

AMERICAN ACADEMY
OF ARTS & SCIENCES

2020

240 YEARS

OF SERVICE TO THE NATION
AND THE WORLD

PROJECTS, PUBLICATIONS & MEETINGS OF THE ACADEMY

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

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



From its founding in 1780, the mission of the American Academy of Arts and Sciences has been to examine the most complex issues of the day through the extraordinary and interdisciplinary strength of its membership. Ever since, the Academy has contributed critical insights into the moments that have defined our nation's history, such as the post-World War II recovery and the creation of the field of arms control during the Cold War. However, there have been other times when our voices have been silent. There is, for example, no record in the Academy's work of the 1918 Spanish Flu pandemic and very little in relation to the civil rights movement. These, I


believe, would have been instructive research and learning references in light of the profound events of this year.

It is, therefore, with gratitude that I submit this report on our projects, publications, and programs from the past year. Our members are lending their voices to today's deeply challenging issues, from the importance of the arts in free expression, education, and civic engagement, to negotiating the complexities of new nuclear states, to protecting those who serve on the front lines of violence and conflict, to shining a light on the inequities of our criminal justice system, to strengthening the practice of democratic citizenship. New and emerging projects will help promote environmental sustainability, understand the impacts of the COVID-19 pandemic, and examine the underpinnings of growing disparities in wealth and opportunity in our country.

The work described herein is made possible thanks to the philanthropy of our members. I am deeply grateful for such support that enables the Academy to elevate the use of evidence and knowledge, foster civil discourse, and advance the common good. I look forward to our continued work together in pursuit of these goals.

David W. Oxtoby

American Institutions, Society, and the Public Good



Since its founding, projects of the American Academy of Arts and Sciences that work to bolster American citizens' understanding of and engagement with the institutions of their government have been a hallmark of the Academy's work. Our charter states that the "end and design" of the American Academy is to "cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people." 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 in the twenty-first century. Projects in this area interpret the term "institution" broadly, focusing on all of the constituent elements of government and civil society. These projects 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 evolving. The Academy shares this research through publications, convenings, and active outreach.

PROGRAM ADVISORY COMMITTEE

CHAIR

Frances McCall
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Yale University

MEMBERS

Danielle Allen
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Thomas Bender
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Susan Hanson
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Antonia Hernández
*California Community
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William Poorvu
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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 project of the American Academy of Arts and Sciences. The Commission focuses on the impact of political institutions, civic culture, and civil society on individual practice in contemporary democracy in the United States. The work of the Commission explores the factors that encourage and discourage people from becoming engaged in their communities; sheds light on the mechanisms that help people connect across demographic and ideological boundaries; examines how the transformations in our media environment have altered what civic engagement looks like in many communities; and makes recommendations that will encourage participation and

empower everyday citizens. The project uses a definition of “citizenship” that extends beyond simple legal status to include people who are “civic participants” in many domains within their communities.

The project seeks to increase democratic engagement in the United States with recommendations that will help empower voters, increase political and civic participation, and revitalize our civic culture. *Our Common Purpose: Reinventing American Democracy for the 21st Century*, the Commission’s final report and recommendations, was released in June 2020 and included a call to have significant progress on all of its recommendations by 2026.

COMMISSION CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
Citizen University

Caroline Brettell
*Southern Methodist
University*

David Brooks
The New York Times

David Campbell
University of Notre Dame

Alan Dachs
Fremont Group

Lisa García Bedolla
*University of California,
Berkeley*

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

Marie Griffith
*Washington University
in Saint Louis*

Wallace Jefferson
*Alexander Dubose &
Jefferson, LLP*

Joseph Kahne
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Riverside*

Kei Kawashima-Ginsberg
Tufts University

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Sayu Bhojwani
*The New American Leaders
Project*

danah boyd
Data & Society

Dee Davis
Center for Rural Strategies

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

Hahrie Han
Johns Hopkins University

Antonia Hernández
*California Community
Foundation*

Yuval Levin
National Affairs

Carolyn Lukensmeyer
*National Institute for
Civil Discourse*

Martha McCoy
Everyday Democracy

CONTINUED Commission on the Practice of Democratic Citizenship

Lynn Nottage
Playwright

Steven Olikara
Millennial Action Project

Norman Ornstein
American Enterprise Institute

Bob Peck
FPR Partners

Pete Peterson
Pepperdine University

Miles Rapoport
Harvard University

Michael Schudson
Columbia University

Sterling Speirn
*National Conference
on Citizenship*

Marcelo Suárez-Orozco
*University of Massachusetts
Boston; formerly, University
of California, Los Angeles*

Ben Vinson
*Case Western Reserve
University*

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

Judy Woodruff
PBS

Ethan Zuckerman
*Massachusetts Institute
of Technology*

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Tania Munz

FUNDERS

S. D. Bechtel, Jr. Foundation

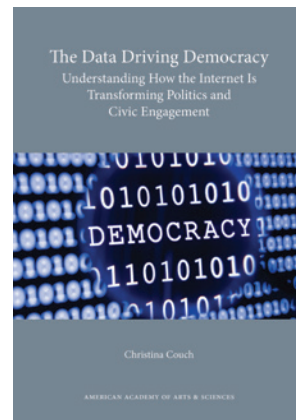
*Rockefeller Brothers
Foundation*

Alan and Lauren Dachs

PROJECT PUBLICATIONS



The Internet and Engaged Citizenship
David Karpf (American Academy of Arts and Sciences, 2019)



The Data Driving Democracy
Christina Couch (American Academy of Arts and Sciences, 2020)



The Political and Civic Engagement of Immigrants
Caroline Brettell (American Academy of Arts and Sciences, 2020)



Our Common Purpose: Reinventing American Democracy for the 21st Century
(American Academy of Arts and Sciences, 2020)

PROJECT MEETINGS

Meeting of the Commission

September 16–17, 2019
 Cedarbrook Lodge
 Seattle, WA

The fourth meeting of the full Commission on the Practice of Democratic Citizenship focused on finalizing the Commission’s findings and recommendations. The members of the Commission reviewed six strategies and thirty-one tactical recommendations and agreed by unanimous consent to endorse the final report.

MEETING CHAIRS

Danielle Allen
Harvard University

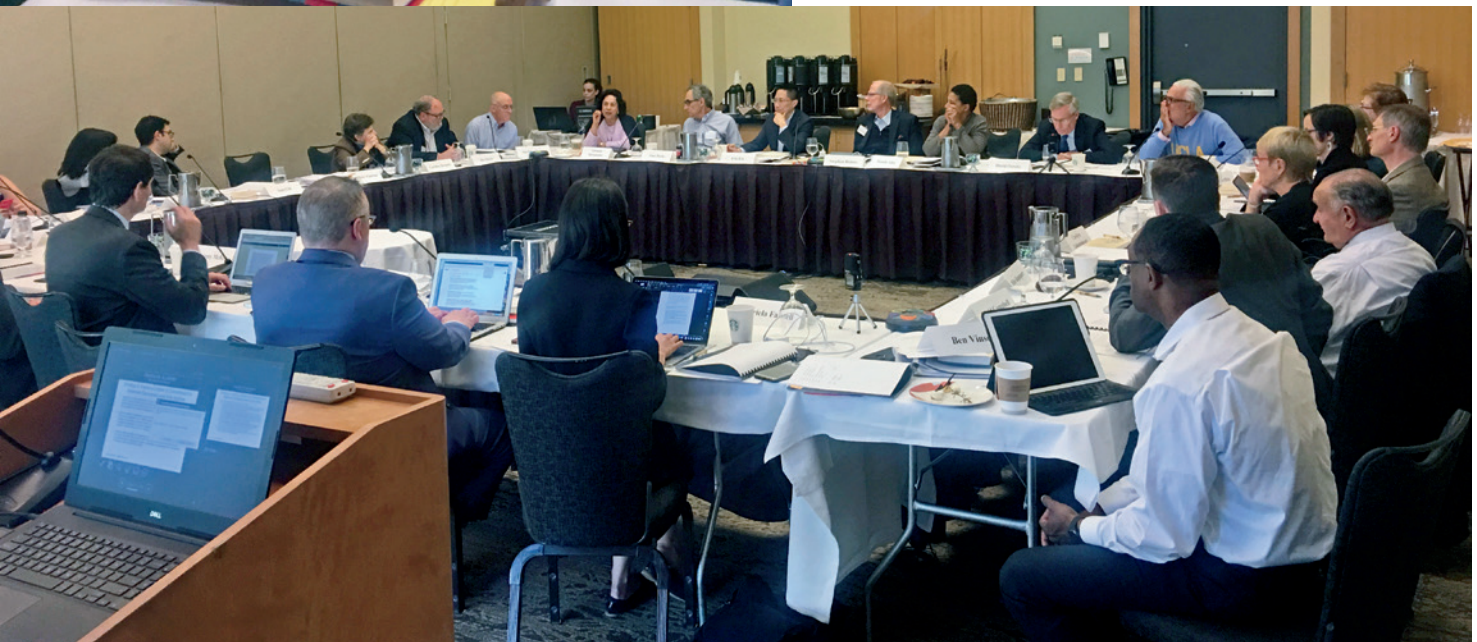
Eric Liu
Citizen University

Stephen Heintz
Rockefeller Brothers Fund



LEFT: Commission members at the September 16, 2019, meeting. From front to back: **Martha McCoy, Marie Griffith, Lisa García Bedolla, Joseph Kahne, David Campbell, and Ben Vinson.**

BELOW: Commission members and Academy President **David Oxtoby** at the Commission’s September 16, 2019, meeting.



Convening on the Practice of Democratic Citizenship

February 7, 2020
The House of the Academy
Cambridge, MA

A cornerstone of the work of the Commission on the Practice of Democratic Citizenship has been listening to the voices of American citizens. On February 7, 2020, the Commission brought together more than seventy participants from nearly all of its forty-seven listening sessions,

as well as Commission members, civic leaders, and philanthropists, to hear from one another and share their work through a series of panels, breakout sessions, and presentations.

PANEL 1: The Commission on the Practice of Democratic Citizenship

PANEL CHAIR

David Oxtoby
American Academy of Arts and Sciences

PARTICIPANTS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
Citizen University

PANEL 2: Inspire a Culture of Commitment to American Democracy and One Another

PANEL CHAIR

Eric Liu
Citizen University

PARTICIPANTS

Serene Jones
Union Theological Seminary

Mina Layba
City Manager's Office, City of Thousand Oaks

Cameron Patterson
Moton Museum

John Wood Jr.
Better Angels

PANEL 3: Dramatically Expand Civic Bridging Capacity

PANEL CHAIR

Stephen Heintz
Rockefeller Brothers Fund

PARTICIPANTS

Kim Covington
Arizona Community Foundation

Vanessa Grossl
BGCF365

Howard Parr
Akron Civic Theater

Jon Pritchett
Mississippi Center for Public Policy

PANEL 4: Empower Voters

PANEL CHAIR

Danielle Allen
Harvard University

PARTICIPANTS

Habon Abdulle
Women Organizing Women Network

Trey Grayson
former Secretary of State, Kentucky

Julio Medina
Exodus Transitional Community

Angela Cutbill (left; from Calabasas, CA) and **Richard Young** (right; from Lexington, KY) participate in the "Convening on the Practice of Democratic Citizenship."





TOP: From left to right: Academy President **David Oxtoby** and Commission Cochairs **Stephen Heintz**, **Danielle Allen**, and **Eric Liu** discuss the Commission's work during the convening held at the House of the Academy on February 7, 2020.

RIGHT: **Bradley Christian-Sallis** (from Lincoln, NE) describes the work of his organization, Civic Nebraska, to increase civic participation and community engagement.

BELOW: Participants at the "Convening on the Practice of Democratic Citizenship" held at the House of the Academy on February 7, 2020, discussed how to create an information environment that serves the public good for the twenty-first century.



Emergency Meeting of the Commission

March 27, 2020
Virtual Meeting

The full Commission on the Practice of Democratic Citizenship met via web conference to discuss the impact of the COVID-19 pandemic on the content of the final report and the plans for its release. Commission members agreed to modify the report slightly to account for the impact of the pandemic on the nation and to revise one of the thirty-one

recommendations to reflect the effect of emergencies on voter access to the polls. The Commission agreed the pandemic amplified the challenges and obstacles they sought to address in their work and therefore to release the report as planned in June.

MEETING CHAIRS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

Eric Liu
Citizen University

Release Event: Our Common Purpose: Reinventing American Democracy for the 21st Century

June 11, 2020
Virtual Event

Our Common Purpose: Reinventing American Democracy for the 21st Century, the final report of the Commission on the Practice of Democratic Citizenship, was released via an online webinar. The one-hour event included a video presentation of the Commission's work, an overview of the report's

six strategies and thirty-one recommendations, and comments by Commission members and featured speakers. The audience included members of the Academy, implementation Champions, listening session participants, and special guests.

SPEAKERS

Danielle Allen
Harvard University

Stephen Heintz
Rockefeller Brothers Fund

David Oxtoby
*American Academy of
Arts and Sciences*

Judy Woodruff
PBS

David Brooks
The New York Times

Eric Liu
Citizen University

PROJECT Making Justice Accessible

The two projects of the Making Justice Accessible initiative address the challenge of providing legal services to 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. In the fall of 2019, Microsoft’s pro bono office approached the Academy about this project; the interactions led to a joint, data-gathering pilot project between Microsoft, members of the data working group, and the Texas state courts. Participants are poised to act upon, and amplify, the Academy’s recommendations once the report is published in late 2020.

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. In the fall of 2019, project leaders enlisted the research assistance of associates from the offices of WilmerHale and began drafting the final report, on schedule to be released in September 2020.

The Making Justice Accessible initiative 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
Arizona State University

DESIGNING LEGAL SERVICES FOR THE 21ST CENTURY

PROJECT CHAIRS

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John Tessitore

FUNDER


*David M. Rubenstein
Enhancement Fund*

PROJECT PUBLICATION

“Access to Justice,” *Dædalus*
edited by Lincoln Caplan, Lance Liebman & Rebecca Sandefur (2019)



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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Nancy Peretsman
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Smith College

Paul Sagan
General Catalyst Partners

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, a comprehensive final

report, and an issue of *Daedalus* on improving teaching. 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 engaged in a range of outreach activities 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

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University of Wisconsin-
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Georgetown University

Jeremy Johnson
Andela

Michael McPherson
formerly, Spencer Foundation

John Seely Brown
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Monica Lozano
College Futures Foundation

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Hilary Pennington
Ford Foundation

Beverly Daniel Tatum
Spelman College

Shirley M. Tilghman
Princeton University

Michelle Weise
Strada Education Network

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Sandy Baum
Urban Institute

Ronald G. Ehrenberg
Cornell University

Bridget Terry Long
Harvard Graduate School of Education

Judith Scott-Clayton
Teachers College, Columbia University

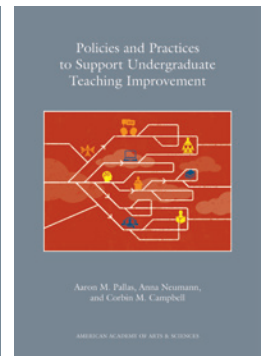
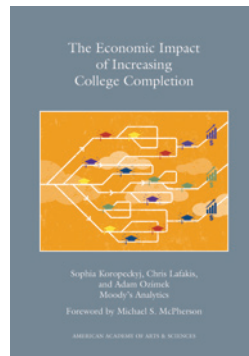
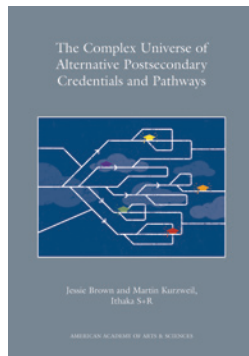
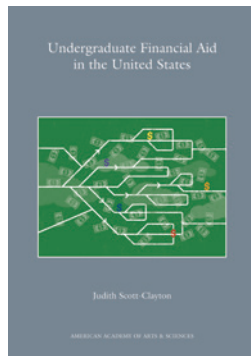
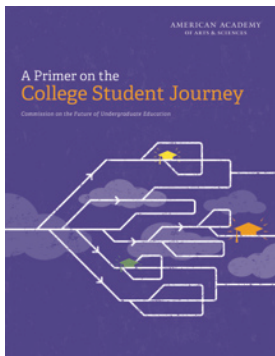
PROJECT STAFF

Francesca Purcell
Beth Niegelsky

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Carnegie Corporation of New York
TIAA Institute

PROJECT PUBLICATIONS



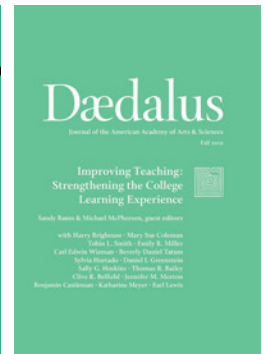
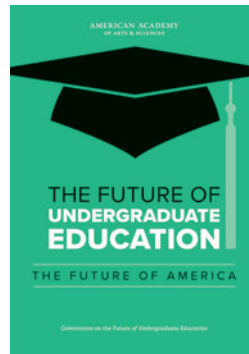
A Primer on the College Student Journey
(American Academy of Arts and Sciences, 2016)

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 Koropeczyk, 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)

“Improving Teaching: Strengthening the College Learning Experience,” Dædalus
edited by Sandy Baum & Michael S. McPherson (2019)

PROJECT VIDEOS



Cornell's Active Learning Initiative video – National Priority: Quality



Florida State University's Graduation Rates video – National Priority: Completion



Cincinnati State's Accelerate Program video – National Priority: Affordability

PROJECT MEETING

Young Adult Mental Health and Well-Being: Higher Education's Responsibility

September 5–6, 2019
 House of the Academy
 Cambridge, MA

On the campuses of residential colleges and universities, young adults (eighteen to twenty-five years old) are experiencing an intensifying crisis of their mental health and well-being. Students have increasing levels of depression and anxiety, which interfere with and may interrupt both their academic and developmental progress.

In many instances, higher education institutions have responded by expanding mental health services and resources that focus on the individual student's needs. However, the availability and provision of clinical care do not appear to be mitigating the crisis. Perhaps a pivot to a systemic intra- and inter-institutional response is required. Both mental health leaders and university presidents may need to consider addressing issues of academic climate and culture, both on campuses and as promoted by the higher education institutions collectively.

In this gathering of university presidents and mental health leaders, several critical issues were considered: the role of higher education in the development of young adults; what students are telling us about their mental health during college and graduate education; how the current research on young adult development and well-being can frame our thinking; and how colleges and universities can engage with other institutions and entities to jointly foster the mental health of young adults. The goals of this meeting were to explore the roles colleges and universities have in creating campus cultures that foster student mental health and well-being; to deepen understanding of how recent research can inform this work; and to identify pathways forward.

CONTINUED Young Adult Mental Health and Well-Being: Higher Education's Responsibility

MEETING CHAIRS

John J. DeGioia
Georgetown University

David Oxtoby
*American Academy of
Arts and Sciences*

PANELISTS

Daniel Eisenburg
*University of Michigan;
Healthy Minds Network*

Wayne Frederick
Howard University

Elizabeth Gong-Guy
*UCLA Campus and Student
Resilience*

Laura Horne
Active Minds

Paula Johnson
Wellesley College

Sarah K. Lipson
*Boston University School
of Public Health*

Jacqueline Looney
Duke University

Vikram Patel
Harvard Medical School

Stephanie Pinder-
Amaker
*McLean Hospital College
Mental Health Program*

Zoe Ragouzeos
NYU Student Mental Health

Julie Reuben
*Harvard Graduate School
of Education*

Chad Wellmon
University of Virginia

MODERATORS

Paul Barreira
Harvard Medical School

Wendy Fischman
Harvard University

Suzy Nelson
*Massachusetts Institute
of Technology*

Stephanie Bell Rose
TIAA Institute



Michael Lomax (United Negro College Fund) at the meeting on Young Adult Mental Health and Well-Being: Higher Education's Responsibility.



TOP: Participants at the meeting on Young Adult Mental Health and Well-Being included healthcare professionals, college and university administrators, researchers, and advocates. Their discussions focused on mental health programs implemented at institutions across the country.

RIGHT: **Elizabeth Gong-Guy** (UCLA Campus and Student Resilience) presented on a panel that examined the data on student mental health and factors contributing to the rise in anxiety and depression in young people.

BELOW: **Wayne Frederick** (Howard University) and **Jaqueline Looney** (Duke University) describe the challenges of and strategies for addressing mental health issues at residential colleges and universities.



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 substantial policies to address crucial issues affecting the 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.



COMMITTEE ON INTERNATIONAL SECURITY STUDIES

CHAIR

Scott D. Sagan
Stanford University

Christopher Chyba
Princeton University

Nicholas Kristof
The New York Times

Barry Posen
Massachusetts Institute of Technology

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

Susan Landau
Tufts University

Adam Roberts
University of Oxford

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Tanisha Fazal
University of Minnesota

Robert Legvold
Columbia University

Jennifer M. Welsh
McGill University

Antonia Chayes
Tufts University

Martha Finnemore
George Washington University

Rose McDermott
Brown University

Paul H. Wise
Stanford University

Steven E. Miller
Harvard University

COMMITTEE MEETING

Annual Meeting of the Committee on International Security Studies (CISS)

October 10, 2019
House of the Academy
Cambridge, MA

During the annual meeting, CISS members reviewed the progress of current projects within the Global Security and International Affairs program area, discussed how CISS

members are seeking to ensure the impact of their various scholarly activities, and brainstormed key areas for future Academy work on global security and international affairs.

MEETING CHAIR

Scott D. Sagan
Stanford University

KEYNOTE SPEAKERS

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

Nicholas Kristof
The New York Times



Nicholas Kristof (*The New York Times*) and **Tanisha Fazal** (*University of Minnesota*)

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

The world has entered a new nuclear era. No longer dominated by two nuclear superpowers, the evolving multipolar nuclear order presents fundamental challenges to the conceptual and practical means of avoiding nuclear war. Moreover, the new era has slowly dismantled the bilateral arms control framework, with no clear prospect that it will be revived and extended. The possibility that a framework or frameworks encompassing other, let alone all, nuclear powers can be achieved seems even more remote. In addition, advances in weapons technology and the opening of new frontiers, such as cyber capabilities and artificial intelligence, make a shifting environment still more complex. The pathways to inadvertent nuclear war have multiplied across more regions and relationships.

Since 2017, the Meeting the Challenges of the New Nuclear Age project has worked to identify the major dangers generated by the dynamics of a multipolar nuclear world that pose the greatest threat of inadvertent nuclear war; offer alternative approaches to addressing each of these dangers; 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 our increasingly multipolar world. The publications produced by the project have been shared widely with domestic and international policy-makers, scholars and students of nuclear affairs, and leaders of international organizations.

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. Today, more than ever, an effort that brings together scholars and policy-makers to examine the wide range of challenges posed by the changing nuclear order is urgently needed.

PROJECT CHAIRS

Robert Legvold
Columbia University

Christopher Chyba
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STEERING COMMITTEE

Thomas J. Christensen
Princeton University

Lynn Eden
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Steven E. Miller
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Janne Nolan†
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Scott D. Sagan
Stanford University

Jon Wolfsthal
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WORKING GROUP MEMBERS

James M. Acton
Carnegie Endowment for International Peace

Mark Bell
University of Minnesota

Linton Brooks
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Michael Krepon
Stimson Center

Hans Kristensen
Federation of American Scientists

Jessica Tuchman Mathews
Carnegie Endowment for International Peace

Nicholas Miller
Dartmouth College

Steven E. Miller
Harvard University

Vipin Narang
Massachusetts Institute of Technology

Janne Nolan†
George Washington University

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

Mira Rapp-Hooper
Yale Law School

Scott D. Sagan
Stanford University

Michael Swaine
Carnegie Endowment for International Peace

Nina Tannenwald
Brown University

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

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Temple University

Keren Yarhi-Milo
Princeton University

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Kathryn Moffat

Tania Munz

Brendan Roach

Kathleen Torgesen

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Louise Henry Bryson and
John E. Bryson

John F. Cogan, Jr. †

Lester Crown

Alan M. Dachs

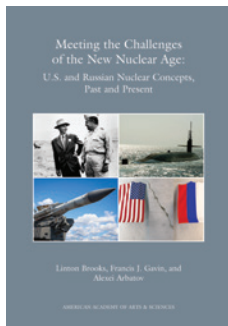
Bob and Kristine Higgins

Richard Rosenberg

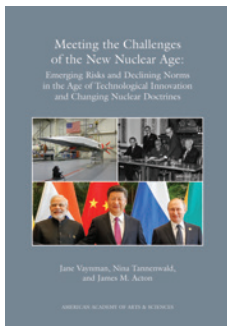
Kenneth L. and Susan S.
Wallach

† Deceased

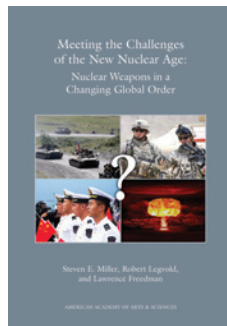
PROJECT PUBLICATIONS



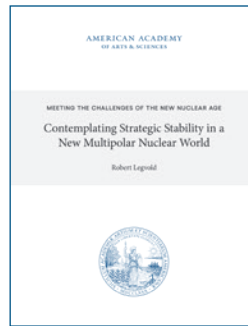
Meeting the Challenges of the New Nuclear Age: U.S. and Russian Nuclear Concepts, Past and Present
Linton Brooks, Alexei Arbatov, and Francis J. Gavin
(American Academy of Arts and Sciences, 2018)



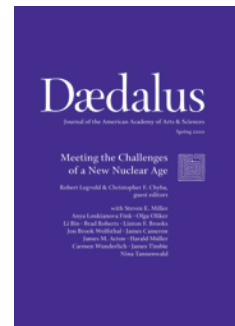
Meeting the Challenges of the New Nuclear Age: Emerging Risks and Declining Norms in the Age of Technological Innovation and Changing Nuclear Doctrines
Nina Tannenwald and James M. Acton, with an Introduction by Jane Vaynman
(American Academy of Arts and Sciences, 2018)



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)



Contemplating Strategic Stability in a New Multipolar Nuclear World
Robert Legvold
(American Academy of Arts and Sciences, 2019)



“Meeting the Challenges of a New Nuclear Age,” Dædalus
edited by Robert Legvold & Christopher Chyba (2020)

PROJECT MEETING

Nuclear Weapons in a Changing Global Order: Hill Briefings

July 31, 2019
Capitol Hill
Washington, DC

Steven Miller, a member of the project's steering committee, and Academy staff briefed foreign policy and national security staff in several Senate offices on the Academy's work on Meeting the Challenges of the New Nuclear Age as well as Promoting Dialogue on Arms Control and Disarmament. The discussions focused on key project findings, background on the changing multipolar nuclear order, and plans for continued engagement around the Academy's portfolio of nuclear work.

MEETING CHAIR

Steven E. Miller
Harvard University

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

With the emergence of three new nuclear powers (India, Pakistan, and North Korea) and several more potentially becoming nuclear states (including Iran, Saudi Arabia, and Turkey), the world is on the verge of a new nuclear age, which will demand new thinking about the security implications of nuclear powers that may be in highly hostile environments, suffer from domestic instability, have fewer resources, or be led by personalist dictators. Phase Two of Meeting the Challenges of the New Nuclear Age

investigates the deterrence and defense implications facing small nuclear force-countries and potential proliferators.

The project is producing an edited volume of innovative, policy-relevant essays that will be published by a university press. Outreach activities will be 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

Scott D. Sagan
Stanford University

Vipin Narang
Massachusetts Institute of Technology

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Georgetown University

Lawrence Freedman
King's College London

Robert Jervis
Columbia University

Jeffrey Lewis
Middlebury Institute for International Studies at Monterey

Rose McDermott
Brown University

Barry Posen
Massachusetts Institute of Technology

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Brendan Roach
Kathleen Torgesen

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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

† Deceased

PROJECT MEETING

Deterrence and New Nuclear States Authors' Workshop

November 17–18, 2019
Stanford University
Stanford, CA

The authors of the forthcoming edited volume on deterrence and new nuclear states gathered for a two-day workshop to review the draft essays and discuss the volume's cross-cutting conclusions and specific policy implications.

MEETING CHAIRS

Scott D. Sagan
Stanford University

Vipin Narang
*Massachusetts Institute of
Technology*

KEYNOTE SPEAKER

William J. Perry
*Stanford University; formerly,
U.S. Department of Defense*



Scott Sagan (Stanford University) addresses the authors and guests at the Deterrence and New Nuclear States authors' workshop. From left to right: **Reid Pauly** (Stanford University), **William J. Perry** (Stanford University; formerly, U.S. Department of Defense), and **Jeffrey Lewis** (Middlebury Institute for International Studies at Monterey).

PROJECT Promoting Dialogue on Arms Control and Disarmament

Unlike the Cold War, the current nuclear age is characterized by a simultaneous collapse of arms control agreements and the absence of any strategic dialogue among the three main nuclear players, which would serve to minimize and reduce the potential risks of a nuclear escalation.

One strand of the project's work consists of a series of bilateral U.S.-Russia and U.S.-China dialogues designed to identify critical short-term goals in arms control. The meetings will identify areas for cooperation and conceptual thinking about measures that might strengthen strategic stability and help to reduce the significant dangers of nuclear weapons being used in the future. Through reports and outreach activities, the project aims

to contribute to rebuilding trust and predictability among the rival Great Powers.

A second strand of work will build on the Academy's experience organizing educational sessions for the United States Congress on a range of topics, including cybersecurity, disaster response, and federal research policy in addition to nuclear issues. Through a series of engagements with members of Congress and their staff, the project will help to foster and strengthen knowledge on key issues and challenges facing the United States in arms control and international security, including renewal of the New START treaty and the dangers of a world without nuclear constraints.

PROJECT CHAIR

Steven E. Miller
Harvard University

PROJECT STAFF

Poul Christiansen
Francesca Giovannini
Kathryn Moffat

FUNDER

*The Raymond Frankel
Foundation*

Tania Munz
John Randell
Brendan Roach
Kathleen Torgesen

PROJECT MEETINGS

The Collapse of Arms Control: Implications and Consequences

October 23, 2019
Capitol Hill
Washington, D.C.

This briefing for congressional staffers from both House and Senate offices highlighted the perils associated with the decline and potential collapse of arms control and underscored the urgent need for dialogue among the key protagonists, particularly in the United States and Russia. Project Chair Steven Miller discussed how the global nuclear order has evolved since the Cold War, the implications of the collapse of arms controls agreements, the absence of any strategic dialogue among the three main nuclear players that would serve to minimize and reduce the potential risks of a nuclear escalation, and the Academy's current nuclear policy work.

MEETING CHAIR

Steven E. Miller
Harvard University

Shanghai Bilateral Meeting

December 4–5, 2019
Shanghai Academy of Social Sciences
Shanghai, China

Project Chair Steven Miller led a delegation of U.S. former officials and experts to a two-day meeting that focused on a number of arms control issues in order to gain a better understanding of Chinese perspectives on current arms control priorities. The meetings also revealed the areas on which Chinese experts would like to engage further with U.S. and Russian experts.

MEETING CHAIR

Steven E. Miller
Harvard University



Steven Miller (Harvard University) speaking to congressional staffers, with **Kathryn Moffat** (American Academy) to his right.



Steven Miller (front center) with participants at the Shanghai Bilateral Meeting.

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. 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 that focuses 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
formerly, *Stanford University*;
U.S. Army, ret.

Stephen Krasner
Stanford University

Abdeta D. Beyene
*Centre for Dialogue,
Research, and Cooperation,
Ethiopia*

Stephen D. Biddle
Columbia University

Tanja A. Börzel
Freie Universität Berlin

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Stanford University

Charles Call
American University

Susanna Campbell
American University

Martha Crenshaw
Stanford University

Lyse Doucet
BBC News

Tanisha Fazal
University of Minnesota

James Fearon
Stanford University

Vanda Felbab-Brown
Brookings Institution

Francis Fukuyama
Stanford University

Sumit Ganguly
Indiana University

Miguel García-Sánchez
*Universidad de los Andes,
Colombia*

CONTINUED **Civil Wars, Violence, and International Responses**

Richard Gowan
New York University

Sonja Grimm
*University of Konstanz,
Germany*

Jean-Marie Guéhenno
International Crisis Group

Joseph Hewitt
*United States Institute
of Peace*

Stephen Heydemann
Smith College

Bruce Jones
Brookings Institution

Stathis Kalyvas
Yale University

Nancy Lindborg
*United States Institute
of Peace*

Sarah Kenyon Lischer
Wake Forest University

Clare Lockhart
Institute for State Effectiveness

Aila M. Matanock
*University of California,
Berkeley*

Seyoum Mesfin
*Institute for Advanced
Research, Ethiopia*

Stewart Patrick
Council on Foreign Relations

Barry Posen
*Massachusetts Institute
of Technology*

William Reno
Northwestern University

Thomas Risse
Freie Universität Berlin

Hendrik Spruyt
Northwestern University

Stephen Stedman
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Eric Stollenwerk
Freie Universität Berlin

Paul H. Wise
Stanford University

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Summers Hammel

Kathryn Moffat

Tania Munz

Kathleen Torgesen

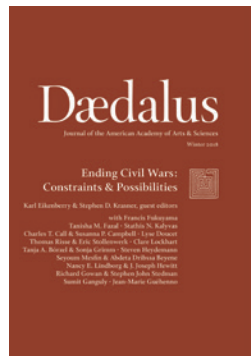
FUNDERS

Humanity United

Smith Richardson Foundation

Oak Foundation

PROJECT PUBLICATIONS



“Civil Wars & Global Disorder: Threats & Opportunities,”
Dædalus

edited by Karl Eikenberry & Stephen Krasner (2017)

“Ending Civil Wars: Constraints & Possibilities,” *Dædalus*

edited by Karl Eikenberry & Stephen Krasner (2018)

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 evolving challenges for humanitarian health responders. Among the most pressing challenges are the increasingly protracted nature of civil and noninternational 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 brings 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 project's initial work will focus on two key priority areas. First, building on its efforts to address the political and security dimensions of pandemic response in areas of weak governance and violent conflict, the initiative will convene

a series of rapid-cycle workshops on global cooperation and pandemic control. Drawing upon the Academy's strengths in political science, diplomacy, global health, and the arts, the project will explore how political legitimacy, trust in expert authority and information, divisive political environments, and cultural mechanisms of community protection and social cohesion shape the ability of states and international institutions to respond to infectious outbreaks.

Second, to respond to the acute challenges that humanitarian organizations face in addressing health needs in areas with extreme levels of political or criminal violence – settings that now account for more violent deaths than war zones – and in places where people are fleeing from such violence, the project will convene interdisciplinary groups of experts from across multiple regions to explore the questions state sovereignty poses for humanitarians operating in such settings and to analyze and examine how the dynamics of political and criminal violence influence humanitarian responses.

PROJECT CHAIRS

Jaime Sepulveda
*University of California,
San Francisco*

Paul H. Wise
Stanford University

Jennifer M. Welsh
McGill University

PROJECT STAFF

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Tania Munz

Rebecca Tiernan

Kathleen Torgesen

FUNDERS

*Louise Henry Bryson and
John E. Bryson*

PROJECT MEETINGS

Meetings in New York City

New York, NY
February 27–28, 2020

During a series of individual and small-group meetings, the project cochairs solicited input from experts with extensive experience in policy and diplomacy relating to humanitarian responses in areas of violent conflict and extreme levels of political and criminal violence.

MEETING CHAIRS

Jennifer M. Welsh
McGill University

Paul H. Wise
Stanford University

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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Johanna Drucker
*University of California,
Los Angeles*

MEMBERS

Richard Brodhead
Duke University

Colin Dayan
Vanderbilt University

Thomas Gunning
University of Chicago

Maria Hummer-Tuttle
The J. Paul Getty Trust

Jacqueline Jones
University of Texas at Austin

Mary C. Kelley
University of Michigan

Jane Dammen McAuliffe
Library of Congress

Jahan Ramazani
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 seeks to reframe the national conversation about what role the arts can play in a diverse twenty-first-century democracy. The national focus of the project is reflected in the composition of its membership, which spans the cultural field and the geography of the United States; its members represent over a dozen states and more than forty organizations, disciplines, and institutions. The Commission is guided by the central premise

that the arts are necessary to both individual and civic life and that artists are crucial members of healthy communities. Among other reports and creative elements, the Commission's final products will include policy recommendations 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 and Author

Deborah F. Rutter
*The 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 Bordeaux
First Peoples Fund

Pam Breaux
*National Assembly of State
Arts Agencies*

COMMISSION MEMBERS

Diane Ackerman
Author, Poet, and Naturalist

Elizabeth Alexander
*The Andrew W. Mellon
Foundation*

Maribel Alvarez
The University of Arizona

Jeffrey Brown
PBS NewsHour

Louise H. Bryson
The J. Paul Getty Trust

Francis Collins
National Institutes of Health

James Cuno
The J. Paul Getty Trust

Paul DiMaggio
New York University

Oskar Eustis
The Public Theater

Katherine Farley
*Lincoln Center for the
Performing Arts*

Theaster Gates, Jr.
Rebuild Foundation

Paula Giddings
Smith College

Olivia Gude
*School of the Art Institute
of Chicago*

Vijay Gupta
Street Symphony

Vicky Holt Takamine
Pua Ali'i 'Ilim

Maria Hummer-Tuttle
The J. Paul Getty Trust

Gish Jen
Novelist

Brian Kisida
University of Missouri

Angela La Porte
University of Arkansas

Tania León
Composer and Conductor

Robert Lynch
Americans for the Arts

CONTINUED Commission on the Arts

Sonia Manzano
Actress and Author

Michael O'Bryan
The Village of Arts and Humanities

Felix Padrón
Arts Management Professional and Artist

Annise Parker
LGBTQ Victory Fund

Mwalim (Morgan James Peters)
University of Massachusetts Dartmouth

Victoria Rogers
John S. and James L. Knight Foundation

Jacqueline Stewart
The University of Chicago

Yancey Strickler
Kickstarter

Steven Tepper
Arizona State University

Roberta Uno
Arts in a Changing America

Zannie Voss
Southern Methodist University National Center for Arts Research

Carrie Mae Weems
Photographer

Damian Woetzel
The Juilliard School

Jay Xu
Asian Art Museum of San Francisco

Kevin Young
Schomburg Center for Research in Black Culture

Laura Zabel
Springboard for the Arts

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Allentza Michel
Tania Munz

FUNDERS

Ford Foundation
The Getty Foundation
The John S. and James L. Knight Foundation
The Kresge Foundation
The Barr Foundation
Roger and Victoria† Sant

† Deceased

PROJECT MEETINGS

Branches from the Same Tree: Conversations on the Integration of Arts, Humanities, and STEM in Higher Education

October 25, 2019
House of the Academy
Cambridge, MA

The Academy hosted a one-day conference in partnership with the National Academies of Sciences, Engineering, and Medicine on their recently released report *Branches from the Same Tree: The Integration of the Humanities and Arts with*

Sciences, Engineering, and Medicine in Higher Education. The conference included interactive and engaging panel presentations, performances, and breakout discussions, each exploring a different element of cross-disciplinary learning.

SPEAKERS

Francisco Alarcon
Boston University

Sari Altschuler
Northeastern University

Sarah Cunningham
Rhode Island School of Design

Bonnie Thornton Dill
University of Maryland

Leila Kinney
Massachusetts Institute of Technology

Lynn Pasquerella
Association of American Colleges and Universities

Sunil Iyengar
National Endowment for the Humanities

Ilya Vidrin
Harvard University

“Rural Arts and Cultural Development” Webinar

December 4, 2019
Virtual Event

The second webinar sponsored by the Commission examined new developments in arts and culture in rural communities. The featured panelists discussed how rural communities are uniquely leveraging the arts to foster community

and economic development. Each panelist brought a unique perspective to the conversation, from producing events and festivals to building support networks of artists to employing art as a catalyst for social conversations.

WEBINAR CHAIR

Laura Zabel
Springboard for the Arts

SPEAKERS

Kara Schmidt
PaoliFest and Black Vulture Project (Indiana)

Jonny Stax
Consultant and Founder of ArtFarm (Iowa)

Matthew Fluharty
Art of the Rural (regional Midwest)

Michelle Ramos
Alternate Roots (regional South)

Actors from Catalyst Collaborative@MIT perform a scene from *Einstein's Dreams* at the event “Branches from the Same Tree: Conversations on the Integration of Arts, Humanities, and STEM in Higher Education.”



Meeting of the Commission

January 16–17, 2020
Los Angeles Athletic Club
Los Angeles, CA

The third Commission meeting focused on project visioning and strategy planning. Four local facilitators with deep experience in the arts and cultural sector as well as project design and implementation worked with each of the working groups to develop focused products and preliminary workplans. As a full group, the Commissioners discussed

connections among the working groups, outreach strategies, and potential policy recommendations. In addition to project development, the meeting also included an evening reception celebrating the arts in Los Angeles, featuring Mayor Eric Garcetti and Vijay Gupta.

MEETING CHAIRS

John Lithgow
Actor and Author

Natasha Trethewey
Northwestern University

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

SPEAKERS

Eric Garcetti
City of Los Angeles

Vijay Gupta
Street Symphony

Commission Cochair **John Lithgow** (Actor and Author) describes the work of the Commission on the Arts at a Los Angeles reception connected to the Commission's meeting on January 16–17, 2020.



PROJECT The Humanities Indicators

The Humanities Indicators provide information about all aspects of the humanities: ranging from early childhood reading, through undergraduate and graduate education in the humanities, and on to employment and experiences later in life with museums and other humanistic activities. Now in its eleventh year as a publicly available website, the project tracks the condition of the humanities enterprise via its own

rigorous survey research and analyses of data gathered by the federal government. Recent work has included national surveys of humanities departments at four-year colleges and universities, as well as a survey of over five thousand Americans about their engagement with and attitudes about a variety of humanities activities. The Humanities Indicators are accessible at www.amacad.org/humanities-indicators.

PROJECT DIRECTOR

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NORC at the University of Chicago

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University of Richmond

Jack Buckley
American Institutes for Research

Jonathan R. Cole
Columbia University

John Dichtl
American Association for State and Local History

Michael Hout
New York University

Felice J. Levine
American Educational Research Association

Esther Mackintosh
Federation of State Humanities Councils

Anne Ruggles Gere
University of Michigan

Judith Tanur
Stony Brook University

Steven Wheatley
American Council of Learned Societies, emeritus

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Tania Munz

Robert B. Townsend

FUNDER

Andrew W. Mellon Foundation

AMERICA'S NATIVE LANGUAGES

The United States has always been a land of many languages, with over 300 languages spoken across the continent. At a time when 200 million people speak English as a second language, it is important to preserve the rich linguistic heritage of the United States. The National Native Language Acquisition Research Center (NNLC) is a leading center for research on the acquisition and teaching of Native American languages.

KEY FACTS

- The U.S. Census reports that 100+ Native American languages are still spoken in the United States.
- Only around 20 will remain by 2050.
- Most languages are critically endangered, with only 400-500 people, with only 10 spoken by nearly half the speaker.

THE VALUE OF HISTORY

As a national history in the early 1980s, Americans expressed their interest in the past through the National History Day program. The program encourages students to explore the past through research, writing, and public speaking. The program has been successful in promoting historical literacy and civic engagement among young people.

KEY FACTS

- In 2011, 24% of American adults reported visiting a historic site in the previous year.
- As people age, they are less likely to visit a historic site.
- The amount of historic site visits rose over the last decade to over 20%.

THE VALUE OF READING

Reading creates rich, interconnected worlds of ideas and experiences. It is a powerful tool for learning and discovery. The National Center for Education Statistics (NCES) reports that reading is a key skill for success in the 21st century.

KEY FACTS

- More than 90% of Americans read a book in the last year.
- Reading is a key skill for success in the 21st century.
- The amount of time spent reading has increased over the last decade.

THE HUMANITIES IN OUR LIVES

The Humanities in Our Lives project is a national survey that tracks the condition of the humanities enterprise. It provides information about all aspects of the humanities, from early childhood reading to employment and experiences later in life with museums and other humanistic activities.

KEY FACTS

- The project tracks the condition of the humanities enterprise.
- It provides information about all aspects of the humanities.
- The project is a national survey that tracks the condition of the humanities enterprise.

READING TO YOUNG CHILDREN

From Dr. Seuss to The Very Hungry Caterpillar, books have been a part of young children's lives since they were born. Reading to young children is one of the best ways to help them learn to read and to love books. The National Center for Education Statistics (NCES) reports that reading to young children is a key skill for success in the 21st century.

KEY FACTS

- 80% of children aged 0-5 are read to by their parents.
- Reading to young children is a key skill for success in the 21st century.
- The amount of time spent reading to young children has increased over the last decade.

THE VALUE OF READING

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- The project is a national survey that tracks the condition of the humanities enterprise.

HISTORIC SITES IN THE U.S.

Americans often think about themselves through their family history and their own personal connection to the past. The National Center for Education Statistics (NCES) reports that visiting historic sites is a key skill for success in the 21st century.

KEY FACTS

- In 2011, 24% of American adults reported visiting a historic site in the previous year.
- As people age, they are less likely to visit a historic site.
- The amount of historic site visits rose over the last decade to over 20%.

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KEY FACTS

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- It provides information about all aspects of the humanities.
- The project is a national survey that tracks the condition of the humanities enterprise.

READING FOR PLEASURE

Reading creates rich, interconnected worlds of ideas and experiences. It is a powerful tool for learning and discovery. The National Center for Education Statistics (NCES) reports that reading is a key skill for success in the 21st century.

KEY FACTS

- More than 90% of Americans read a book in the last year.
- Reading is a key skill for success in the 21st century.
- The amount of time spent reading has increased over the last decade.

THE VALUE OF READING

Reading creates rich, interconnected worlds of ideas and experiences. It is a powerful tool for learning and discovery. The National Center for Education Statistics (NCES) reports that reading is a key skill for success in the 21st century.

KEY FACTS

- More than 90% of Americans read a book in the last year.
- Reading is a key skill for success in the 21st century.
- The amount of time spent reading has increased over the last decade.

THE HUMANITIES IN OUR LIVES

The Humanities in Our Lives project is a national survey that tracks the condition of the humanities enterprise. It provides information about all aspects of the humanities, from early childhood reading to employment and experiences later in life with museums and other humanistic activities.

KEY FACTS

- The project tracks the condition of the humanities enterprise.
- It provides information about all aspects of the humanities.
- The project is a national survey that tracks the condition of the humanities enterprise.

WHERE DO HUMANITIES MAJORS FIND WORK?

With over 7,000,000 humanities majors in the U.S. workforce, they can be found in every occupation. (Each percentage is the share of all employed humanities graduates who work in a given type of job.)

10%



SALES
108,000 Sales Supervisors

8%



BUSINESS & FINANCE
100,000 Management Analysts
83,000 Human Resource Workers

5%



SERVICE WORKERS
8,529 Chefs

5%



MEDICAL & HEALTHCARE
68,000 Physicians & Surgeons

18%



TEACHING, MUSEUM & LIBRARY
335,000 Postsecondary Teachers
642,000 Precollegiate Teachers

7%



VISUAL ARTS, WRITING & PERFORMANCE
172,000 Writers & Editors

4%



COMMUNITY & SOCIAL SERVICE
155,000 Counselors & Social Workers

16%



MANAGEMENT
135,000 Education Administrators
129,000 Marketing & Sales Managers
107,000 CEOs & Legislators

6%



LEGAL
350,000 Lawyers, Judges & Magistrates

1%



PROTECTIVE SERVICES
29,000 Police Officers

10%



OFFICE WORKERS
158,000 Secretaries & Administrative Assistants

5%



COMPUTER, ENGINEERING & SCIENCE
53,000 Software Developers

5%



OTHER
(including Military)

Source: 2015 American Community Survey, U.S. Census Bureau

For more on humanities majors' occupations, earnings, and job satisfaction, visit humanitiesindicators.org.

The Humanities Indicators are made possible by:

THE ANDREW W. MELLON FOUNDATION

AMERICAN ACADEMY OF ARTS & SCIENCES

PROJECT MEETINGS

Andrew W. Mellon Foundation Community College – Research University Partnerships Meeting

July 31, 2019
 Case Western University
 Cleveland, OH

Codirector Robert B. Townsend presented a report on “The Role of Honors Programs at Community Colleges.”

Department Survey Consultation

October 21, 2019
 American Sociological Association
 Washington, D.C.

Following the successful completion of a national survey of humanities departments in four-year colleges and universities, the Indicators staff assembled representatives

from each of the scholarly societies represented in the study to preview the findings and discuss possible lines of analysis and presentation.

PARTICIPANTS

- | | | | |
|---|---|--|---|
| Norman M. Bradburn
<i>NORC at the University of Chicago</i> | Daniel Ginsberg
<i>American Anthropological Association</i> | Trevor Parry-Giles
<i>National Communication Association</i> | Camilla Sommers
<i>Andrew W. Mellon Foundation</i> |
| Helen Cullyer
<i>Society for Classical Studies</i> | James Grossman
<i>American Historical Association</i> | Anne Marie Porter
<i>American Institute of Physics</i> | Robert B. Townsend
<i>American Academy of Arts and Sciences</i> |
| Amy Ferrer
<i>American Philosophical Association</i> | Deborah Kimmey
<i>American Studies Association</i> | David Raizman
<i>College Art Association</i> | Susan White
<i>American Institute of Physics</i> |
| Carolyn Fuqua
<i>American Academy of Arts and Sciences</i> | Deana Lewis
<i>National Women’s Studies Association</i> | Alyson Reed
<i>Linguistic Society of America</i> | Carla Zecher
<i>American Musicological Society</i> |
| | Dennis Looney
<i>Modern Language Association</i> | James Shulman
<i>American Council of Learned Societies</i> | |

National Humanities Conference

November 7–9, 2019
The Hilton Hawaiian Village
Honolulu, HI

Codirector Robert B. Townsend participated in a series of conversations about the health of the humanities.

International Humanities Summit

November 11–13, 2019
Queensland University of Technology
Brisbane, Australia

At an international convening hosted by the Australian Academy for the Humanities, Codirector Robert B. Townsend delivered a presentation on “Asking the Public about the Humanities” and participated in a series of conversations about the health of the field in the United States and overseas.

Advisory Committee Meeting

March 6, 2020
Virtual Meeting

At the annual meeting of the Humanities Indicators Advisory Committee the participants reviewed the results of

PARTICIPANTS

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

Edward Ayers
University of Richmond

Jonathan R. Cole
Columbia University

John Dichtl
*American Association for
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Carolyn Fuqua
*American Academy of
Arts and Sciences*

Michael Hout
New York University

American Historical Association Annual Meeting

January 4, 2020
Sheraton New York Times Square Hotel
New York, NY

At a convening of scholarly societies in the humanities and social sciences, Codirector Robert B. Townsend delivered a presentation on “What We Know about Contingent Faculty” and participated in a discussion about the evolving academic workforce.

National Humanities Alliance Annual Meeting

March 2, 2020
Washington Court Hotel
Washington, D.C.

The staff of the Humanities Indicators project presented preliminary findings from a large national survey of the general public about the humanities and hosted an exhibit booth, where they distributed materials and answered questions.

the two national surveys conducted by the project and assessed plans for future publications and research.

Felice J. Levine
*American Educational
Research Association*

Esther Mackintosh
*Federation of State
Humanities Councils*

Tania Munz
*American Academy of
Arts and Sciences*

Judith Tanur
Stony Brook University

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

Steven Wheatley
*American Council of
Learned Societies*

Public Survey Consultation I

March 24, 2020
Virtual Meeting

Working with NORC at the University of Chicago, in fall 2019 the Humanities Indicators conducted a nationally representative survey of five thousand American adults about public attitudes about the humanities and their engagement with a variety of humanistic practices. In spring

2020, the project staff conducted a series of consultations with stakeholders to assess which findings seemed of significance, and how the results might be reported to maximize their utility for every constituency.

PARTICIPANTS

Carin Berkowitz
New Jersey Humanities Council

Norman M. Bradburn
NORC at the University of Chicago

Alison Chang
College Art Association

Carolyn Fuqua
American Academy of Arts and Sciences

John Garnett
American Academy of Arts and Sciences

Michael Hout
New York University

Paula Krebs
Modern Language Association

Dennis Looney
Modern Language Association

Tania Munz
American Academy of Arts and Sciences

Susan Ogger
New York Humanities

Valerie Paley
New York Historical Society

James Pawelski
University of Pennsylvania

Jason Rhody
Social Science Research Council

Camilla Somers
Andrew W. Mellon Foundation

Elizabeth Spent
Andrew W. Mellon Foundation

Judith Tanur
Stony Brook University

Robert B. Townsend
American Academy of Arts and Sciences

Public Survey Consultation II

April 6, 2020 (morning)
Virtual Meeting

PARTICIPANTS

Catherine Allgor
Massachusetts Historical Society

Norman Bradburn
NORC at the University of Chicago

Christina Chia
John Hope Franklin Humanities Institute

Sarah Dreller
Society for Architectural Historians

Carolyn Fuqua
American Academy of Arts and Sciences

John Garnett
American Academy of Arts and Sciences

James Grossman
American Historical Association

Christine Henseler
Union College

Steven Kidd
National Humanities Alliance

James Kitterman
Maryland Humanities

Gavin Kleespies
Massachusetts Historical Society

Modupe Labode
Smithsonian Institution

Lori Lefkowitz
Northeastern University

Esther Mackintosh
Federation of State Humanities Councils

David Oxtoby
American Academy of Arts and Sciences

Lynn Pasquarella
Association of American Colleges and Universities

Robert B. Townsend
American Academy of Arts and Sciences

Public Survey Consultation III

April 6, 2020 (afternoon)
Virtual Meeting

PARTICIPANTS

Norman Bradburn
NORC at the University of Chicago

Nicholas Allen
University of Georgia

Yota Batsaki
Dumbarton Oaks

John Dichtl
American Association of State and Local History

Jessica Feldman
Andrew W. Mellon Foundation

Amy Ferrer
American Philosophical Association

Carolyn Fuqua
American Academy of Arts and Sciences

John Garnett
American Academy of Arts and Sciences

Dianne Harris
Andrew W. Mellon Foundation

Cecily Hill
National Humanities Alliance

Barbara Mennel
University of Florida

Tania Munz
American Academy of Arts and Sciences

Bill Rivers
Joint National Committee for Languages; National Council for Languages and International Studies

Dana Schaffer
American Historical Association

Robert B. Townsend
American Academy of Arts and Sciences

Eric Waggoner
West Virginia Humanities Council

Ann Wise
Phi Beta Kappa

Public Survey Consultation IV

April 13, 2020 (morning)
Virtual Meeting

PARTICIPANTS

Norman Bradburn
NORC at the University of Chicago

Vyta Baselice
Federation of State Humanities Councils

Kristen Boudreau
Worcester Polytechnic Institute

Brian Boyles
Massachusetts Humanities

Kim Gilmore
History Channel

Carolyn Fuqua
American Academy of Arts and Sciences

John Garnett
American Academy of Arts and Sciences

Bea Gurwitz
National Humanities Alliance

David Kidd
Democratic Knowledge Project

Jess Miner
Edmond J. Safra Center for Ethics, Harvard University

Scott Muir
National Humanities Alliance

Melissa Nobles
Massachusetts Institute of Technology

Koby Oppenheim
Andrew W. Mellon Foundation

David Oxtoby
American Academy of Arts and Sciences

Daniel Reid
Whiting Foundation

Miranda Restovic
Louisiana Endowment for the Humanities

Peter Robinson
American Academy of Arts and Sciences

Susan Smulyan
Brown Center for Public Humanities

Robert B. Townsend
American Academy of Arts and Sciences

Public Survey Consultation V

April 13, 2020 (afternoon)
Virtual Meeting

PARTICIPANTS

Norman Bradburn
NORC at the University of Chicago

Ellen Dunlap
American Antiquarian Society

Daniel Fisher
National Humanities Alliance

Maryrose Flanigan
azru

Carolyn Fuqua
American Academy of Arts and Sciences

John Garnett
American Academy of Arts and Sciences

Matthew Gibson
Virginia Federation for the Humanities

Sara Guyer
University of Wisconsin

Sunil Iyengar
National Endowment for the Arts

Heather Kim
Andrew W. Mellon Foundation

Teresa Mangum
Obermann Center, University of Iowa

Allentza Michel
American Academy of Arts and Sciences

Tania Munz
American Academy of Arts and Sciences

Diane O'Donoghue
Jonathan M. Tisch College of Civic Life

Younger Oliver
National Humanities Alliance

Shannon Smith
Wyoming Humanities Council

Robert B. Townsend
American Academy of Arts and Sciences

THE VALUE OF ART HISTORY

An history is increasingly being used in the field of medicine. Spoken words from medical school classes that include an art history component help students diagnose patients. In the past, it was only used to solve complex problems with patients. Now, it's being used to solve complex problems with patients. It's being used to solve complex problems with patients. It's being used to solve complex problems with patients.

ART HISTORY

Survey in the 1970s and 1980s found that art history courses were among the 30 most popular courses of liberal arts colleges and universities. But they suffered a significant decline since the 1990s. Today, art history is an emerging field to use digital technology to enhance teaching and research, with many courses coming from outside academia.

KEY FACTS

- In 2016, over 20% of U.S. adults have learned about or taken a course in art appreciation or art history.
- In 2016, 6,200 students received bachelor's degrees in art history, history and criticism.

Share of 24-Year Olds Reporting They Took Art History at Their Educational Levels

Level	Share (%)
High School	10%
College	25%
Postgraduate	15%

HUMANITIES INDICATORS

THE VALUE OF THE HUMANITIES ONLINE

Digital humanities data indicates to our partners they might enhance their, and make the humanities more available to the public, and to new audiences. The data indicates that digital humanities data indicates to our partners they might enhance their, and make the humanities more available to the public, and to new audiences.

DIGITAL HUMANITIES

The information revolution has long been perceived as a boon for business, science, and technology, but it has also had a profound effect on the humanities. Digital humanities has been perceived as a boon for business, science, and technology, but it has also had a profound effect on the humanities.

INNOVATIVE PROGRAMS

Over 70 centers across the country foster research and projects focused on digital humanities. Over 70 centers across the country foster research and projects focused on digital humanities.

KEY FACTS

- Over 70 centers across the country foster research and projects focused on digital humanities.
- A 2015 survey found that a third of colleges offered at least one digital course, and one in six offered an online course.

Share of Humanities Departments Engaged with Digital Humanities Activity by Campus Type

Campus Type	Engaged (%)
Research-Intensive	45%
Regional Comprehensive	35%
Liberal Arts	25%

HUMANITIES INDICATORS

THE VALUE OF HUMANITIES TOURISM

Humanities tourism and recreation can be important drivers of economic growth. In 2017, the 100 largest museums generated \$1.5 billion in revenue, and 100 largest museums generated \$1.5 billion in revenue.

HUMANITIES TOURISM

In 2017, tourism contributed \$200 billion directly and over \$1.5 billion indirectly to U.S. GDP. This made the U.S. the global leader in total gains from tourism. While the U.S. has a long history of tourism, it is now becoming a more important part of many people's lives.

INNOVATIVE PROGRAMS

Over 100 museums and cultural institutions are using digital technology to enhance teaching and research, with many courses coming from outside academia.

KEY FACTS

- In 2017, tourism contributed \$200 billion directly and over \$1.5 billion indirectly to U.S. GDP.
- In 2017, 100 largest museums generated \$1.5 billion in revenue.

Contribution of Travel & Tourism to U.S. GDP

Year	Direct Contribution (%)	Indirect Contribution (%)
2017	4.5%	15.5%
2016	4.5%	15.5%
2015	4.5%	15.5%

HUMANITIES INDICATORS

THE VALUE OF PUBLIC HUMANITIES

Public humanities programs are emerging as a critical area of education within the humanities. One of the earliest examples of public humanities programs is the Center for Public Humanities and Cultural Heritage at Brown University.

PUBLIC HUMANITIES

The Humanities have been increasingly linked to the public sphere since the Renaissance, when humanists embraced the idea of the public sphere and the public sphere.

INNOVATIVE PROGRAMS

Over 100 museums and cultural institutions are using digital technology to enhance teaching and research, with many courses coming from outside academia.

KEY FACTS


- In 2015, NEH provided \$1 billion to create humanities centers.
- NEH awarded \$1 million in grants to 48 projects in the public humanities in 2015.

Distribution of NEH Public Humanities Funding by State

State	Percentage (%)
California	15.0%
New York	12.0%
Illinois	10.0%
Florida	8.0%
Texas	7.0%

HUMANITIES INDICATORS

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; strengthening U.S. participation in international scientific collaboration; and climate change policy.

PROGRAM ADVISORY COMMITTEE

CHAIRS

Alan Leshner
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Geraldine L. Richmond
University of Oregon

MEMBERS

Nancy C. Andrews
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School of Medicine

Mary Beckerle
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Arthur Bienenstock
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Emery Brown
Massachusetts Institute
of Technology;
Harvard Medical School;
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Claude Canizares
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of Technology

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
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 have included published work on 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 third and final project report of the initiative, entitled *The Public Face of Science in America: Priorities for the Future*, presents a series of proposed policy recommendations for target audiences to improve the practice of science communication and engagement. This report was informed by the findings of the earlier publications of the initiative, *Perceptions of Science in America* and *Encountering Science in America*, which aggregated data both on how Americans view the role of science in society and how they interact with science in their everyday lives.

PROJECT CHAIR

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

STEERING GROUP
MEMBERS

Emilio Bizzi
Massachusetts Institute
of Technology

Geoffrey Cowan
University of Southern
California

Ellen Futter
American Museum
of Natural History

Sylvester James Gates, Jr.
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Robert Hauser
American Philosophical
Society

Rush D. Holt, Jr.
formerly, American
Association for the
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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

CONTINUED The Public Face of Science

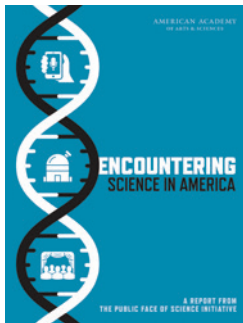
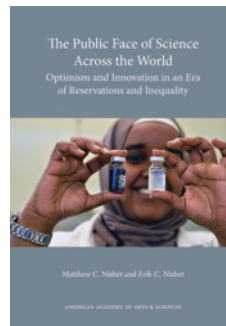
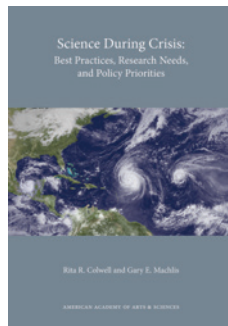
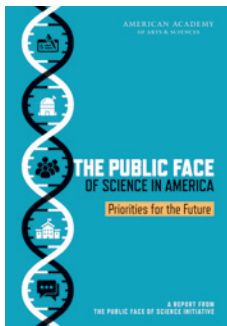
PROJECT STAFF

Erica Kimmerling
Tania Munz
John Randell
Rebecca Tiernan
Amanda Vernon

FUNDERS

*Gordon and Betty Moore
Foundation*
Rita Allen Foundation
Alfred P. Sloan Foundation

PROJECT PUBLICATIONS



The Public Face of Science in America: Priorities for the Future

(American Academy of Arts and Sciences, 2020)

Science During Crisis: Best Practices, Research Needs, and Policy Priorities

Rita R. Corwell and Gary E. Machlis (American Academy of Arts and Sciences, 2019)

The Public Face of Science Across the World

Matthew C. Nisbet and Erik C. Nisbet (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 MEETING

Science During Crisis: Panel Presentation at the Annual Meeting of the American Association for the Advancement of Science

February 14, 2020
 Washington State Convention Center
 Seattle, WA

Science During Crisis authors Rita Colwell (University of Maryland) and Gary Machlis (Clemson University) discussed the importance of science in crisis responses ranging from pandemics to environmental disasters to national security threats. Amanda Vernon (American Academy

of Arts and Sciences) spoke about international collaboration within the use of science during crisis. Sandi Doughton, the panel discussant, built upon these presentations by drawing connections to her experience reporting on the role of science in disaster situations with the *Seattle Times*.

SPEAKERS

Gary E. Machlis
 Clemson University

Amanda Vernon
 American Academy of
 Arts and Sciences

Rita R. Colwell
 University of Maryland

DISCUSSANT

Sandi Doughton
 Seattle Times

MODERATOR

John C. Randell
 formerly, American Academy
 of Arts and Sciences

(from left to right): **Amanda Vernon** (American Academy of Arts and Sciences), **Rita Colwell** (University of Maryland), **Gary Machlis** (Clemson University), **Sandi Doughton** (*Seattle Times*), and **John Randell** (formerly, American Academy of Arts and Sciences)



PROJECT Challenges for International Scientific Partnerships

The Academy study on Challenges for International Scientific Partnerships (CISP) examines impediments to collaborations between scientific researchers of all scales and identifies potential policy changes and best practices that could make the United States a better partner in international science partnerships. With guidance from its Steering Committee, the project pursues two major streams of work.

First, a working group on Large-Scale Science approaches international collaborations through the lens of issues particular to large-scale collaborations and not peer-to-peer or small-scale international work. This group has been tasked with exploring how the United States can enhance their role in these partnerships, both in physical facilities (e.g., the European Organization for Nuclear Research, or CERN) and distributed networks (e.g., the Human Cell Atlas). This group is developing a series of best practices and

fundamental principles for these types of collaborations and will aim to articulate these to U.S. government agencies and congressional branches through a forthcoming report to better position the United States as a meaningful and engaged partner.

Through advice from the Steering Committee, the project has sought a second stream of work on U.S. collaborations with Emerging Science Partners (ESPs). This working group is exploring issues particular to U.S. scientific collaborations, at all scales, with countries seeking to boost their scientific capacity, particularly those with limited resources to do so. The group prioritizes identifying and examining difficult issues facing resource-limited researchers, such as the challenges facing women researchers in the developing world, and will articulate a series of recommendations to aid in strengthening collaborations and making them more mutually beneficial.

PROJECT CHAIRS

Arthur Bienenstock
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Stanford University

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Venkatesh Narayanamurti
Harvard University

Claude R. Canizares
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of Technology

Bill Colglazier
American Association for the
Advancement of Science

EMERGING SCIENCE PARTNERS WORKING GROUP

Shirley Malcom, Cochair
American Association for the
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STEERING COMMITTEE

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Indiana University
Maurer School of Law

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Shirley Malcom
American Association for the
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Olufunmilayo Olopade
University of Chicago
Medicine

Geraldine Richmond
University of Oregon

Vaughan Turekian
National Academies of
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Medicine

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Ohio State University

Inez Fung
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Michael Holland
University of Pittsburgh

Kaye Husbands Fealing
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James W. Curran
Emory University

Ali Douraghy
Lawrence Berkeley National
Laboratory

Nina Dudnik
Seeding Labs

LARGE-SCALE SCIENCE WORKING GROUP

Arthur Bienenstock,
Cochair
Stanford University

Peter Michelson, Cochair
Stanford University

CONTINUED Challenges for International Scientific Partnerships

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*The World Academy
of Sciences*

John Hildebrand
University of Arizona

Nkem Khumbah
University of Michigan

Peter Michelson, ex officio
Stanford University

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

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

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Rebecca Tiernan

Kathleen Torgesen

Amanda Vernon

FUNDERS

*Gordon and Betty Moore
Foundation*

*William and Flora Hewlett
Foundation*

Alfred P. Sloan Foundation

PROJECT MEETINGS

**Large-Scale Science Working Group
Workshop**

July 29–30, 2019
Sofitel Hotel
Washington, D.C.

The Large-Scale Science Working Group convened a two-day meeting to workshop a series of proposed recommendations. The participants included members of the Steering Committee and Large-Scale Science Working Group as well as other key policy experts in this space. The discussions helped to inform the committee’s decision to publish a case statement for international scientific partnerships as well as a focused report on large-scale scientific collaboration.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

**Large-Scale Science Working Group
Meeting**

October 21, 2019
Kimpton Hotel George
Washington, D.C.

The Large-Scale Science Working Group met to discuss progress made since its last convening in July. The meeting included an in-depth discussion of a case statement and the utilization of a series of case studies on various international scientific collaborations. In addition, the members discussed the principles that should be included and supported in the committee’s report for beginning and managing collaborations of this scale, both at large-scale facilities and in distributed networks.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

Emerging Science Partners Working Group Meeting

October 30, 2019
Hilton Chicago O'Hare Airport
Chicago, IL

Members of the Emerging Science Partners Working Group convened for a one-day workshop to finalize a work plan for consultations with scientists and policy-makers across the world. Through a series of teleconferences in the months prior to the meeting, the group began to develop a series of recommendations for targeted audiences to improve collaborations between the United States and emerging science partners and used this meeting to workshop these recommendations further.

MEETING CHAIRS

Shirley Malcom
*American Association for the
Advancement of Science*

Olufunmilayo Olopade
*University of Chicago
Medicine*

Shirley Malcom (American Association for the Advancement of Science), cochair of the Emerging Science Partners Working Group, described the project and moderated a discussion with participants on their experiences, both negative and positive, of collaborating with scientists in the United States.

Annual Meeting of African Science Academies

November 14–17, 2019
Accra, Ghana

At the Fifteenth Annual Meeting of African Science Academies (AMASA-15), hosted by the Ghana Academy of Arts & Sciences, the American Academy, in close collaboration with the Network of African Science Academies (NASAC), participated in two sessions. The first session asked participants to discuss the challenges and successes they have faced in collaborations with the United States. The second session workshopped several recommendations generated by the Emerging Science Partners Working Group. The feedback informed revisions to the recommendations, as well as the addition of new recommendations for the group to consider.

In addition to attending AMASA, the Academy held a series of meetings with scientists, policy-makers, and leaders of science organizations located in Accra – such as the West African Centre for Cell Biology of Infectious Pathogens, the African Institute for Mathematical Sciences, the Association of African Universities, and the Google AI Lab – to discuss the project further.





Emerging Science Partners Working Group Cochair **Olufunmilayo Olopade** (center) and project staff visited the West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), located at the University of Ghana, to discuss the challenges and opportunities of partnerships between WACCBIP researchers and U.S. scientific collaborators.

Emerging Science Partners Working Group: Meeting with Government-Led Partnerships Programs

January 16–17, 2020
British Academy
London, United Kingdom

The Emerging Science Partners Working Group convened a small group of participants from key development funding agencies to discuss best practices for science funding programs with countries in the developing world. These discussions ranged from best practices for program design

and development, to program management, to elevating and supporting additional opportunities for funded programs and scientists. The insights gained from the meeting will inform the forthcoming report of the working group.

MEETING CHAIRS

Peter Michelson
Stanford University

Shirley Malcom
*American Association for the
Advancement of Science*

Virtual Soundings for Emerging Science Partners Working Group

March, April, and May 2020
Virtual Meetings

The COVID-19 pandemic directly impacted the CISP project in numerous ways. A planned series of soundings in Nairobi, Kenya, Singapore, and Bogota, Colombia were shifted to virtual formats. Participants from countries around the world joined the project cochairs and working

group members for a series of virtual meetings to discuss the project’s initial recommendations and identify ways to build and foster collaborations between the United States and emerging science partners.

MEETING CHAIRS

Arthur Bienenstock
Stanford University

Peter Michelson
Stanford University

Shirley Malcom
*American Association for the
Advancement of Science*

Olufunmilayo Olopade
*University of Chicago
Medicine*

PROJECT New Models for U.S. Science and Technology

This project assembled recognized leaders from all sectors of science, engineering, and technology to recommend policy actions to help ensure the long-term sustainability of the U.S. science and engineering research enterprise. Scientific and technological advances are fundamental to the prosperity, health, and security of America. Innovation and rapid integration of new knowledge and technologies emerge from investments in research and development and rely on the partnerships between universities, federal and state governments, and industry. Staying globally competitive will require a stronger partnership and a greater focus on long-term planning in scientific and engineering research.

PROJECT CHAIRS

Norman R. Augustine
Lockheed Martin Corporation, ret.

Neal Lane
Rice University

PROJECT MEMBERS

Nancy C. Andrews
Duke University School of Medicine

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

Thomas R. Cech
University of Colorado Boulder

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

Jared Cohon
Carnegie Mellon University

James J. Duderstadt
University of Michigan

Mark C. Fishman
Harvard University

Sylvester James Gates, Jr.
Brown University

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

M.R.C. Greenwood
University of Hawaii

John L. Hennessy
Alphabet, Inc.; Stanford University

Charles O. Holliday, Jr.
Royal Dutch Shell plc

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

The *Restoring the Foundation* report, published in 2014, offers actionable recommendations for the long-term sustainability of the U.S. science and engineering research system to ensure a healthy research enterprise that continues to benefit the American people. An update to the report, *The Perils of Complacency: America at a Tipping Point in Science & Engineering*, reaffirms the importance of science and engineering for the United States, especially in the context of China's rise as a science and technology powerhouse.

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

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

Venkatesh "Venky" Narayanamurti
Harvard University

Maxine L. Savitz
Honeywell, Inc., ret.

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

Subra Suresh
Nanyang Technological University

Shirley M. Tilghman
Princeton University

Jeannette M. Wing
Columbia University

Elias Zerhouni
formerly Sanofi; formerly, National Institutes of Health; formerly, Johns Hopkins University School of Medicine

PROJECT STAFF

Tania Munz

John Randell

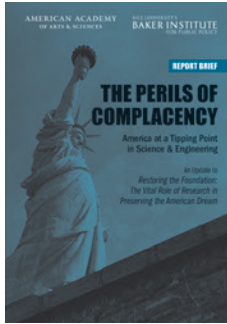
Amanda Vernon

FUNDERS

Bryson Science Fund

Hellman Fellow's Fund

PROJECT PUBLICATIONS



The Perils of Complacency: America at a Tipping Point in Science & Engineering

(American Academy of Arts and Sciences and Rice University's Baker Institute for Public Policy, 2020)

Restoring the Foundation: The Vital Role of Research in Preserving the American Dream

(American Academy of Arts and Sciences, 2014)

PROJECT Climate Change

The Academy seeks to launch a new Science, Engineering, and Technology initiative to focus on the current climate change situation facing our global society. The scientific consensus is clear: climate change is upon us, and its impacts will be devastating and increasingly difficult to prevent and address if we do not take action now. With such strong scientific backing across the international scientific community, what has prevented meaningful action?

The project will be developed around two key ideas, informed through a series of discussions held in the past year: 1) targeting U.S. audiences at various levels and 2)

involving nontraditional disciplines in the project work, including social scientists, artists, and humanists. The initiative will seek to further understanding of the barriers that prevent effective and collective action and propose strategies for how to overcome these barriers in order to make progress on moving productive conversations forward. It will also identify potential policies to propose to relevant U.S.-focused audiences to encourage the implementation of essential adaptation and mitigation strategies to build resiliency and prepare communities, especially those currently on the frontlines, for the inevitable climate future.

PROJECT STAFF

Tania Munz

Kathleen Torgesen

Rebecca Tiernan

Amanda Vernon

PROJECT MEETING

Virtual Convening on Climate Change

May 4, 2020

Virtual Meeting

The Academy hosted a virtual meeting with a small group of experts from a range of disciplines to discuss a potential work plan and the desired impact of a climate initiative. Based on perspectives and ideas collected through a

variety of consultations in the months prior to the meeting, the participants discussed the problem statement the initiative should address and how this work could most effectively proceed.

MEETING CHAIRS

Christopher Field
Stanford University

David Oxtoby
American Academy of
Arts and Sciences

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.

† *Deceased*

RECENT EXPLORATORY MEETINGS

Young Adult Mental Health and Well-Being: Higher Education's Responsibility

September 5–6, 2019
House of the Academy
Cambridge, MA

On the campuses of residential colleges and universities, young adults (eighteen to twenty-five years old) are experiencing an intensifying crisis of their mental health and well-being. Students have increasing levels of depression and anxiety, which interfere with and may interrupt both their academic and developmental progress. This

gathering of university presidents and mental health leaders explored the roles colleges and universities have in creating campus cultures that foster student mental health and well-being; deepened understanding of how recent research can inform this work; and identified pathways forward.

MEETING CHAIRS

John DeGioia
Georgetown University

David Oxtoby
American Academy of Arts and Sciences

FEATURED SPEAKERS & PARTICIPANTS

Paul Barreira
*Harvard Medical School;
formerly, Harvard University
Health Services*

Daniel Eisenberg
*University of Michigan;
Healthy Minds Network*

Wendy Fischman
Harvard University

Wayne Frederick
Howard University

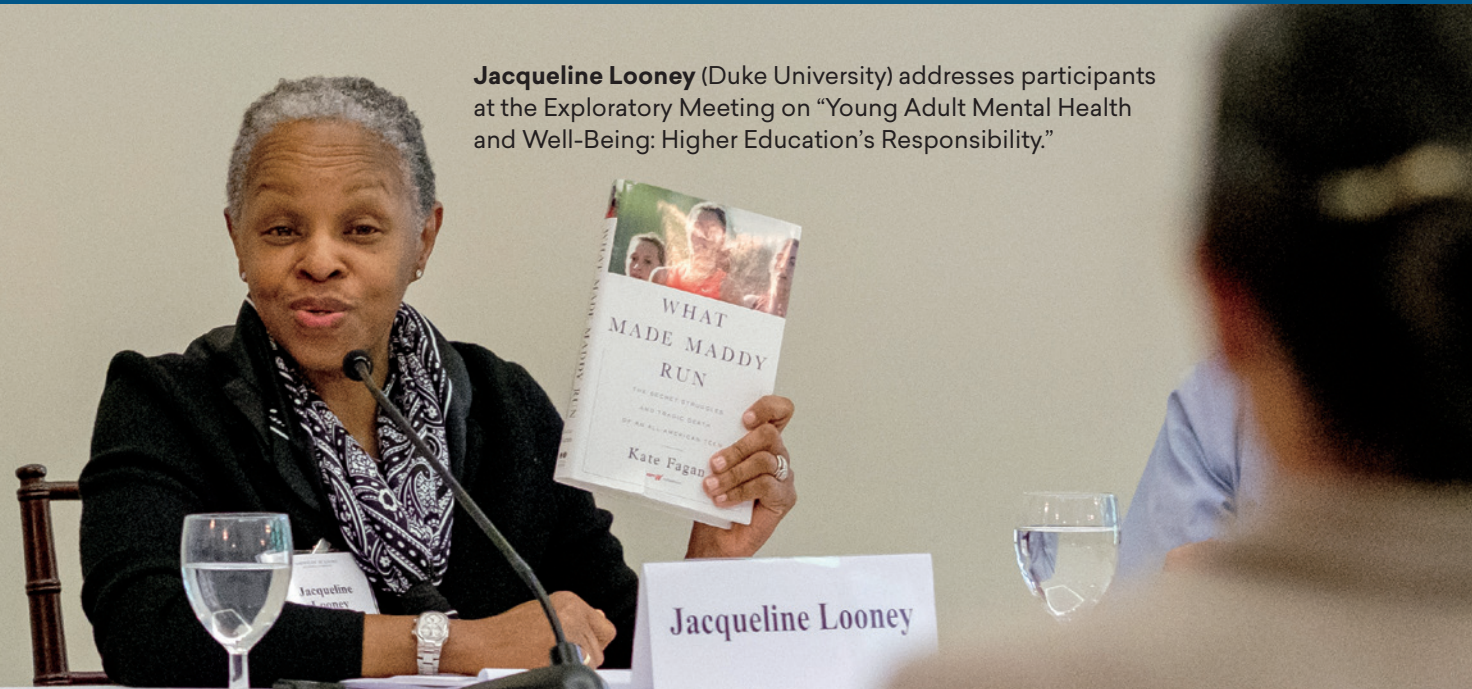
Elizabeth Gong-Guy
*University of California,
Los Angeles*

Laura Horne
Active Minds

Paula Johnson
Wellesley College

Sarah K. Lipson
*Boston University School
of Public Health*

Jacqueline Looney
Duke University



Jacqueline Looney (Duke University) addresses participants at the Exploratory Meeting on “Young Adult Mental Health and Well-Being: Higher Education’s Responsibility.”

CONTINUED Young Adult Mental Health and Well-Being: Higher Education’s Responsibility

Suzy Nelson
Massachusetts Institute of Technology

Stephanie Pinder-Amaker
McLean Hospital College Mental Health Program

Julie Reuben
Harvard Graduate School of Education

Chad Wellmon
University of Virginia

Vikram Patel
Harvard Medical School

Zoe Ragouzeos
NYU Student Mental Health

Stephanie Bell Rose
TIAA Institute

Protecting Communities in Social Science Studies: Toward New Ethics

November 7–8, 2019
House of the Academy
Cambridge, MA

This convening brought together researchers and administrators from universities, professional organizations, and institutional review boards. A series of open discussions allowed participants to share perspectives on some of the most pressing challenges to contemporary fieldwork in the

social sciences. The participants looked at how ethical issues related to large-scale studies have manifested themselves in a variety of fields and evaluated proposed guidelines meant to address these challenges.

MEETING CHAIR

Rose McDermott
Brown University

FEATURED SPEAKERS

Jay Lyall
Dartmouth College

David Oxtoby
American Academy of Arts and Sciences

Local Program Committees and Representatives

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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*formerly, Museum of
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Mriganka Sur
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Ryan Specialty Group;
World Sport Chicago

Shari Seidman Diamond
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Pritzker School of Law

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at Chicago

Diane Wood
United States Court of
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Art Collections, and Botanical
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Slate Magazine

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Perelman School of Medicine*

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San Diego School of Medicine*

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*Fred Hutchinson Cancer
Research Center;
University of Washington*

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University of Washington

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*Fred Hutchinson Cancer
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University of Washington

Marc Mangel
*University of California,
Santa Cruz*

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Thompson
University of Washington

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Akamai Technologies Inc.

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*Washington University
in St. Louis*

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*Washington University
in St. Louis*

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*Washington University
in St. Louis School of
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*The Pulitzer Foundation
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Missouri Botanical Garden

Robert E. Ricklefs
*University of Missouri
at St. Louis*

Larry Shapiro
*University Health Partners
of Hawaii*

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

Mark Stephen Wrighton
*Washington University
in St. Louis*

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**John Albert
Katzenellenbogen**
*University of Illinois
at Urbana-Champaign*

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Lockheed Martin Corporation

David G. Bradley
Atlantic Media

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*Association of American
Universities*

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Georgetown University

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*Carnegie Museums
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Alan I. Leshner
*American Association for the
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*Covington & Burling LLP;
formerly, Carnegie Institution
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National Gallery of Art

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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*

Patty Stonesifer
Martha's Table

Member Events, 2019–2020

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

BERKELEY

November 20, 2019
University of California, Berkeley

Morton L. Mandel Public Lecture **Arms Trafficking: Its Past, Present, and Future***

Featured Speakers: Brian Delay (University of California, Berkeley); Ron Hassner (University of California, Berkeley); Daniel Sargent (University of California, Berkeley); Priya Satia (Stanford University). *Moderator:* David Hollinger (University of California, Berkeley)

LOS ANGELES

November 17, 2019
J. Paul Getty Museum

Members Reception*

Featured Speaker: John Lithgow (Los Angeles, CA).
Introduction: James Cuno (J. Paul Getty Trust)

SAN DIEGO

August 20, 2019
University of California, San Diego

San Diego Program Committee Meeting*

November 5, 2019
University of California, San Diego

The Joy of Search*

Featured Speaker: Dan Russell (Google). *Moderator:* Donald Norman (University of California, San Diego).
Introduction: Geoff Wahl (Salk Institute for Biological Studies)

*Activity of a Local Program Committee or Representative

December 3, 2019
Salk Institute for Biological Studies

Solving Our Climate Crisis*

Featured Speaker: Al Gore (former Vice President of the United States). *Moderators:* Veerabhadran Ramanathan (University of California, San Diego); Elizabeth Simmons (University of California, San Diego)

February 6, 2020
University of California, San Diego

San Diego Program Committee Meeting*

SAN FRANCISCO

November 21, 2019
San Francisco, CA

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

STANFORD

December 2, 2019
Stanford University

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

Featured Speaker: Nathaniel Persily (Stanford Law School)

CONNECTICUT

NEW HAVEN

September 27, 2019
Yale University

One Interface of Fundamental Chemistry **Research with Pharma/Biotech Collaborations***

Featured Speaker: Scott Miller (Yale University). *Introduction:* Frances McCall Rosenbluth (Yale University)

November 7, 2019
Yale University

Fixing a Broken Global Order: Is it Too Late?*

Featured Speakers: Paul Kennedy (Yale University); Samuel Kortum (Yale University); Ian Shapiro (Yale University); Jing Tsu (Yale University); Arne Westad (Yale University). *Moderator:* Frances McCall Rosenbluth (Yale University)

DISTRICT OF COLUMBIA

WASHINGTON, D.C.

October 30, 2019
Association of American Universities

Satellite Discussion – Improving Teaching: Promoting Excellence in Undergraduate STEM Education

Featured Speakers: Sandy Baum (Urban Institute); Mary Sue Coleman (Association of American Universities); Michael S. McPherson (formerly, Spencer Foundation); Emily R. Miller (Association of American Universities); Tobin Smith (Association of American Universities)

ILLINOIS

CHICAGO

January 28, 2020
University of Chicago

University of Chicago Program Committee Meeting*

MASSACHUSETTS

CAMBRIDGE

September 20, 2019
House of the Academy

Social Reception for Members*

Featured Speaker: Naomi Oreskes (Harvard University)

October 11, 2019
House of the Academy

Meeting of Local Program Committee Chairs*

Meeting Chair: Steven Knapp (Carnegie Museums of Pittsburgh; formerly, George Washington University)

October 11, 2019
Cambridge, MA

A Celebration of the Arts and Humanities

Featured Speakers: Elizabeth Alexander (The Andrew W. Mellon Foundation); Patricia Barber (Chicago, IL); Mark Bradford (Art + Practice); Harry J. Elam, Jr. (Stanford University); Donald Margulies (Yale University)

October 12, 2019
Cambridge, MA

Induction Ceremony

Featured Speakers: Jo Handelsman (University of Wisconsin-Madison); Zeid Ra'ad Al Hussein (University of Pennsylvania); Sherrilyn Ifill (NAACP Legal Defense and Education Fund); Margaret D. Jacobs (University of Nebraska-Lincoln); Ellen Mosley-Thompson (Ohio State University); Lonnie G. Thompson (Ohio State University); Ronald Olson (Munger, Tolles & Olson); Jane Olson (Pacific Council on International Policy; Human Rights Watch)

October 13, 2019
House of the Academy

Annual David M. Rubenstein Lecture A Conversation with Anna Deavere Smith

Featured Speakers: Anna Deavere Smith (New York University Tish School for the Arts); David M. Rubenstein (The Carlyle Group)

October 30, 2019
House of the Academy

2019 Distinguished Morton L. Mandel Annual Public Lecture Improving Teaching: Strengthening the College Learning Experience

Featured Speakers: Sandy Baum (Urban Institute); Michael S. McPherson (formerly, Spencer Foundation)



David Oxtoby and Bruce Western



Joel Cohen, Dolores Root, and David Lewis



Patricia Barber, Donald Margulies, Elizabeth Alexander, and Harry Elam Jr.



William Moerner and Sharon Moerner



Annie Proulx and Shawn Wong



Margaret Beal Spencer (center) and guests



Marie Washington and **A. Eugene Washington**



Florence Peacock, **Brigid L.M. Hogan**, and **Nancy Andrews**



Anna Deavere Smith and **David Rubenstein**

CONTINUED Massachusetts

November 8, 2019
House of the Academy

The Age of Living Machines: How Biology Will Build the Next Technology

Featured Speaker: Susan Hockfield (Massachusetts Institute of Technology)

December 12, 2019
House of the Academy

Winter Concert: Music and the Nobel Peace Prize

Featured Performers: Lynn Chang (Violinist); Ariel Chapman (Violinist); Tai Kim (Pianist); Ha-eun Ryu (Violinist); Alan Toda-Ambraras (Cellist)

December 16, 2019
House of the Academy

Meeting of the Boston Biotech Working Group

Featured Speakers: Sangeeta Bhatia (Massachusetts Institute of Technology); Susan Hockfield (Massachusetts Institute of Technology); Nancy Hopkins (Massachusetts Institute of Technology)

February 19, 2020
House of the Academy

Criminal Justice as Social Justice

Featured Speaker: Bruce Western (Columbia University)

March 6, 2020
House of the Academy

“The Resisters” Book Talk

Featured Speaker: Gish Jen (Cambridge, MA)

MISSOURI

ST. LOUIS

August 27, 2019
Missouri History Museum

An Evening at the Missouri History Museum: Connecting Exhibits to Community*

Featured Speaker: Frances Levine (Missouri Historical Society). *Introduction:* Kenneth Ludmerer (Washington University in St. Louis)

NORTH CAROLINA

CHAPEL HILL

October 29, 2019
University of North Carolina at Chapel Hill

Reception to Welcome New Members in the Research Triangle*

Featured Speakers: David W. Oxtoby (American Academy of Arts and Sciences); Walt Wolfram (North Carolina State University). *Introduction:* Terry Magnusson (University of North Carolina at Chapel Hill); Paula McClain (Duke University)

DURHAM

December 20, 2019
Duke University

Research Triangle Program Committee Meeting*

NEW YORK

NEW YORK

October 30, 2019
Teachers College, Columbia University

Satellite Discussion—Improving Teaching: Academic Learning or Occupational Skill? A False Dichotomy

Featured Speakers: Thomas Bailey (Teachers College, Columbia University); Sandy Baum (Urban Institute); Clive Belfield (Queens College, City University of New York); Michael S. McPherson (formerly, Spencer Foundation)



Tai Kim, Ha-eun Ryu, Alan Toda-Ambraras, Ariel Chapman, and Lynn Chang



David Oxtoby, David Miliband, and Jonathan Fanton

Konstantinos E.D. Meghir, Xiaohong Chen, and Steven Wilkinson



Members and guests view a portrait of Manet by Henri Fantin-Latour at the J. Paul Getty Museum.

CONTINUED New York

February 4, 2020
New York, NY

New York Program Committee Meeting*

February 4, 2020
New York, NY

Jonathan F. Fanton Lecture The Global Refugee Crisis: What's Next and What Can Be Done?

Featured Speaker: David Miliband (International Rescue
Committee)

TEXAS

HOUSTON

September 10, 2019
Rice University

Dr. John Mendelsohn's Legacy and the Future of Cancer Research*

Featured Speakers: Andrew Futreal (The University of Tex-
as MD Anderson Cancer Center); Margaret Kripke (The
University of Texas MD Anderson Cancer Center); John
Zerwas (Texas House of Representatives). *Introduction:*
David W. Leebron (Rice University); Peter WT Pisters
(The University of Texas MD Anderson Cancer Center)

WASHINGTON

SEATTLE

September 17, 2019
University of Washington

Seattle Local Program Committee Meeting*

September 17, 2019
University of Washington

Member Reception with Academy President David W. Oxtoby*

November 19, 2019
University of Washington

Morton L. Mandel Public Lecture Writing into the Sunset*

Featured Speakers: Annie Proulx (Seattle, WA);
Shawn Wong (University of Washington)

January 9, 2020
University of Washington

Seattle Local Program Committee Meeting*

WISCONSIN

MADISON

October 30, 2019
University of Wisconsin-Madison

Satellite Discussion—Improving Teaching: One Professor's Experience

Featured Speakers: Sandy Baum (Urban Institute);
Harry Brighouse (University of Wisconsin-Madison);
Michael S. McPherson (formerly, Spencer Foundation)

VIRTUAL EVENTS

April 9, 2020

How to Talk to Coronavirus Skeptics

Featured Speaker: Naomi Oreskes (Harvard University)

April 21, 2020

Immigration's "Malaise" in the Age of COVID-19

Featured Speaker: Marcelo Suárez-Orozco (University of
Massachusetts Boston; formerly, University of California,
Los Angeles)

April 30, 2020

The Science and Epidemiology of COVID-19

Featured Speakers: Lawrence Corey (Fred Hutchinson
Cancer Research Center; University of Washington);
Jaime Sepulveda (University of California, San Fran-
cisco). *Moderator:* Nancy C. Andrews (Duke University
School of Medicine)

May 13, 2020

Gender, Work, and COVID-19

Featured Speakers: Frances McCall Rosenbluth (Yale University); Debora Spar (Harvard Business School). *Introduction:* Nannerl Keohane (Princeton University)

May 27, 2020

How the Arts are Surviving the COVID-19 Pandemic

Featured Speakers: Robert Lynch (Americans for the Arts); Michael O'Bryan (The Village of Arts and Humanities). *Moderator:* Tania Munz (American Academy of Arts and Sciences)

June 11, 2020

Our Common Purpose: Reinventing American Democracy for the 21st Century

Featured Speakers: Danielle Allen (Harvard University); David Brooks (*The New York Times*); Stephen B. Heintz (Rockefeller Brothers Fund); Eric Liu (Citizens University); Judy Woodruff (PBS)



David Oxtoby and Al Gore



Mark Wrighton, David Konig, Judy Mann, and Emily Rauh Pulitzer

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Portrait of a Patron



Morton L. Mandel

In 2019, the Academy mourned the passing of business leader and philanthropist Morton L. Mandel, who died at the age of 98 on October 16, 2019. Elected a member of the Academy in 2011, Mr. Mandel is the single largest donor in the Academy's history with contributions totaling \$14,332,000, most of which was committed between June 2015 and October 2019.

Morton Mandel served as Chairman and Chief Executive Officer of both Parkwood, LLC and the Jack, Joseph, and Morton Mandel Foundation, which supports numerous social leadership initiatives in the United States and Israel. The Foundation's work is grounded in the belief that exceptional leaders, inspired by powerful ideas, are key to improving society and the lives of people around the world.

Mr. Mandel believed fervently in the Academy and wanted his philanthropy to serve as a challenge and a model for other potential donors. His giving helped transform the institution in numerous ways:

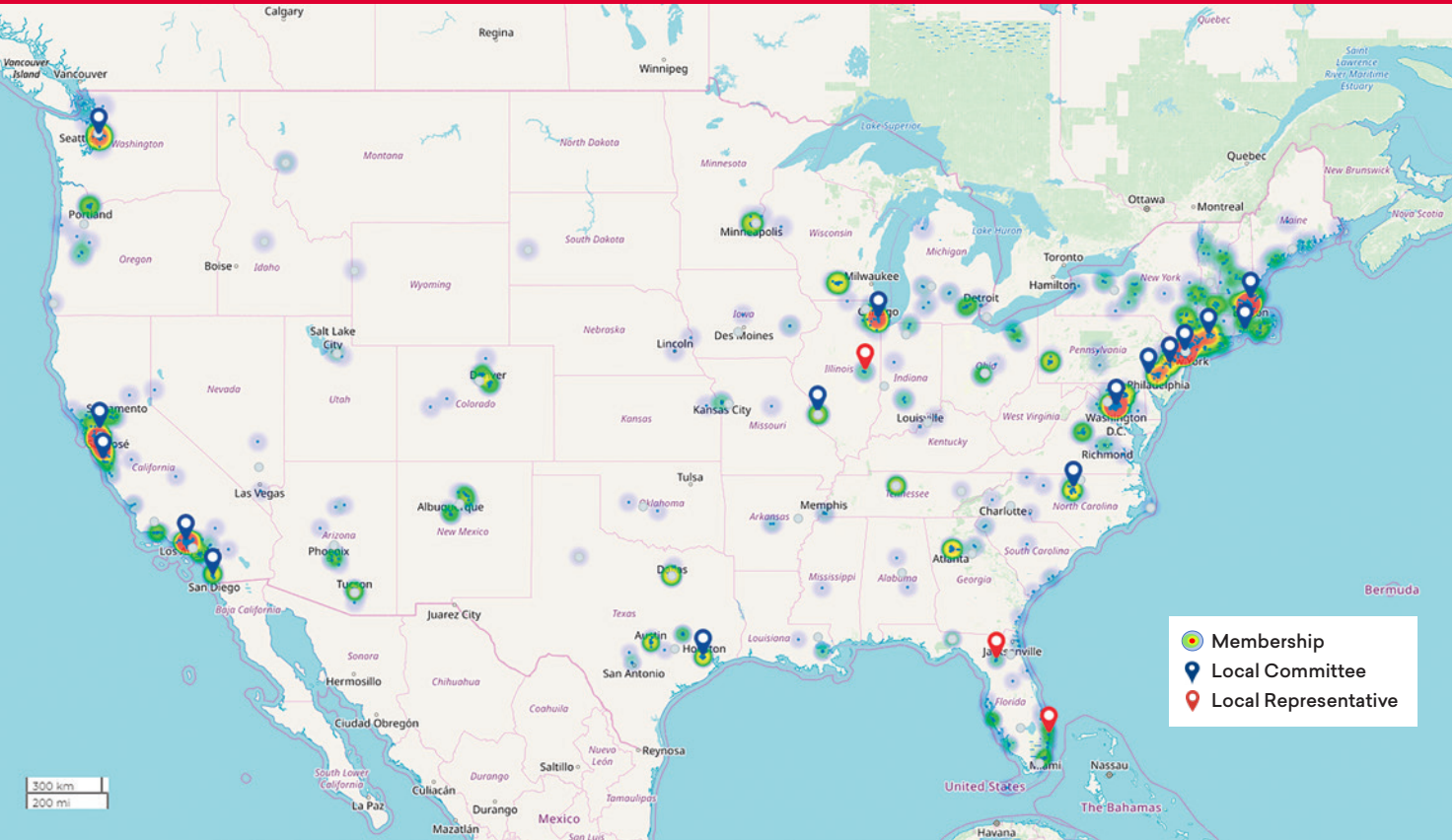
- Morton Mandel relished his membership in the Academy and helped create a program that would engage more members in the life and work of the institution. Grants from the Jack, Joseph, and Morton Mandel Foundation of \$1.5 million in endowment and more than \$650,000 in expendable funds have supported two Membership Engagement positions, which have allowed the Academy to build a network of Local Program Committees and Representatives that bring members together in locations across the country to forge social and intellectual connections, promote civil discourse, explore important issues, and elevate the impact of the Academy's work. The Academy has established committees or representatives in 18 cities and areas of the country, including Washington, D.C.; Houston; St. Louis; Seattle; Philadelphia; and San Diego.
- Mr. Mandel believed deeply in the work of the Academy and provided \$2.75 million to support the creation

of two new positions: Chief Program Officer and Director of Strategic Implementation. His generosity has strengthened the Academy's ability to select and execute high-quality work and extended the reach and influence of the institution.

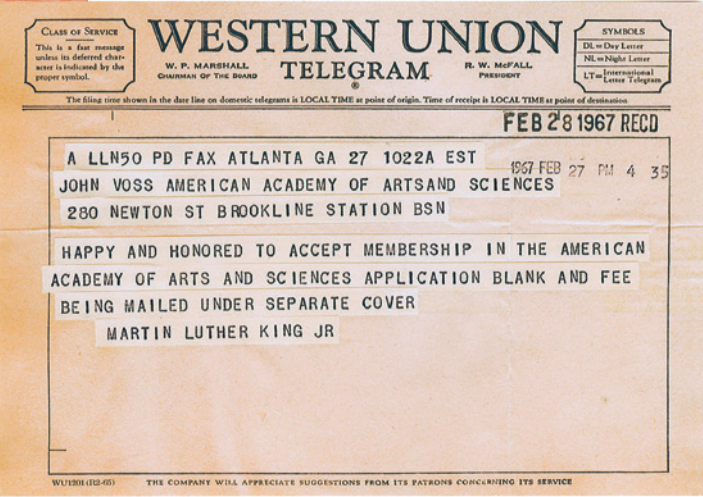
- Mr. Mandel insisted on supporting capital projects at the Academy's headquarters in Cambridge, MA. A grant of more than \$2.2 million has provided support for landscaping, exterior lighting and security cameras, upgrades to the climate control systems, software upgrades, and kitchen and restroom renovations. In addition, this summer a new portico was added to the front entrance.
- Mr. Mandel believed that the humanities are the foundation of human aspiration and experience. His final grant to the Academy included more than \$1.8 million to support the institution's archival collections and to document nearly 250 years of "useful knowledge" generated in service to the common good.

Morton Mandel's commitment to the Academy epitomized the vision set forth by the Academy's founders of a patriot dedicated to advancing the common good and devoted to service to others, to the nation, and to the world.

As Academy member Jehuda Reinharz, president and chief executive officer of the Jack, Joseph, and Morton Mandel Foundation, noted, "The positive impact Mort made in this world is beyond measure. His values of generosity, his respect for others, and his integrity will be his everlasting legacy."



Select projects and initiatives supported by Morton Mandel (clockwise from top):
 The Academy's network of Local Program Committees and Representatives; among the Academy's archival collections: a telegram from Martin Luther King Jr. accepting his election to the Academy; and a new portico at the front entrance of the Academy's building.



THE ACADEMY ITS FUTURE



A \$100 Million Campaign for the American Academy of Arts & Sciences

FOR 240 YEARS, the nation has looked to the American Academy of Arts and Sciences to offer wisdom and insight into the most profound issues of the time. In 1780, that was the formation of a free republic. In the 1850s, it was understanding the changing natural environment through the theory of evolution. In 1960, it was the creation and exploration of a field called arms control – in fact, the Academy coined that term. Today, it includes such questions as how we can sustain the dream of American democracy in the face of widening divides; and how as citizens of our planet we can respond to environmental change and its implications for migration, conflict, public health, and natural resources in order to provide for a more promising global future.

Numbering nearly 6,000 of the nation's and world's most accomplished individuals, Academy members combine their extraordinary expertise and convene other critical stakeholders to put informed recommendations in the hands of those on the front lines of these issues. Though this kind of independent, balanced, and nonpartisan resource is perhaps needed now more than ever, the Academy stands among very few organizations that have the intellectual stature, interdisciplinary representation, and convening power to provide it.

WE HAVE LAUNCHED A \$100 MILLION CAMPAIGN to build a sustainable financial future for the Academy to continue to serve as a source of knowledge on topics and activities of the greatest global significance.

Importantly, the Campaign for The Academy & Its Future builds on essential strengths and priorities identified through our recent strategic plan:

- **UPHOLD INDEPENDENT INQUIRY:** Examine the most pressing challenges of the time and seek solutions with urgency and independence.
- **ACHIEVE GREATER INFLUENCE AND IMPACT:** Offer policy-makers, scholars, the media, philanthropists, and those in the public and

private sectors the benefit of the Academy's intellectual capital in the ways it can be of greatest service.

- **ENCOMPASS MORE VOICES AND PERSPECTIVES:** Purposefully increase the diversity of perspectives that shape the Academy's work through inclusivity of members, staff, contributors, and audiences.

Philanthropic support from foundations and individuals has long fostered our ability to be independent, interdisciplinary, and innovative. As the challenges that we face today – and our aspirations to address these challenges – outpace our existing resources, we seek to ensure our continued stability and growth in the following ways:

- **DOUBLE THE ACADEMY'S ENDOWMENT** from \$35 to \$70 million to enable continuity of long-term programs, provide the flexibility to explore new ideas and launch promising initiatives, and pursue opportunities to increase the Academy's visibility and impact.
- **SECURE PROGRAM GRANTS AND MAJOR GIFTS** totaling \$43.5 million to fund a growing portfolio of influential initiatives.
- **GROW UNRESTRICTED ANNUAL SUPPORT** by increasing the participation of the members and affiliate institutions so that the Academy can respond to immediate needs and opportunities.

The Campaign for The Academy & Its Future, cochaired by Louise Henry Bryson and David M. Rubenstein, has raised over \$60 million and is scheduled to conclude in June 2022.

You can add your support at amacad.org/donate or by contacting the Academy's Development Office (617-576-5066; dev@amacad.org).

FROM THE CHAIR OF THE BOARD OF DIRECTORS



Since its establishment in 1780, the American Academy of Arts and Sciences has helped sustain the vitality of our nation, along with an awareness of the need for innovative, interdisciplinary solutions to the world's most complex challenges. As I reflect on a year marked by tremendous upheaval on many fronts, I believe that the Academy's enduring commitment to our founding values is more important than ever. I am deeply grateful for the contributions of our members' intellectual leadership and philanthropy that make this possible.

I commend my fellow members and the Academy staff for producing an impressive body of work this year, undeterred but appropriately influenced by the disruptions of COVID-19. The Commission on the Arts, Making Justice Accessible, and Rethinking the Humanitarian Health Response to Violent Conflict – projects that were all well underway in spring 2020 – took on even greater significance and quickly pivoted to account for the inequities magnified by the pandemic. In June, we released *Our Common Purpose: Reinventing American Democracy for the 21st Century*, the final report of the Commission on the Practice of Democratic Citizenship. The report offers 31 actionable recommendations to strengthen American democracy by 2026, our nation's 250th anniversary. It could not have come at a more critical moment in our history, when we are witnessing extraordinary polarization at the same time as a civic reawakening and a unifying love of country.

In the time ahead, I hope that the Academy can continue to count on your involvement and generous support. I look forward to our ongoing collaboration and fellowship.

Nancy C. Andrews

Academy Leadership

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