discussion: The 2020 Census: Unprecedented Challenges & Their Implications

Featured Speaker: Janet Box-Steffensmeier (Ohio State University)



Matthew Santirocco and Richard Revesz



John Grotzinger speaking about NASA's Mars Science Laboratory mission.



Sanford Levinson, Margaret Marshall, and Jack Rakove



James Wolfensohn and Jonathan Fanton



Kenny Barron performing at the Academy

PENNSYLVANIA

PHILADELPHIA

September 20, 2018
University of Pennsylvania

Understanding Public Attitudes and Engagement with Science

October 30, 2018
American Philosophical Society

Satellite Discussion: The 2020 Census: Unprecedented Challenges & Their Implications

Featured Speaker: Robert M. Hauser (American Philosophical Society)

March 27, 2019
Philadelphia, PA

Reception with Academy President David W. Oxtoby

May 20, 2019
Philadelphia, PA

New Member Dinner

RHODE ISLAND

PROVIDENCE

October 23, 2018
Brown University

Frontlines of the Opioid Crisis: Innovative Science-Based Solutions*

Featured Speakers: Jill Pipher (Brown University); Christina Paxson (Brown University); Sheldon Whitehouse (U.S. Senate); Rebecca Boss (Rhode Island Department of Behavioral Healthcare); Traci Green (Brown University; Center of Biomedical Research Excellence [COBRE] on Opioids and Overdose); Brandon Marshall (Brown University; PreventOverdoseRI); Josiah Rich (Brown University; Center of Biomedical Research Excellence [COBRE] on Opioids and Overdose). *Keynote and Moderator:* Michael Botticelli (Boston Medical Center; formerly, Center for National Drug Control Policy, The White House)

TENNESSEE

NASHVILLE

May 20, 2019
Nashville, TN

Member Breakfast

WASHINGTON

SEATTLE

April 9, 2019
University of Washington

Seattle Program Committee Meeting*

INTERNATIONAL MEETINGS

UNITED KINGDOM

June 11, 2019
The British Academy

Member Reception with Academy President David W. Oxtoby and Presentation of the 2018 Sarton Prize for History of Science

Featured Speakers: David W. Oxtoby (American Academy); Sarton Prize winner Jenny Bulstrode (University of Cambridge; National Maritime Museum, Greenwich)



Michelle Wright, Frances Smith Foster, Beverly Guy-Sheftall, and Pellom McDaniels III discussing African American Women's Writing at a program held at Emory University



Donald Levy and David Oxtoby



Nicholas Kristof, at a gathering of members in New York



Kenny Barron (far right) in conversation with (left to right) **Eric Jackson, Tony Earls, and William Damon**.

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