

Bulletin of the American Academy of Arts & Sciences

BOARD & COMMITTEE REPORTS

Nancy C. Andrews, David W. Oxtoby,
Carl H. Pforzheimer III, Louise H. Bryson,
David M. Rubenstein, and
John Mark Hansen

ACADEMY PRIZES

Ruth Lehmann,
Gertrud M. Schüpbach,
Henry Louis Gates Jr., and
Geraldine L. Richmond

REMEMBRANCE

Stephen R. Graubard

2021

ANNUAL REPORT

“Connections
unite us in common
purpose: to advance
knowledge in service
to the nation and
the world.”

FALL 2021

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Bulletin
of the American Academy of Arts & Sciences



AMERICAN ACADEMY OF ARTS & SCIENCES
Cambridge, Massachusetts

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Report of the Chair of the Board of Directors

NANCY C. ANDREWS

As I write this message, the specter of COVID-19 still hangs over our country and our world. The Academy's activities have been entirely virtual throughout 2021 (and for most of 2020), and we have postponed in-person Induction ceremonies for two consecutive years. That was a particular disappointment because it is always wonderful to greet our newly elected class and deeply moving to watch each person cross the stage to sign *The Book of Members*, attesting to their membership in the Academy. We will do everything possible to recreate that experience when it is finally safe to gather.

Over the past year, we have continued to tackle some of the most challenging issues of our time. Following on the release of *Our Common Purpose*, the final report of the Commission on the Practice of Democratic Citizenship, we committed to five years of work to disseminate its recommendations and, working with partners, to implement the most compelling ones. Under the guidance of a thoughtful and distinguished steering committee, we are keeping the commitments made in the Academy's Statement on Anti-Racism, released last year. In addition to infusing an anti-racist perspective into all our projects, we are looking carefully at how we function as an organization and, importantly, identifying ways to honor individuals who deserved to be elected to the Academy but were never offered the opportunity.

Climate change may be the most consequential issue we are facing as a country and as a world. We contemplated how the Academy might contribute to confronting climate change without being redundant with the activities of other organizations. We are approaching this work in three ways: through recent issues of *Dædalus* on "Witnessing Climate Change" and "Water Security in Africa in the Age of Global Climate Change,"



through a new Commission on Accelerating Climate Action, and, as found on page 6 of this Annual Report, through a Board of Directors Statement on Climate Change.

The American Academy of Arts and Sciences has issued very few position statements over its 241-year history, and there has never been an occasion when its governing body published two statements within a period of two years. This reflects the tremendous challenges facing our nation and our world, and the Academy's profound commitment to use the talents of our membership, the breadth of our expertise, and the strength of our convening power to, in the words of our founders, "advance the interest, honor, dignity and happiness of a free, independent and virtuous people."

Throughout this volume you will also find information on other exciting and important projects, including reports from our Arts Commission and from a group examining international scientific partnerships. We have been busy!

In closing, I want to thank the Academy's outstanding President and staff, our governance groups and volunteer leadership, our generous donors, and our venerable members for all that you have done to make this organization – your organization – as vital and important now as it was in its earliest days, almost two and a half centuries ago.

Report of the President

DAVID W. OXTOBY

As Board Chair Nancy Andrews notes in her message, the COVID-19 pandemic continues to affect every aspect of Academy life. Yet despite the challenges of the last eighteen months, by nearly every measure the strength of our community of members has only increased.

Our virtual events have drawn larger and more diverse audiences than in-person events in the past. We successfully released the final reports for several major projects and carried out wide-ranging consultations to develop two new commissions. And we experienced a record-breaking fundraising year, with overall gifts exceeding \$21 million.

These remarkable demonstrations of the strength of our community leave me filled with gratitude and hope. They also call to mind my first Annual Report message in 2019, in which I expressed my belief that “the true essence of the American Academy lies in building connections: between research and policy, among fields and disciplines, and, most importantly, across diverse groups of people and perspectives.”

These connections are certainly important for their own sake: they enrich our lives, careers, and the institutions and causes we serve. And yet for the Academy, they also unite us in common purpose: to advance knowledge in service to the nation and the world.

In my first message, I articulated a vision in which the Academy’s work is guided by two broad, overarching themes: bridging divides at home and building a global future. Despite the upheaval of the last two years, I am pleased to report that we have made important progress in realizing that vision, as detailed in the pages of this 2021 Annual Report.

We are seeking to bridge the divides in our nation through initiatives focused on strengthening democracy and civic life; promoting diversity, equity, inclusion, and anti-racism; reforming our civil justice system; advancing the role of the arts in strengthening



our communities; and launching a new commission to examine the persistent challenge of inequality in America.

Together we are building a global future through our projects on strengthening international scientific partnerships; meeting the challenges of a “new nuclear age”; reexamining humanitarian responses to violent conflict; and convening a new commission on accelerating climate action.

We have also made important progress in strengthening connections with those we ultimately serve, engaging in extensive consultations with outside experts, policy-makers, and the public to inform the implementation of *Our Common Purpose*, the final report of the Commission on the Practice of Democratic Citizenship, and the development of new projects on inequality and climate change. In a historic step to increase the impact of the Academy’s work, *Dædalus* became an open access publication in January 2021, enabling the extraordinary scholarship of our quarterly journal to reach far greater audiences.

None of this progress would have been possible without the steadfast support of our members, who enabled the Academy not only to survive but also to thrive during these difficult times. As we near the completion of our \$100 million campaign, I hope you will consider the ways in which you can strengthen your connections with the Academy and your fellow members, united in purpose to bring our country together and build a more hopeful future for the world.



Board of Directors Statement on Climate Change

The American Academy of Arts and Sciences was founded in 1780, during the American Revolution, to provide guidance to a young nation. Throughout its 241-year history, the Academy's leadership has seldom issued organizational statements, preferring to have its projects, studies, publications, and convenings present the best available thinking about the topics in question. However, when a situation arises – like climate change – that profoundly threatens the world, a call to action from the Academy's Board of Directors is appropriate.

The data and science are clear: climate change is occurring, and human activities are contributing to the warming of our planet. Experts have documented that climate change and extreme weather events – such as wildfires, floods, heat, and drought – are threatening our planet and endangering both human populations and natural ecosystems. The Academy's Board of Directors proclaims that the American Academy stands with the scientific community and others committed to climate action in recognizing the urgent need for a long-term commitment by every segment of our society to address this global issue.

The Academy – through its notable projects, publications, and convenings on climate and energy; with its newly formed Commission on Accelerating Climate Action; and with the expertise of its members in all fields, disciplines, and professions – is committed to supporting the recommendations and actions that will mitigate the impact of climate change and provide ways to adapt to life in a changing climate. We also recognize that these efforts should pursue environmental justice for those who are disproportionately affected by climate change. The Academy's Board of Directors commits that the American Academy will measure, monitor, and reduce its direct carbon footprint toward its goal of carbon neutrality by 2030.

All of us – scientists, engineers, humanists, lawyers, social scientists, educators, artists, and individuals from the private sector and government – must work together to limit and respond to climate change. In these efforts, we need to collaborate with national and international companies, organizations, and institutions. We believe that the American Academy, with its diverse membership and its commitment to elevate the use of evidence and knowledge to advance the common good, can contribute to endeavors that address climate change and help safeguard the future of our planet.

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Massachusetts Institute
of Technology

Report of the Treasurer

CARL H. PFORZHEIMER III



The firm of Mayer Hoffman McCann P.C., Certified Public Accountants, conducted the audit of the American Academy's statements of financial position for the fiscal year 2021 (July 1, 2020–June 30, 2021). I am pleased to report the auditors found the consolidated financial statements present fairly, in all material respects, the financial position of the Academy, and the auditors have issued an unqualified report. The consolidated statement of activities and financial position may be found on pages 11–12. A copy of the audited financial statements is available on the Academy's website and upon request from the Academy's Business Office.

In spite of the ongoing challenges associated with the COVID-19 pandemic, the financial stability of the Academy continues to be strong due to the generous financial support from members, foundations, and affiliates. For the fiscal year 2021, total assets increased by 36 percent, from \$85.8 million to \$116.9 million, as a result of major gifts and market gains. Total liabilities decreased from \$3.1 million to \$3.0 million. The operating budget experienced a modest surplus for the year due primarily to the limitations on travel and lower meeting expenses.

As of June 30, 2021, the investment portfolio had a fair market value of \$85.7 million, an increase of \$18.3

million, which includes an investment return of 30.6 percent. The Investment Committee continues to review and make recommendations related to the Academy's investment goals, asset allocation, and performance objectives by which the organization's assets are managed.

I would like to thank the members of the Audit Committee, Investment Committee, and Finance Committee for stewarding the Academy's resources.

Members of the Audit Committee include Larry Jay Shapiro (*Chair*), Richard Cavanagh, Frances D. Ferguson, Antonia Hernández, and Patti B. Saris.

Members of the Investment Committee include Arthur Gelb (*Chair*), Nancy C. Andrews, Ernest Cockrell, Alan M. Dachs, D. Ronald Daniel, Stephen B. Heintz, Martin Leibowitz, Suzanne Nora Johnson, David W. Oxtoby, Carl H. Pforzheimer III, Chandrika K. Tandon, and David C. Weinstein.

Members of the Finance Committee include Carl H. Pforzheimer III (*Chair*), Nancy C. Andrews, Alan M. Dachs, Arthur L. Goldstein, Stephen B. Heintz, Cherry Murray, Venkatesh Narayanamurti, David W. Oxtoby, James M. Stone, Marcelo M. Suárez-Orozco, Shirley M. Tilghman, and Pauline Yu.

American Academy of Arts and Sciences and Affiliate

Consolidated Statement of Financial Position as of June 30, 2021

Assets

Cash	\$	6,125,052
Grants and pledges receivable, net		14,567,324
Other assets		1,457,154
Investments		83,707,179
Beneficial interest in perpetual trust for science		3,216,576
Prepaid land lease, net		454,545
Property and equipment, net		10,772,638
		10,772,638
Total assets	\$	120,300,468

Liabilities and Net Assets

Liabilities

Accounts payable and accrued expenses	\$	1,165,236
Note payable		2,162,772
		2,162,772
Total liabilities		3,328,008

Net assets

Without donor restrictions		29,552,418
With donor restrictions		87,420,042
		87,420,042
Total net assets		116,972,460
Total liabilities and net assets	\$	120,300,468

American Academy of Arts and Sciences and Affiliate

Consolidated Statement of Activities and Changes in Net Assets

For the Year Ended June 30, 2021

	Without Donor Restrictions	With Donor Restrictions	Total
Revenues			
Support:			
Gifts and grants	\$	\$ 10,985,166	\$ 10,985,166
Annual appeal	2,313,323		2,313,323
University affiliates	1,087,500		1,087,500
Membership dues	939,651		939,651
Distribution from beneficial interest in perpetual trust for science		120,000	120,000
Investment return	(91,439)	719	(90,720)
Other operating income	(15,290)		(15,290)
Net assets released from purpose restrictions	4,614,436	(4,614,436)	
Total support	8,848,181	6,491,449	15,339,630
Investment spending policy for operations and programs	1,532,830	989,719	2,522,549
Total revenues	10,381,011	7,481,168	17,862,179
Expenses			
Programs	6,555,215		6,555,215
General and administrative	3,261,694		3,261,694
Development	1,180,011		1,180,011
Conference services	694,978		694,978
Total operating expenses	11,691,898		11,691,898
Changes in net assets from operations	(1,310,887)	7,481,168	6,170,281
Other Changes			
Contributions to endowment		3,958,052	3,958,052
Investment return	6,252,426	13,758,665	20,011,091
Less - spending policy distribution	(248,356)	(2,274,193)	(2,522,549)
Capital grant		3,000,000	3,000,000
Net assets released from capital restrictions	237,781	(237,781)	
Increase (decrease) in beneficial interest in perpetual trust for science		488,717	488,717
Total other changes	6,241,851	18,693,460	24,935,311
Changes in net assets	4,930,964	26,174,628	31,105,592
Net assets, beginning of year	24,621,454	61,245,414	85,866,868
Net assets, end of year	\$ 29,552,418	\$ 87,420,042	\$ 116,972,460

Report on the Campaign for the Academy & Its Future

LOUISE H. BRYSON, COCHAIR
DAVID M. RUBENSTEIN, COCHAIR

July 2020 to June 2021 marked the most successful fundraising year in the Academy's long history, with more than 1,200 donors contributing over \$21 million. Over the course of the year, we celebrated the largest gift to the Academy on record, benefited from the most grant funding received in a single year from foundations, and together achieved a new high-water mark for the Annual Fund with over \$2.1 million raised. At the close of the year, the Campaign for the Academy & Its Future had reached over 85 percent of its \$100 million goal. On behalf of the Academy's governance bodies and leadership team, we extend our sincere appreciation to all those who contributed to this remarkable outcome.

When we embarked on the Campaign, our goals were ambitious but simple. We believed that a focused fundraising effort would amplify the impact of our projects and commissions, allow us to explore new issues of national and global importance, and pave the way for a financially more sustainable future. Thanks to the generosity of the Academy's donor community, we have made progress toward each one of these goals.

To date the Campaign has supported over fifteen major projects and commissions, including the newest Commissions on Reimagining Our Economy and Accelerating Climate Action. It has made possible a renewed investment in impact, including supporting the Academy's five-year implementation and outreach effort for *Our Common Purpose*. And it has helped to build our future sustainability, notably by creating endowments for five positions on the Academy's staff.

However, the Academy's endowment is still modest, accounting for less than 25 percent of our annual



budget. The remainder is funded through gifts from you. We remain committed to completing the Campaign by 2022 to further support and sustain the Academy's mission and priorities. Thank you for your continued partnership, and for the real and measurable impact your gifts have at the Academy.

Report of the Committee on Studies & Publications

JOHN MARK HANSEN, CHAIR

The Committee on Studies and Publications supports the Academy's Council by regularly reviewing and advising on projects, considering topics for future studies, and evaluating publications, including *Dædalus*. Committee members from a broad range of disciplines and professions share their expertise on projects that explore critical issues, advance discussion on central questions, and offer solutions to both national and international challenges.

The Academy's programmatic work falls under five areas of emphasis:

- American Institutions, Society, and the Public Good
- Global Security and International Affairs
- The Humanities, Arts, and Culture
- Science, Engineering, and Technology
- Education and the Development of Knowledge.

An overview of the active projects and a list of recent Academy publications can be found on pages 16–38.

During 2021, the Committee approved and recommended two projects to the Academy's Council:

Making Justice Accessible: Implementation Plan

Following the release of the Making Justice Accessible project's final report, *Civil Justice for All*, the Committee approved a two-year implementation plan to close the civil justice gap in keeping with the findings and recommendations outlined in the *Civil Justice for All* report and



the related paper *Measuring Civil Justice for All: What Do We Know? What Do We Need to Know? How Can We Know It?* The key elements of the implementation strategy include convening and supporting a committee of experts to advise on this work, conducting targeted briefings to policymakers and other groups on the need for civil justice reform, holding public events, and fostering the collaboration and sharing of best practices across organizations active in the civil justice ecosystem. Project cochairs Martha Minow (Harvard University), John Levi (Legal Services Corporation; Sidley Austin LLP), and Kenneth C. Frazier (Merck & Co.) will continue to lead this work.

Commission on Reimagining Our Economy

After almost a year of preliminary research and project development, the Committee approved a multiyear commission to study how the nation can craft a model of good political and economic citizenship that repairs the social fabric. The commission's proposals will target political and economic institutions as well as civil society more broadly, offering a roadmap to a political economy that eases distrust and reimagines the public good. This new commission follows from the Commission on the Practice of Democratic Citizenship and will include two years of research, report development and writing, and a year of outreach and implementation. The commission is led by Ann Fudge (formerly, Young & Rubicam Brands), Katherine Cramer (University of Wisconsin-Madison), and Nicholas Lemann (Columbia University School of Journalism).

Over the course of the year, the Committee also provided advice on the following projects: the five-year implementation phase (to 2026) of *Our Common Purpose* (the final report of the Commission on the Practice of Democratic Citizenship), Challenges for International Scientific Partnerships, Commission on the Arts, Commission on Accelerating Climate Action, Humanities Indicators, and a new project on the History of the Academy. In addition, the Committee advised on a workshop “Opportunities and Challenges of Impact,” held in September 2021, that included staff from twenty-one peer organizations, such as think tanks, other academies, and university research centers.

The Committee also approved the following *Dædalus* issues:


- “Creating a New Moral Political Economy,” guest edited by Margaret Levi (Stanford University) and Henry Farrell (Johns Hopkins University). This issue of *Dædalus* departs from the recognition that the current political economic framework is fraying and seeks to build a new one – an endeavor made more critical by the COVID-19 pandemic and the racial justice movement. The volume grows out of the program of the same name at the Center for Advanced Study in the Behavioral Sciences (CASBS) at Stanford University and will seek to explore alternatives to the current political economic model. Some of the questions the authors will address include: How do we rebuild our society on a sounder and more equitable basis? How do we define the role and scope of markets, trade, and work; reconceptualize the reach and impact of government; and create a safety net that is compatible with and can benefit from a technologically driven economy? This issue of *Dædalus* will deepen thought on these long-term questions by focusing on markets, technology, equity and racial justice, workers, corporations, climate change, caregiving, and human flourishing.
- “Rethinking Humanitarian Health Responses to Violent Conflict,” guest edited by Jaime Sepulveda (University of California, San Francisco), Jennifer Welsh (McGill University), and Paul Wise (Stanford University). This issue of *Dædalus*, developed as part of the Academy’s project on Rethinking the Humanitarian Health Response to Violent Conflict, will examine current challenges to effective humanitarian action and propose new strategies for preventing civilian harm and delivering critical health services

in areas plagued by violent conflict. The volume and project are based on the premise that these new approaches are best derived from a deeper, transdisciplinary understanding of the changing political, military, legal, and health dimensions that are redefining humanitarian challenges throughout the world. The authors include legal and security experts, health professionals, leaders of humanitarian organizations, and artists.

- “Language and Social Justice in the USA,” guest edited by Walt Wolfram (North Carolina State University), Anne Charity Hudley (Stanford University), and Guadalupe Valdés (Stanford University). This volume of *Dædalus* will explore the often-overlooked issue of linguistic (in)equality. Although current diversity extends to a range of groups – such as those characterized by race/ethnicity, sexual orientation, religious affiliation, gender, and so forth – it rarely addresses language variation, which can index all of those characteristics. The volume will specifically target university programs for issues of linguistic discrimination as higher education has been an active agent in the reproduction of linguistic inequality while advocating for equality in many other realms of social structure.
- “Mental Health,” guest edited by Arthur Kleinman. As the consequences of the COVID-19 pandemic have demonstrated, mental health is one of the defining experiences of being human. Its roots are biological and social, psychological and economic. Mental illness and related conditions like substance abuse, suicide, and dementia make up the largest category of disability in the health field. Not only do they cause pain and suffering and interfere in a substantial way with work and family life, but these conditions kill. In almost every society, this array of mental health problems is among the top ten leading causes of death. This issue of *Dædalus* will look at the global public health burden of distress and disease by taking stock of mental health, mental illness, and the systems, technologies, and processes that constitute mental health care today.

On behalf of the Academy, I would like to thank the members of the Committee on Studies and Publications for their time and dedication to this work. Each project and publication of the Academy is stronger for your thoughtful guidance, and we are deeply grateful for your generosity of time and expertise.

American Institutions, Society & the Public Good



Since its founding, the American Academy of Arts and Sciences has worked to promote a strong and virtuous nation. 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 knowledge about the nation’s institutions and to develop innovative solutions to problems facing American society. Projects in this area interpret the term “institution” broadly, focusing on all of the constituent elements of government and civil society. These projects address how Americans interact with social structures, how these experiences prepare people to make a positive contribution to a diverse nation, and how these institutions might operate differently in the twenty-first century. The Academy shares this research through publications, conferences, and active outreach.

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Antonia Hernández
California Community
Foundation

William Poorvu
Harvard Business School

Kenneth Prewitt
Columbia University

James M. Stone
Plymouth Rock Companies

PROJECT Commission on the Practice of Democratic Citizenship



The Commission on the Practice of Democratic Citizenship was a multiyear project of the American Academy of Arts and Sciences. The Commission launched in 2018 to explore the factors that both encourage and discourage people from becoming engaged in their communities. The Commission's final report, *Our Common Purpose: Reinventing American Democracy for the 21st Century*, seeks to improve democratic engagement in the United States with a set of recommendations that reach across political institutions, civic culture, and civil society to revitalize American democracy by increasing representation, empowering voters, making institutions more

responsive, and restoring our civic culture. The Academy has committed to make significant progress on all of the thirty-one recommendations by 2026, the nation's 250th anniversary. In collaboration with champion organizations and leaders from across the nation, who are committed to the advancement of the recommendations, the Academy will host public events and targeted briefings; provide expert testimony and thought leadership; convene experts and practitioners for knowledge sharing and strategy development; produce op-eds and other earned media; and in other ways stand up and support the ongoing implementation of *Our Common Purpose*.

COMMISSION CHAIRS

Danielle Allen
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Rockefeller Brothers Fund

Eric Liu
Citizen University

FUNDERS

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Alan Dachs and
Lauren Dachs

Joan and Irwin Jacobs

The Lubin Family Foundation
and Sara Lee Schupf

The Suzanne Nora Johnson
and David G. Johnson
Foundation

Clary Family Charitable Gift

COMMISSION PUBLICATIONS

The Internet and Engaged Citizenship, David Karpf (2019)

The Data Driving Democracy,
Christina Couch (2020)

The Political and Civic Engagement of Immigrants,
Caroline Brettell (2020)

Our Common Purpose: Reinventing American Democracy for the 21st Century (2020)

PROJECT Making Justice Accessible



The two projects within the Making Justice Accessible initiative addressed the challenge of providing legal services to low-income Americans.

The first project, Designing Legal Services for the 21st Century, gathered information about the national need for improved legal access and advanced a set of clear national recommendations for closing the “civil justice gap” between supply of and demand for legal services. In September 2020, the project released its final report, *Civil Justice for All*, calling for the legal profession, the courts, law schools, tech professionals, and partners from other fields to join together to provide legal assistance to many more people in need. The report recommends targeted investments, simplified procedures, greater coordination and new partnerships among a range of sectors, and new advocates

who are trained to provide more accessible legal assistance.

The second project, Data Collection and Legal Services for Low-Income Americans, issued its report, *Measuring Civil Justice for All*, in February 2021. The publication, a complementary white paper to the *Civil Justice for All* report, identifies sources of existing data on legal services and unrepresented civil litigation nationwide. This project creates a blueprint for future data collection efforts, including establishing a research agenda for scholars, practitioners, and policy-makers. Participants include representatives of the courts, legal aid providers, and foundations, as well as legal scholars and social scientists.

The related Winter 2019 issue of *Dædalus* on “Access to Justice” is a multidisciplinary study of the civil justice gap, examining new models for the delivery of legal aid.

DESIGNING LEGAL SERVICES FOR THE 21ST CENTURY PROJECT CHAIRS

John G. Levi
Legal Services Corporation;
Sidley Austin LLP

Martha Minow
Harvard Law School

Kenneth C. Frazier
Merck & Co.

DATA COLLECTION AND LEGAL SERVICES FOR LOW-INCOME AMERICANS PROJECT CHAIRS

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University of Chicago

Rebecca Sandefur
Arizona State University

FUNDER

David M. Rubenstein

PROJECT PUBLICATIONS

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

Civil Justice for All (2020)

Measuring Civil Justice for All (2021)

PROJECT Commission on Reimagining Our Economy



For many Americans, the first two decades of the twenty-first century have been marked by economic uncertainty. Even before the COVID-19 pandemic and the social unrest of the last year highlighted the life-and-death consequences of structural inequality, Americans across the country faced severe financial challenges. Financial conditions have threatened lives and livelihoods and exacerbated distrust in political, economic, and community institutions. As noted in *Our Common Purpose*, the Academy's report on the practice of democratic citizenship, economic conditions influence democratic engagement and trust in institutions. Historically high levels of inequality give some people a far louder voice than others in the political conversation, and financial insecurity keeps many Americans from participating in the democratic process altogether. Similarly, the years since the 2008 financial crisis

have been marked by skepticism of the free market, financial institutions, and an economic system that has concentrated wealth and opportunity in certain parts of the country.

The multiyear Commission on Reimagining Our Economy will study the relationship between economic conditions and social and institutional trust in the United States. In the face of a global pandemic and the fallout from the 2020 election, addressing these issues is especially urgent. This project will explore how to confront the distrust wrought by the economic cleavages of the last fifty years and how the nation can craft a model of good political and economic citizenship that repairs rather than rends the social fabric. This project completed a one-year planning phase in the summer of 2021, and held its first Commission meeting in October 2021.

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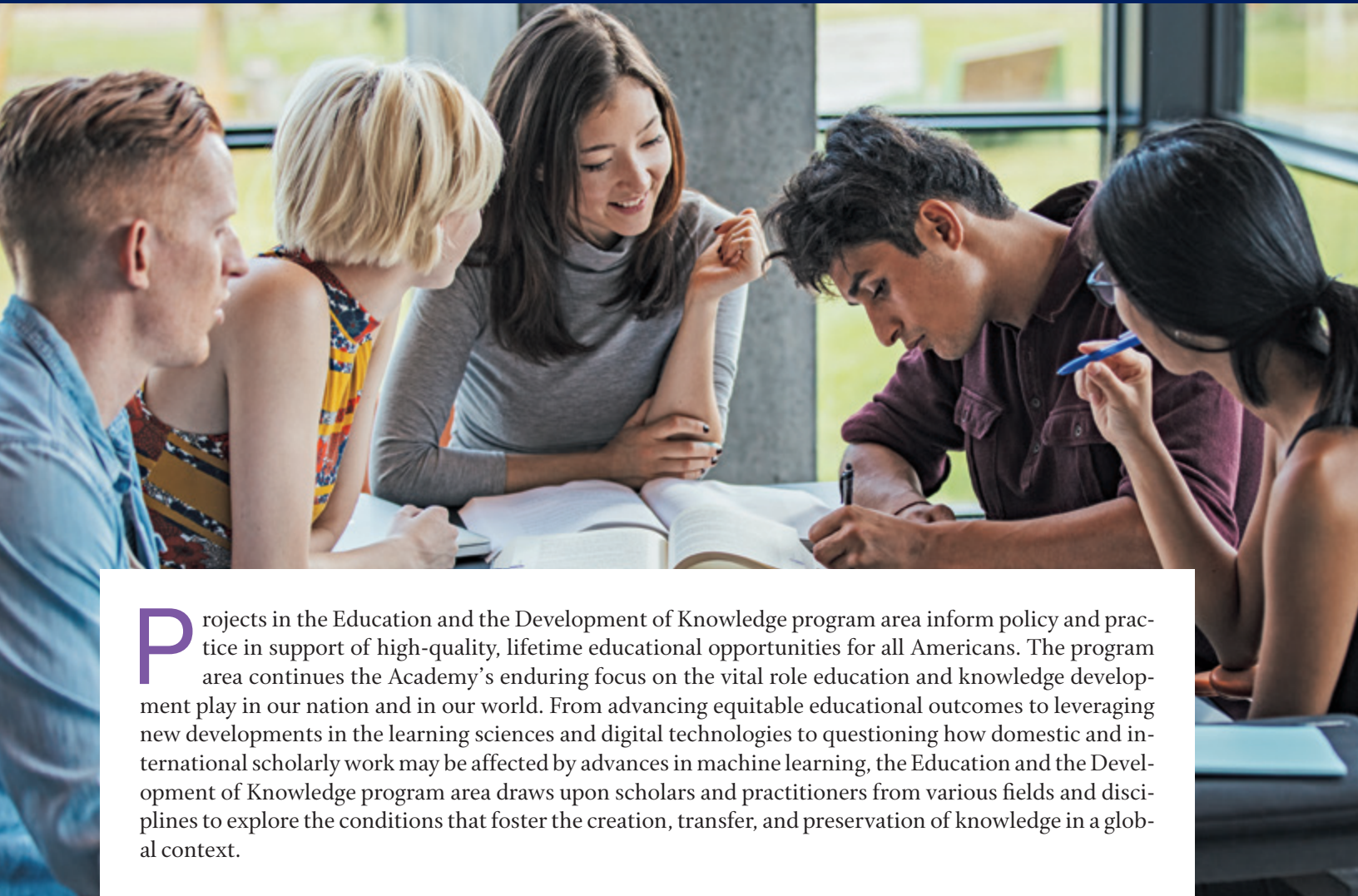
FUNDERS

William and Flora Hewlett
Foundation

C&P Battenwieser
Foundation

David M. Rubenstein

Education & 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 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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Former Governor
of Tennessee

Kathleen McCartney
Smith College

Paul Sagan
General Catalyst Partners

Tania Munz
Chief Program Officer

Morton Schapiro
Northwestern University

MEETINGS

The Dilemma Facing America's Schools During COVID-19

August 20, 2020
Virtual Event

As the nation was in the depths of the COVID-19 pandemic, the debate over if, when, and how to reopen schools gripped communities across the country. Academy members joined an interactive virtual discussion featuring Austin Beutner, Superintendent of the Los Angeles Unified School District, and Sara Bleich, Professor of Public Health Policy at the Harvard T.H. Chan School of Public Health, on the daunting choices facing school leaders during the pandemic, as they navigate the conflict between community health and the learning needs of students.

The Post-Pandemic Future of Higher Education: A Convening of American Academy Affiliates

April 23, 2021
Virtual Event

The American Academy of Arts and Sciences invited leaders from its network of Affiliate institutions to a candid, forward-looking discussion about how lessons learned from the disruption of the COVID-19 pandemic might inform the future of higher education. The program included a presentation from Richard Arum (University of California, Irvine) on insights from his Next Generation Success Measurement project, which collects data on undergraduate student behavior; a panel discussion featuring university leaders Ana Mari Cauce (University of Washington), Robert Jones (University of Illinois at Urbana-Champaign), and Christina Paxson (Brown University), who shared insights from their own experiences throughout the pandemic and their vision for the future; and small group conversations in which colleagues could connect about their own hopes and concerns for their campus communities.

Global Security & 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

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Adam Roberts
The British Academy

Jennifer M. Welsh
McGill University

Paul H. Wise
Stanford University

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



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. More information about the Academy's past and present nuclear-related projects is online at www.amacad.org/nuclear.

PROJECT Meeting the Challenges of the New Nuclear Age, Phase II: Deterrence & 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. This 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 II 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 Cornell 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, PHASE I

Robert Legvold
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Christopher Chyba
Princeton University

PROJECT CHAIRS, PHASE II

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John F. Cogan, Jr.†

Lester Crown

Alan M. Dachs

The Raymond Frankel
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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 (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 (2018)

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

Contemplating Strategic Stability in a New Multipolar Nuclear World, Robert Legvold (2019)

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

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 non-international armed conflict; the fact that many of the world's most violent places are facing criminal or political violence rather than conflict as conventionally understood; shortfalls in funding; and changing geopolitical relations. This project 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 includes a focus on responding to some of the urgent challenges posed by the COVID-19 pandemic's effects on humanitarian health needs in conflict areas and other violent settings.

Building on its efforts to address the political and security dimensions of pandemic response in areas of weak governance and violent conflict, the initiative is convening 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.

Future work across the project's major components will include substantive engagement with a range of audiences through convenings, publications, and multimedia products. A cross-cutting *Dædalus* issue, to be published in 2023, will synthesize these findings from across all components of the project, and tailored resources will be produced for selected audiences, particularly relevant stakeholders and policy-makers.

PROJECT CHAIRS

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McGill University

Paul H. Wise
Stanford University

FUNDERS

Louise Henry Bryson and
John E. Bryson

Malcolm Hewitt Wiener
Foundation

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.

One strand of the project's work consists of a series of Track-2 dialogues between experts and former policy-makers from the United States, Russia, and China, which is designed to identify critical short-term goals in arms control that would serve to minimize and reduce the potential risks of nuclear arms-racing and escalation. The meetings identify areas for cooperation and promote conceptual thinking about measures that might strengthen strategic stability and help to reduce the significant dangers of nuclear weapons being used in the future.

A second strand of work builds on the Academy's prior experience organizing educational sessions for the United States Congress on a range of topics. Through a

series of engagements with members of Congress and their staffs, the project will help to foster and strengthen knowledge on key issues and challenges facing the United States in arms control and international security, with particular attention to careful management of the strategic competition posed by China and Russia.

A third strand of work weaves the project's expert discussions and policy recommendations together to produce high-impact publications on critical debates within nuclear arms control. With authorship shared between U.S., Russian, and Chinese experts, the publication series will be used to disseminate research findings to the executive and legislative branches and the policy community at large in the United States. These publications will also be translated into Russian and Chinese for reciprocal dissemination to policy-makers and the arms control communities in Moscow and Beijing.

PROJECT CHAIR

Steven E. Miller
Harvard University

FUNDER

The Raymond Frankel
Foundation

PROJECT PUBLICATION

***Nuclear Perils in a New Era:
Bringing Perspective to the
Nuclear Choices Facing
Russia and the United
States***, Steven E. Miller and
Alexey Arbatov (2021)

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, in January 2021 the project published a research paper that focuses on the policy implications of the project's findings, which is being distributed to relevant policy-makers in the United States and internationally. Outreach activities for the paper will focus on connecting with members and staff of the U.S. Congress, with policy-makers in Europe, and with other relevant audiences.

PROJECT CHAIRS

Karl Eikenberry
Schwarzman College

Stephen Krasner
Stanford University

FUNDERS

Humanity United

Smith Richardson
Foundation

Oak Foundation

PROJECT PUBLICATIONS

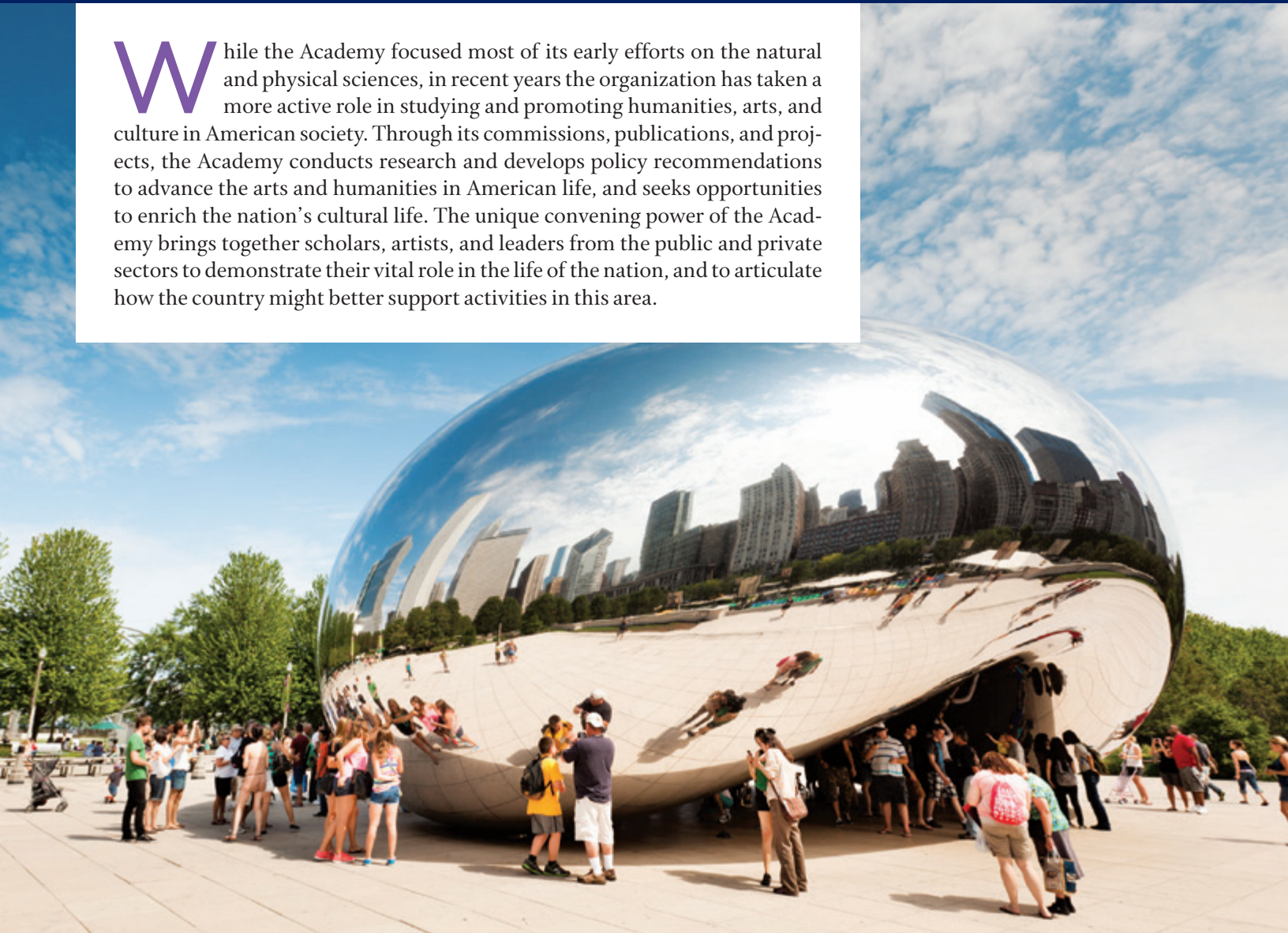
“Civil Wars & Global Disorder: Threats & Opportunities,” *Dædalus*, edited by Karl Eikenberry & Stephen D. Krasner (2017)

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

“Good Enough” Governance: Humility and the Limits of Foreign Intervention in Response to Civil Wars and Intrastate Violence, Karl Eikenberry and Stephen D. Krasner (2021)

The Humanities, Arts & Culture

While the Academy focused most of its early efforts on the natural and physical sciences, in recent years the organization has taken a more active role in studying and promoting humanities, arts, and culture in American society. Through its commissions, publications, and projects, the Academy conducts research and develops policy recommendations to advance the arts and humanities in American life, and seeks opportunities to enrich the nation's cultural life. The unique convening power of the Academy brings together scholars, artists, and leaders from the public and private sectors to demonstrate their vital role in the life of the nation, and to articulate how the country might better support activities in this area.



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Library of Congress

Jahan Ramazani
University of Virginia

Oscar Tang
New York, New York

Pauline Yu
American Council of
Learned Societies

PROJECT Commission on the Arts



The Commission on the Arts seeks to reframe the national conversation about the 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 and disciplines.

This group of artists, scholars, institutional leaders, and community advocates is guided by the common belief that the arts are essential to well-being. With this variety of perspectives, the Commission has been examining the funding mechanisms, policies, and narratives that currently govern the vast creative field.

Arts and culture are essential for their ability to bridge divides and foster community. The Commission seeks both to strengthen the impact and reach of creative work and encourage better support mechanisms for the artists and creatives whose labor and vision make that work possible.

Through reports, recommendations, and public engagement initiatives the Commission is offering a framework for how the arts can be better integrated and appreciated in public life. The first report, *Art for Life's Sake: The Case for Arts Education*, examines existing inequities and presents recommendations to make arts a core part of every student's education. A second report, *Art Is Work: Policies to Support Creative Workers*, identifies the needs of artists as workers and outlines a series of recommendations for federal and state policies that can provide long-term workforce development and job opportunities for cultural workers. In addition to these policy-oriented reports, the Commission is developing public engagement activities that include a crowd-sourced poem curated by Commission cochair Natasha Trethewey called "Remix: For My People," which was co-produced as part of PBS's American Portrait initiative. Each element of the Commission seeks, within its given topic area, to uplift the necessity of art in daily life, both personally and collectively.

COMMISSION CHAIRS

John Lithgow
Actor and Author

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

Natasha Trethewey
Northwestern University

FUNDERS

The Barr Foundation

Ford Foundation

The Getty Foundation

The John S. and James L.
Knight Foundation

The Kresge Foundation

Roger W. and
Victoria P.† Sant

COMMISSION PUBLICATIONS

Art for Life's Sake: The Case for Arts Education (2021)

Art Is Work: Policies to Support Creative Workers (2021)

† Deceased

PROJECT The Humanities Indicators



The Humanities Indicators provide nonpartisan statistical 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 humanities experiences in daily life, such as book reading and visits to museums. Now in its twelfth 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 a survey of five thousand Americans about their engagement with and attitudes toward the humanities, as well as updates to the project's widely cited analyses on the employment status, earnings, and occupations of humanities majors. The Humanities Indicators are accessible at www.amacad.org/humanities-indicators.

PROJECT DIRECTORS

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NORC at the University
of Chicago

Robert B. Townsend
American Academy of
Arts and Sciences

FUNDERS

The Andrew W. Mellon
Foundation

The project was developed with generous support from the National Endowment for the Humanities; Elihu Rose and the Madison Charitable Fund; John P. Birkelund; Peck Stackpoole Foundation; Rockefeller Foundation; Sara Lee Foundation; Teagle Foundation; Walter B. Hewlett and the William R. Hewlett Trust; and William and Flora Hewlett Foundation.

PROJECT PUBLICATIONS

The Indicators staff publishes regular online updates to the content. Over the past year, these updates included new findings on the occupations and earnings of college graduates, charitable giving to the humanities, and public libraries. The project also produced the following research reports:

The Humanities in American Life: Insights from a Survey of the Public's Attitudes & Engagement (2020)

The Humanities in American Life: At a Glance: Insights from a Survey of the Public's Attitudes & Engagement (2020)

Home with the Humanities: American Engagement During the Pandemic (2020)

The State of the Humanities in Four-Year Colleges and Universities: A Summary of Findings (2020)

State of the Humanities 2021: Workforce & Beyond (2021)

Science, Engineering & Technology



The Academy's record of distinction in Science, Engineering, and Technology dates to its founding mission "to cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people." Rather than generate new scientific research, the role of the Academy has been uniquely interdisciplinary, bridging the social sciences and arts with the physical sciences to support a national understanding, belief, and trust in science and discovery. Perhaps no better example of this can be found than in the mid-1800s when the Academy hosted hotly contested debates about a new scientific theory: the theory of evolution.

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 than it is today. 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.

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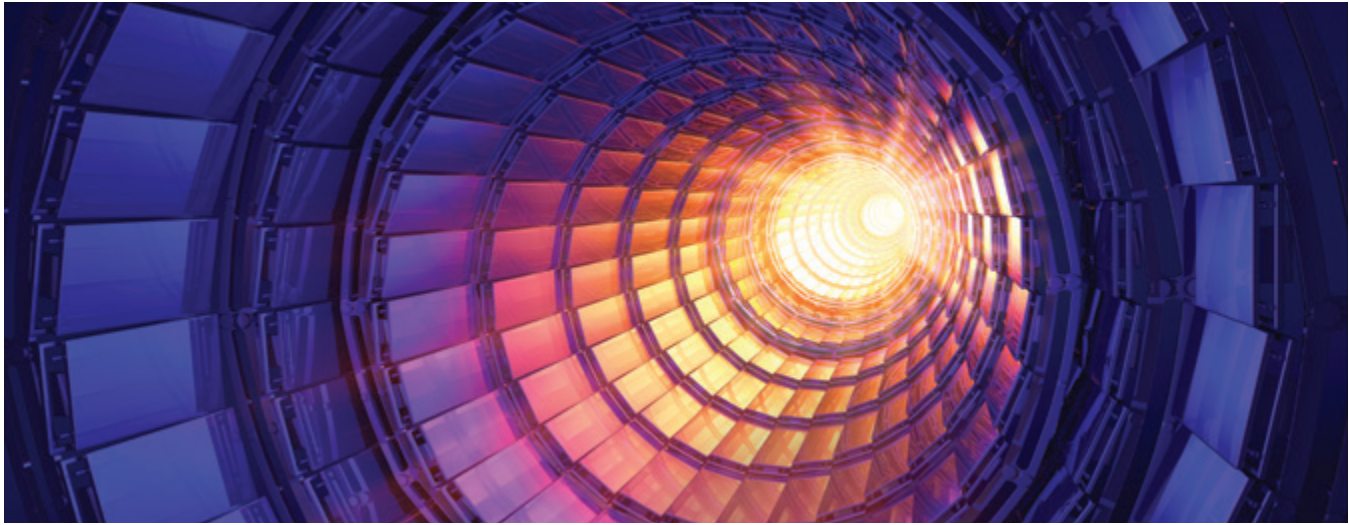
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PROJECT Challenges for International Scientific Partnerships



Challenges for International Scientific Partnerships (CISP) articulates the benefits of international collaboration and recommends solutions to the most pressing challenges associated with the design and operation of international partnerships. This initiative identifies policy recommendations and best practices to mitigate challenges for international science collaborations, including physical facilities, distributed networks, and peer-to-peer partnerships. The project released its first report, *America and the International Future of Science*, in December 2020.

The Large-Scale Science (LSS) working group approaches international collaborations through the lens of issues particular to large-scale science, not peer-to-peer or small-scale international work. This group has been tasked with exploring how the United States can enhance its role in these partnerships, both in physical

facilities (such as CERN) and distributed networks (such as the Human Cell Atlas). This group is focusing on recommendations that will bolster the ability of the United States to partake in large-scale collaboration efforts as meaningful and engaged partners. The report from this working group, *Bold Ambition: International Large-Scale Science*, was published in spring 2021.

The Emerging Science Partners (ESP) working group explores 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. This working group frames discussions around how the United States can be a better collaborator in its partnerships with emerging science partner countries and work to increase equity in these collaborations. The report from this working group, *Global Connections: Emerging Science Partners*, was released in fall 2021.

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Peter Michelson
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PROJECT
PUBLICATIONS

***America and the
International Future
of Science*** (2020)

***Bold Ambition:
International Large-
Scale Science*** (2021)

***Global Connections:
Emerging Science Partners***
(2021)

PROJECT Commission on Accelerating Climate Action



The Academy has launched a new initiative to focus on the global challenge of climate change. 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, what has prevented meaningful action?

The commission will host a series of activities, including multidisciplinary workshops and consultations, to assess the existing barriers to climate action and to address two questions: 1) How can the United States accelerate climate mitigation and adaptation strategies for all Americans regardless of race and socioeconomic background? and 2) What policies would most effectively and equitably remove barriers to climate action?

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EXPLORATORY MEETING Building Resilient and Ethical Supply Chains for a Post-COVID World



The Academy has launched a new exploratory initiative on building resiliency in supply chains, with a focus on health care and food supply chains for a post-COVID world. Supply chains are often invisible, not just to end-users but even to end-suppliers of goods and services. We have seen disruptions in the supply of some of our essential goods, such as medicines, personal protective equipment, and ventilators during the COVID-19 pandemic. In addition to mending the fractures that have been exposed in our current medical supply chain systems, the pandemic has also revealed weaknesses in our country's food supply networks, in which the human costs of production, distribution, and delivery in

unsafe conditions have been disproportionately borne by the most vulnerable participants, now reclassified as “essential workers.”

To address these questions, the Academy convened an exploratory meeting with a group of interdisciplinary experts to address the social and ethical dimensions of supply chains and produce useful recommendations for government, industry, and non-profit action. The meeting explored three themes and identified both the vulnerabilities and challenges as well as possible solutions for each: 1) health care and food security supply chains; 2) ethical considerations of supply chains; and 3) national security as it relates to supply chains.

MEETING CHAIRS

Margaret Levi
Center for Advanced Study
in the Behavioral Sciences,
Stanford University

Richard Locke
Brown University

FUNDER

American Academy
Exploratory Fund

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, *The Public Face of Science in America: Priorities for the Future*, was published in August 2020 and 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

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FUNDERS

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PROJECT PUBLICATIONS

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

Perceptions of Science in America (2018)

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

Encountering Science in America (2019)

The Public Face of Science Across the World: Optimism and Innovation in an Era of Reservations and Inequality, Matthew C. Nisbet and Erik C. Nisbet (2019)

The Public Face of Science in America: Priorities for the Future (2020)

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.

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*, published in fall 2020, 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.

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PROJECT PUBLICATIONS

***Restoring the Foundation:
The Vital Role of Research
in Preserving the American
Dream*** (2014)

***The Perils of Complacency:
America at a Tipping Point
in Science & Engineering***
(2020)

ACADEMY PUBLICATIONS

Issued Quarterly



Dædalus, the Journal of the American Academy of Arts and Sciences



Bulletin of the American Academy of Arts and Sciences

Published Recently Listed in Reverse Chronological Order



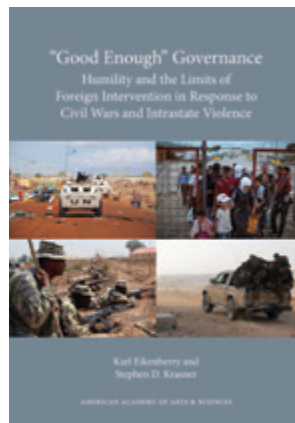
Global Connections: Emerging Science Partners (2021)

The Case for Enlarging the House of Representatives, Lee Drutman, Jonathan D. Cohen, Yuval Levin, and Norman Ornstein (2021)

State of the Humanities 2021: Workforce & Beyond (2021)

Art Is Work: Policies to Support Creative Workers (2021)

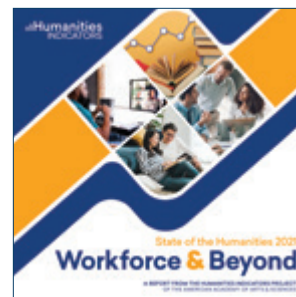
Art for Life's Sake: The Case for Arts Education (2021)



"Good Enough" Governance: Humility and the Limits of Foreign Intervention in Response to Civil Wars and Intra-state Violence, Karl Eikenberry and Stephen D. Krasner (2021)

Nuclear Perils in a New Era: Bringing Perspective to the Nuclear Choices Facing Russia and the United States, Steven E. Miller and Alexey Arbatov (2021)

"Good Enough" Governance: Humility and the Limits of Foreign Intervention in Response to Civil Wars and Intra-state Violence, Karl Eikenberry and Stephen D. Krasner (2021)



"Water Security in Africa in the Age of Global Climate Change," Dædalus, edited by Allen Isaacman, Muchaparara Musemwa, and Harry Verhoeven (2021)

"The Administrative State in the Twenty-First Century: Deconstruction and/or Reconstruction," Dædalus, edited by Mark Tushnet (2021)

"Immigration, Nativism & Race in the United States," Dædalus, edited by Douglas S. Massey (2021)

"On the Novel," Dædalus, edited by Michael Wood (2021)



Bold Ambition: International Large-Scale Science (2021)

America and the International Future of Science (2020)

The Humanities in American Life: Insights from a Survey of the Public's Attitudes and Engagement (2020)

Home with the Humanities: American Engagement During the Pandemic (2020)

The State of the Humanities in Four-Year Colleges and Universities: A Summary of Findings (2020)



The Perils of Complacency: America at a Tipping Point in Science & Engineering (2020)

Civil Justice for All (2020)

The Public Face of Science in America: Priorities for the Future (2020)

Our Common Purpose: Reinventing American Democracy for the 21st Century (2020)

“Witnessing Climate Change,” *Dædalus*, edited by Nancy L. Rosenblum (2020)

“Religion & Democracy,” *Dædalus*, edited by Robert Audi (2020)

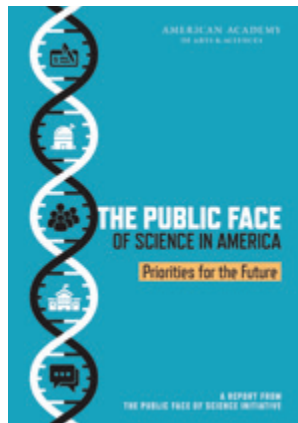
“Meeting the Challenges of a New Nuclear Age,” *Dædalus*, edited by Robert Legvold and Christopher Chyba (2020)

“Women & Equality,” *Dædalus*, edited by Nannerl O. Keohane and Frances McCall Rosenbluth (2020)

The Political and Civic Engagement of Immigrants, Caroline Brettell (2020)

The Data Driving Democracy, Christina Couch (2020)

Contemplating Strategic Stability in a New Multipolar Nuclear World, Robert Legvold (2019)



The Internet and Engaged Citizenship, David Karpf (2019)

The Public Face of Science Across the World: Optimism and Innovation in an Era of Reservations and Inequality, Matthew C. Nisbet and Erik C. Nisbet (2019)

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

Lessons from the Clean Air Act: Building Durability and Adaptability into U.S. Climate and Energy Policy, edited by Ann Carlson and Dallas Burtraw (2019)

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

“Inequality as a Multidimensional Process,” *Dædalus*, edited by Michèle Lamont and Paul Pierson (2019)

“Why Jazz Still Matters,” *Dædalus*, edited by Gerald Early and Ingrid Monson (2019)

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



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

The Humanities in Our Lives (2019)

Encountering Science in America (2019)

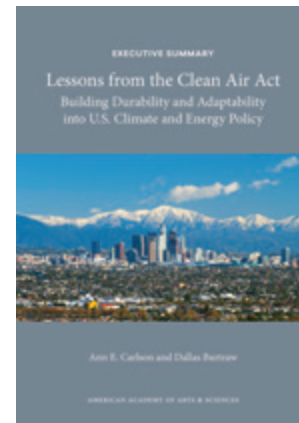
Perceptions of Science in America (2018)

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 (2018)

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

The State of the Humanities 2018: Graduates in the Workforce & Beyond (2018)

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



“Anticorruption: How to Beat Back Political & Corporate Graft,” *Dædalus*, edited by Robert I. Rotberg (2018)

“Unfolding Futures: Indigenous Ways of Knowing for the Twenty-First Century,” *Dædalus*, edited by Philip J. Deloria, K. Tsianina Lomawaima, Bryan McKinley Jones Brayboy, Mark N. Trahan, Loren Ghiglione, Douglas Medin, and Ned Blackhawk (2018)

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

The Future of Undergraduate Education, *The Future of America* (2017)

Policies and Practices to Support Improving Undergraduate Teaching, Aaron Pallas, Anna Neumann, and Corbin Campbell (2017)

The Economic Impact of Increasing College Completion, Sophia Koropecyk, Chris Lafakis, and Adam Ozimek, Moody's Analytics (2017)

Undergraduate Financial Aid in the United States, Judith Scott-Clayton (2017)

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

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The Academy typically holds events around the country and the world that bring members and others in their communities together. Although the COVID-19 pandemic suspended in-person events, the Academy continued to explore topics of national and global concern through a series of virtual activities. Academy President David W. Oxtoby provided opening remarks and moderated most of the virtual meetings and events.

July 7, 2020

Technology and Empathy After COVID-19

FEATURED SPEAKER: Sherry Turkle (Massachusetts Institute of Technology)

July 16, 2020

Reflections on the State of the Humanities in Colleges and Universities

FEATURED SPEAKERS: Jonathan Holloway (Rutgers University); Melissa Nobles (Massachusetts Institute of Technology)

July 20, 2020

Democratic Citizenship: A Discussion with the Commission's Leaders and Academy Members

FEATURED SPEAKERS: Danielle Allen (Harvard University); Stephen Heintz (Rockefeller Brothers Fund); Eric Liu (Citizen University)

August 20, 2020

The Dilemma Facing America's Schools During COVID-19*

FEATURED SPEAKERS: Austin Beutner (Los Angeles Unified School District); Sara Bleich (Harvard T.H. Chan School of Public Health)

August 24, 2020

Does Meritocracy Destroy the Common Good? *Morton L. Mandel Public Lecture*

FEATURED SPEAKERS: T. J. Jackson Lears (Rutgers University); Michael Sandel (Harvard University); Anna Deavere Smith (New York University)

September 16, 2020

Earning Trust in the Age of the Pandemic *Cosponsored with the National Academies of Sciences, Engineering, and Medicine*

FEATURED SPEAKERS: Francis Collins (National Institutes of Health); Evelyn Hammonds (Harvard University); Seth Mnookin (Massachusetts Institute of Technology); Monica Schoch-Spana (Johns Hopkins University); **INTRODUCTION:** Victor J. Dzau (National Academy of Medicine); **MODERATOR:** Erica Kimmerling (Association of Science and Technology Centers)

September 24, 2020

Launching a New Report, "Civil Justice for All"

FEATURED SPEAKERS: Kenneth Frazier (Merck & Company); John Levi (Legal Services Corporation; Sidley Austin LLP); Martha Minow (Harvard Law School); **MODERATOR:** David M. Rubenstein (The Carlyle Group)

*Activity of a Local Program Committee or Representative

September 25, 2020

Can We Rebuild Social Cohesion in the United States?*Cosponsored with the Center for Advanced Study in the Behavioral Sciences, Stanford University***FEATURED SPEAKERS:** Danielle Allen (Harvard University); Eric Klinenberg (New York University); Shaylyn Romney Garrett (Washington, Utah); Robert Putnam (Harvard University); **MODERATOR:** David Brooks (*The New York Times*)

September 30, 2020

Inadequate Investment: America, China, and the Future of Innovation**FEATURED SPEAKERS:** Norman Augustine (Lockheed Martin Corporation); Neal Francis Lane (Rice University); Jeanette Wing (Columbia University); **MODERATOR:** Nancy C. Andrews (Duke University)

October 7, 2020

Celebration of New Members**FEATURED SPEAKERS:** Danielle Allen (Harvard University); Nancy C. Andrews (Duke University); Karl Eikenberry (Stanford University); John Lithgow (Actor; Author); Marcelo Suárez-Orozco (University of Massachusetts Boston); Geraldine Richmond (University of Oregon); David M. Rubenstein (The Carlyle Group); Natasha Trethewey (Northwestern University)

October 17, 2020

Reinventing Democracy for the 21st Century: A University of Chicago Humanities Day Discussion***FEATURED SPEAKERS:** William Howell (University of Chicago); Tracey Meares (Yale University); Susan Stokes (University of Chicago); Diane Wood (United States Court of Appeals, Seventh Circuit); **MODERATOR:** Eric Slauter (University of Chicago); **INTRODUCTION:** Anne Walters Robinson (University of Chicago)

October 22, 2020

Telling Our Regional Story: The Narratives that Unite and Divide in North Carolina: A UNC Research Week Discussion***FEATURED SPEAKERS:** John Aldrich (Duke University); David Price (U.S. House of Representatives); Phoebe Stein (Federation of State Humanities Councils); William Sturkey (University of North Carolina at Chapel Hill); **INTRODUCTION:** Paula D. McClain (Duke University); Terry Magnuson (University of North Carolina at Chapel Hill)

October 27, 2020

Civil Justice for All: Law Schools and the Civil Justice Gap**FEATURED SPEAKERS:** Tonya Brito (University of Wisconsin Law School); Margaret H. Marshall (Choate, Hall, and Stewart LLP; formerly, Massachusetts Supreme Judicial Court); Martha Minow (Harvard Law School); Dayna Bowen Matthew (George Washington University Law School); Andrew Perlman (Suffolk University School of Law); Quinten Steenhuis (Suffolk University School of Law)

November 16, 2020

A Toast to New Members in Chicago***FEATURED SPEAKER:** John W. Rogers, Jr. (Ariel Investments, LLC); **INTRODUCTION:** Young-Kee Kim (University of Chicago)

November 18, 2020

Exploring the Humanities in American Life**FEATURED SPEAKERS:** Kenneth Burns (Florentine Films); Brenda Thomson (Arizona Humanities); Kevin Young (New York Public Library); **INTRODUCTION:** John Parrish Peede (National Endowment for the Humanities)

December 2, 2020

A Conversation with Astronaut Jessica Meir*

FEATURED SPEAKER: Jessica Meir (NASA); **MODERATOR:** Brian Keating (University of California, San Diego); **INTRODUCTION:** Thomas Evan Levy (University of California, San Diego); Geoffrey Myles Wahl (Salk Institute for Biological Studies)

December 8, 2020

Health and Civil Justice: Innovative Partnerships Between Medicine and the Law

Cosponsored with the National Center for Medical-Legal Partnership at the George Washington University

FEATURED SPEAKERS: Jay Chaudhary (Indiana Family and Social Services Administration); Bethany Hamilton (George Washington University); Sharad Kohli (People's Community Clinic); Keegan Warren-Clem (University of Texas); **MODERATOR:** Allison Rice (Duke University)

December 9, 2020

Steps Toward International Climate Governance*

Cosponsored with Yale University's MacMillan Center

FEATURED SPEAKERS: Scott Barrett (Columbia University); Pinelopi Goldberg (Yale University); William Nordhaus (Yale University); **INTRODUCTION:** Steven Wilkinson (Yale University)

December 14, 2020

Making the Case for International Scientific Partnerships

FEATURED SPEAKERS: Arthur Bienenstock (Stanford University); Shirley Malcom (American Association for the Advancement of Science); Peter Michelson (Stanford University); Olufunmilayo Olopade (University of Chicago)

January 6, 2021

Honoring William Labov

Cosponsored with the Linguistic Society of America

FEATURED SPEAKER: William Labov (University of Pennsylvania); **INTRODUCTION:** Penelope Eckert (Stanford University); Wendell Pritchett (University of Pennsylvania)

January 31, 2021

Making Sweet Tea: A Discussion with E. Patrick Johnson*

FEATURED SPEAKER: E. Patrick Johnson (Northwestern University); **INTRODUCTION:** Young-Kee Kim (University of Chicago), Richard I. Morimoto (Northwestern University)

February 3, 2021

Honoring Ruth Lehmann and Gertrude Schüpbach

FEATURED SPEAKERS: Ruth Lehmann (Massachusetts Institute of Technology); Gertrude Schüpbach (Princeton University); **INTRODUCTION:** Nancy C. Andrews (Duke University); Shirley Tilghman (Princeton University)

February 8, 2021

A Timely Confluence: The Backstory of Moderna's COVID-19 Vaccine

FEATURED SPEAKER: Melissa Moore (Moderna Therapeutics)

February 9, 2021

Introducing "Measuring Civil Justice for All"

FEATURED SPEAKERS: John Mark Hansen (University of Chicago); Rebecca Sandefur (Arizona State University); James Sandman (University of Pennsylvania Carey Law School)

February 11, 2021

A Circle of Notable Native American Scholars

Cosponsored with Harvard University Native American Program (HUNAP) and the Stanford American Indian Organization (SAIO) and Native American Cultural Center (NACC)

FEATURED SPEAKERS: Philip Deloria (Harvard University); K. Tsianina Lomawaima (Arizona State University); Henrietta Mann (Montana State University); Greg Sarris (Sonoma State University); Robert Warrior (University of Kansas)

February 21, 2021

Southern California Members Reception*

FEATURED SPEAKERS: Louis Geoffrey Cowan (University of Southern California); Antonia Hernández (California Community Foundation); John Lithgow (Actor; Author); Ernest Wilson (University of Southern California)

February 23, 2021

American Democracy and Civic Participation in 2021: A Conversation with Danielle Allen and Eric Liu

Cosponsored with the Chicago Community Trust

FEATURED SPEAKERS: Danielle Allen (Harvard University); Eric Liu (Citizen University); **MODERATOR:** Helene Gayle (Chicago Community Trust)

March 3, 2021

Why America Needs Service Now, More Than Ever

FEATURED SPEAKERS: Josh Fryday (State of California); Kei Kawashima-Ginsberg (Tufts University); Darryl Lester (Institute for Building Communities by Design); Fareed Zakaria (CNN; *The Washington Post*)

March 10, 2021

Empathy and Our Future

Morton L. Mandel Public Lecture

FEATURED SPEAKERS: Eric Liu (Citizen University); Sherry Turkle (Massachusetts Institute of Technology)

March 11, 2021

Using Civic Media to Build a Better Society

Cosponsored with the Library of Congress

FEATURED SPEAKERS: Danielle Allen (Harvard University); Talia Stroud (University of Texas); Brendesha Tynes (University of Southern California); Richard Young (CivicLex)

March 16, 2021

The COVID-19 Pandemic and Vaccine Development*

FEATURED SPEAKERS: Rommie Amaro (University of California, San Diego); Natasha Martin (University of California, San Diego); Robert Schooley (University of California, San Diego); **INTRODUCTION:** Thomas Evan Levy (University of California, San Diego); Geoffrey Myles Wahl (Salk Institute for Biological Studies)

March 18, 2021

America's Black-White Divide: Looking Back, Looking Around, Looking Forward

Cosponsored with the Center for Advanced Study in Behavioral Sciences, Stanford University

FEATURED SPEAKERS: Lawrence Bobo (Harvard University); Henry Louis Gates Jr. (Harvard University); Claude Steele (Stanford University); **MODERATOR:** Margaret Levi (Stanford University)

March 24, 2021

Honoring Margaret Atwood

FEATURED SPEAKER: Margaret Atwood (Toronto, Ontario, Canada); **MODERATOR:** Gish Jen (Cambridge, Massachusetts); **INTRODUCTION:** Nancy C. Andrews (Duke University)

March 24, 2021

Ash Center Presents: “Our Common Purpose: Reinventing American Democracy for the 21st Century”

Cosponsored with the Ash Center for Democratic Governance and Innovation, Harvard University

FEATURED SPEAKERS: Danielle Allen (Harvard University); Stephen Heintz (Rockefeller Brothers Fund); Eric Liu (Citizen University); **MODERATOR:** Archon Fung (Harvard Kennedy School)

April 6, 2021

The American Mythology of Racial Progress*

FEATURED SPEAKER: Jennifer Richeson (Yale University)

April 8, 2021

HBO Documentary Films’ “Our Towns” Virtual Screening and Q&A

FEATURED SPEAKERS: Steven Ascher (West City Films); Dee Davis (Center for Rural Strategies); Deborah Fallows (New America); James Fallows (*The Atlantic*); Jeanne Jordan (West City Films)

April 15, 2021

How Political Institutions Shape Outcomes and How We Might Reform Them

Cosponsored with the Library of Congress

FEATURED SPEAKERS: Danielle Allen (Harvard University); Lee Drutman (New America); Katie Fahey (Of the People); Cara McCormick (National Association of Nonpartisan Reformers)

April 21, 2021

Investing in Civic Education and Our Democracy

FEATURED SPEAKERS: Danielle Allen (Harvard University); Allonah Ashworth (Houston, Texas); Sam Buker (Wellesley, Massachusetts); Mae Ciezki (Chula Vista, California); Shawn Healy (iCivics); Kei Kawashima-Ginsberg (Tufts University); David McCullough III (American Exchange Program); Tammy Waller (Arizona Department of Education)

April 23, 2021

The Post-Pandemic Future of Higher Education

FEATURED SPEAKERS: Richard Arum (University of California, Irvine); Ana Mari Cauce (University of Washington); Robert Jones (University of Illinois at Urbana-Champaign); Christina Paxson (Brown University)

May 6, 2021

A Conversation with Architect Jeanne Gang

FEATURED SPEAKER: Jeanne Gang (Studio Gang)

May 13, 2021

Finding a Shared Historical Narrative

Cosponsored with the Library of Congress

FEATURED SPEAKERS: Danielle Allen (Harvard University); Samuel Goldman (George Washington University); Natalia Molina (University of Southern California); Cathy Park Hong (Rutgers University–Newark)

May 20, 2021

Artists at Work

Cosponsored with Springboard for the Arts

FEATURED SPEAKERS: Oskar Eustis (The Public Theater); Thelma Golden (The Studio Museum in Harlem); Laura Zabel (Springboard for the Arts)

May 27, 2021

Reflections on a Full, Consequential, and Lucky Life: Science, Leadership, and Education*

Cosponsored with the University of Chicago Physics Department

FEATURED SPEAKERS: Walter Massey (School of the Art Institute of Chicago); Don Michael Randel (formerly, University of Chicago); **INTRODUCTION:** Young-Kee Kim (University of Chicago)

June 1, 2021

Exploring the Future of International Large-Scale Science

FEATURED SPEAKERS: Arthur Bienenstock (Stanford University); E. William Colglazier (*Science & Diplomacy*, American Association for the Advancement of Science); France Córdova (Science Philanthropy Alliance); James Curran (Emory University); Jonathan Manne Dorfman (Stanford University); Kaye Husbands Fealing (Georgia Institute of Technology); Peter Michelson (Stanford University)

June 10, 2021

The Hybrid Workforce of the Future

FEATURED SPEAKERS: James Manyika (McKinsey and Company; McKinsey Global Institute); Indra Nooyi (formerly, PepsiCo); Robert Pozen (Massachusetts Institute of Technology)

June 14, 2021

Reckoning with Organizational History

Morton L. Mandel Public Lecture

FEATURED SPEAKERS: Claudia Rankine (Yale University); John DeGioia (Georgetown University); Susan Goldberg (National Geographic); Brent Leggs (African American Cultural Heritage Action Fund); **MODERATOR:** Ben Vinson (Case Western Reserve University)

June 30, 2021

American Democracy Under Construction

FEATURED SPEAKERS: Hahrie Han (Johns Hopkins University); Wallace B. Jefferson (Alexander Dubose & Jefferson LLP); Yuval Levin (American Enterprise Institute); Norman J. Ornstein (American Enterprise Institute; *The Atlantic*); **MODERATOR:** Judy Woodruff (PBS *NewsHour*)

July 15, 2021

“Good Enough” Governance and Peacekeeping

Cohosted with the United Nations Department of Peace Operations

FEATURED SPEAKERS: Karl Eikenberry (U.S. Department of State; Tsinghua University); Vanda Felbab-Brown (Brookings Institution); Stephen Krasner (Stanford University); Clare Lockhart (Yale University); Stephen Stedman (Stanford University); **INTRODUCTION:** Jean-Pierre Lacroix (United Nations)

September 15, 2021

Now What? An Action Plan for Advancing Arts Education

Cohosted with the Arts Education Partnership

FEATURED SPEAKERS: Porché Hardy (The Wallace Foundation); John Lithgow (Actor; Author); Sonia Manzano (Actress; Author); Mario Rossero (National Art Education Association); Nemisa Samanthapudi (Student); **MODERATOR:** Allentza Michel (American Academy of Arts and Sciences)

September 28, 2021

Online Celebration of 2021 New Members

FEATURED SPEAKERS: Nancy Andrews (Duke University); Ann Fudge (formerly, Young & Rubicam Brands); John Lithgow (Actor; Author); Eric Liu (Citizen University); Geraldine Richmond (University of Oregon); David Rubenstein (The Carlyle Group); Marcelo Suárez-Orozco (University of Massachusetts Boston); Natasha Trethewey (Northwestern University)

October 18, 2021

A Virtual Welcome to New Members in Philadelphia

MODERATORS: Kathleen Hall Jamieson (University of Pennsylvania); Nora Newcombe (Temple University)

October 27, 2021

New Horizons: Elevating the Arts in American Life

FEATURED SPEAKERS: John Lithgow (Actor; Author); Deborah Rutter (The John F. Kennedy Center for the Performing Arts); Natasha Trethewey (Northwestern University); **MODERATOR:** Stephen Colbert (*The Late Show with Stephen Colbert*)

November 1, 2021

A Toast to New Members in Chicago

FEATURED SPEAKER: Helene Gayle (Chicago Community Trust); **INTRODUCTION:** Young-Kee Kim (University of Chicago); Richard Morimoto (Northwestern University)

November 8, 2021

Future Founders Initiative–Boston Biotech Working Group Meeting

November 9, 2021

The Afterlife of the Humanities Major

Cohosted with the National Humanities Center

FEATURED SPEAKERS: Pam Hendrickson (The Riverside Company); Rebekah Paré (University of Wisconsin-Madison); Ben Vinson (Case Western Reserve University); **MODERATOR:** Robert Newman (National Humanities Center)

December 1, 2021

The Role of Higher Education in American Democracy: A Convening of American Academy Affiliates

FEATURED SPEAKERS: Melody Barnes (University of Virginia); Ronald Daniels (Johns Hopkins University); **MODERATOR:** Lisa García Bedolla (University of California, Berkeley)

December 7, 2021

The Supreme Court's Transformational Year: A Conversation with Linda Greenhouse* *Morton L. Mandel Public Lecture*

FEATURED SPEAKER: Linda Greenhouse (Yale Law School)

ACADEMY PRIZES

Recent Prizes



FRANCIS AMORY PRIZE

Ruth Lehmann (Massachusetts Institute of Technology; Whitehead Institute) and Gertrud M. Schüpbach (Princeton University) – 2020 recipients



DON M. RANDEL AWARD FOR HUMANISTIC STUDIES

Henry Louis Gates Jr. (Harvard University) – 2021 recipient



DISTINGUISHED LEADERSHIP AWARD

Geraldine L. Richmond (University of Oregon) – 2021 recipient

All Prizes

FRANCIS AMORY PRIZE

First awarded in 1940, this prize was established by a bequest made in 1912 by Francis Amory to recognize significant scientific advances in reproductive biology and medical care. Recipients of the Francis Amory Prize include Karl Sune Detlof Bergstroem, Eugene M. Bricker, Min Chueh Chang, Justin L. Cordonnier, Frederic B. Foley, David L. Garbers, Harry Goldblatt, Peter N. Goodfellow, Alexander Benjamin Gutman, Geoffrey Wingfield Harris, J. Hartwell Harrison, Charles Brenton Huggins, David M. Hume, Elwood Vernon Jensen, Willem Johan Kolff, Ernest Laqueur, Henry Lardy, Choh Hao Li, Robin H. Lovell-Badge, Mary Frances Lyon, Thaddeus R. R. Mann, Guy Frederic Marrian, Joseph Francis McCarthy, John P. Merrill, Barbara Jean Meyer, Benjamin F. Miller, Terence J. Millin, Beatrice Mintz, Carl Richard Moore, Joseph E. Murray, Warren O. Nelson, Susumu Ohno, David C. Page, George Nicholas Papanicolaou, Eugene F. Poutasse, George W. Thorn, Hans Henriksen Ussing, Selman Abraham Waksman, Frederick J. Wallace, Patrick C. Walsh, Lawson Wilkins, Howard Guy Williams-Ashman, Jean D. Wilson, and Hugh Hampton Young. The recipients of the 2020 Francis Amory Prize are Ruth Lehmann and Gertrud M. Schüpbach.

AWARD FOR EXCELLENCE IN PUBLIC POLICY AND PUBLIC AFFAIRS

Established in 2018, this award is presented to individuals for their distinction, independence, effectiveness, and work on behalf of the common good. The inaugural recipient of the Award for Excellence in Public Policy and Public Affairs is Ernest J. Moniz.

DISTINGUISHED LEADERSHIP AWARD

First awarded in 2016, the Distinguished Leadership Award recognizes individuals who exemplify a legacy of leadership and dedication to the founding ideals of the American Academy. Recipients of the Distinguished Leadership Award include Jonathan F. Fanton, Jerrold Meinwald, and Don M. Randel. The recipient of the 2021 Distinguished Leadership Award is Geraldine L. Richmond.

EMERSON-THOREAU MEDAL

The Emerson-Thoreau Medal was established in 1958 to give special recognition to distinguished achievement in the broad field of literature. The prize is awarded to a person for their total literary achievement rather than for a specific work. Recipients of the Emerson-Thoreau Medal include Hannah Arendt, Margaret Atwood, Saul Bellow, Henry Beston, Mark Van Doren, Thomas Stearns Eliot, James T. Farrell, Robert Frost, Joseph Wood Krutch, Norman Mailer, Samuel Eliot Morison, Toni Morrison, Lewis Mumford, Katherine Anne Porter, John Crowe Ransom, I. A. Richards, Philip Roth, Robert Penn Warren, and Edmund Wilson.

FOUNDERS AWARD

Established in 2005 on the occasion of the 225th anniversary of the Academy's founding, this award honors individuals and institutions that have advanced the ideals of the Founders of the Academy. Recipients embody the spirit of the Founders: a commitment to intellectual inquiry, leadership, and active engagement. Recipients of the Founders Award include Robert J. Birgeneau, John H. Bryan, Richard J. Franke, John L. Hennessy, George Lucas, Jack Peltason, and Don M. Randel.

DON M. RANDEL AWARD FOR HUMANISTIC STUDIES

The Award for Humanistic Studies was established in 1975 by the Council of the Academy to acknowledge superior humanistic scholarship and raise its visibility with the general reading public. The award was renamed in 2017 in honor of musicologist and former Chair of the Academy's Board of Directors Don M. Randel. The award complements the Emerson-Thoreau Medal for achievement in literature. Recipients of the Award for Humanistic Studies include Meyer Abrams, Kenneth Burke, Denis Donoghue, Martha Craven Nussbaum, Helen Vendler, and Jean-Pierre Vernant. The recipient of the 2021 Don M. Randel Award for Humanistic Studies is Henry Louis Gates Jr.

RUMFORD PRIZE

Established in 1839, this is one of the oldest scientific prizes in the United States. This prize recognizes contributions to the fields of heat and light, broadly interpreted. The endowment was created by a bequest to the Academy from Benjamin Thompson, Count Rumford, in 1797. Recipients of the Rumford Prize include Charles Greeley Abbot, Edward Goodrich Acheson, John A. Ball, Ernst Bamberg, C. C. Bare, Alan H. Barrett, Carl Barus, Hans Albrecht Bethe, Ira Sprague Bowen, Edward Boyden, Percy Williams Bridgeman, Norman W. Broten, Charles Francis Brush, Bernard F. Burke, Federico Capasso, Joseph C. Carter, Subrahmanyan Chandrasekhar, R. M. Chisholm, Alfred Cho, Alvan Clark, Carry G. Clark, William Weber Coblentz, Marshall H. Cohen, William David Coolidge, Samuel Cornette Collins, Arthur Holly Compton, Karl Taylor Compton, George Henry Corliss, James Madison Crafts, Patricia P. Crowther, Charles Gordon Curtis, Hans Georg Dehmelt, Karl Deisseroth, Martin Deutsch, Robert Henry Dicke, John William Draper, Sidney D. Drell, Thomas Alva Edison, John Ericsson, George Feher, Enrico Fermi, James Franck, John A. Galt, Josiah Willard Gibbs, Herbert P. Gush, George Ellery Hale, Robert Hare, George Russell Harrison, Joseph Harrison, Jr., Edmund Newton Harvey, Peter Hegemann, Vernon Willard Hughes, Frederic Eugene Ives, Herbert E. Ives, David L. Jauncey, Joseph J. Katz, James Edward Keeler, Kenneth I. Kellerman, Willis E. Lamb, Jr., Edwin Herbert Land, Samuel Pierpont Langley, Irving Langmuir, Thomas H. Legg, Robert B. Leighton, Jack L. Locke, Frank J. Low, Theodore Lyman, John C. Mather, William David McElroy, Charles W. McLeish, Charles Edward Mees, Albert Abraham Michelson, Gero Miesenböck, Robert Mills, James M. Moran, Jr., Georg Nagel, Edward Leamington Nichols, Ernest Fox Nichols, James R. Norris, Sam Nunn, Lars Onsager, William J. Perry, Edward Charles Pickering, John Stanley Plaskett, Norman Foster Ramsey, Roger S. Richards, Alan E. E. Rogers, Bruno Rossi, Henry Augustus Rowland, Henry Norris Russell, Lewis Morris Rutherford, Maarten Schmidt, Harlow Shapley, George P. Shultz, Joel Stebbins, Elihu Thomson, Charles Hard Townes, Daniel Treadwell, Cornelis B. Van Niel, George Wald, Gregorio Weber, E. Bright Wilson, Robert Williams Wood, Chen Ning Yang, Jul Lin Yen, and Vladimir Kosma Zworykin.

SARTON AWARD FOR POETRY

Presented for the first time in 2008, the Sarton Award for Poetry recognizes emerging poets of exceptional promise and distinguished achievement. It was established by a fund created by Academy Fellow May Sarton, a poet, novelist, and teacher who encouraged the work of young poets during her lifetime. Recipients of the Sarton Award for Poetry include Arda Collins, Matthew Dickman, Dawn Lundy Martin, Meghan O'Rourke, Vanesha Pravin, and Matthew Zapruder.

SARTON PRIZE FOR THE HISTORY OF SCIENCE

Presented for the first time in 1999, the Sarton Prize for the History of Science recognizes early-career historians of science whose work demonstrates exceptional promise. It was established by a fund created by Academy Fellow May Sarton to honor the memory of her father, Academy Fellow George Sarton, a preeminent leader in the field of history of science. Recipients of the Sarton Prize for the History of Science include Melinda Baldwin, Jenny Bulstrode, and Cristina Chimisso.

SCHOLAR-PATRIOT AWARD

This award, established in 2000, recognizes the extraordinary contributions of individuals who share the commitment of the Academy's Founders, a group of patriots who devoted their lives to promoting the arts and sciences in service to the nation. Recipients of the Scholar-Patriot Award include Leo L. Beranek, Louis W. Cabot, William T. Golden, Edward M. Kennedy, Yo-Yo Ma, and Morton L. Mandel.

TALCOTT PARSONS PRIZE

First awarded in 1974, this prize was established to honor the noted sociologist and former president of the Academy. It is awarded for contributions to the social sciences, broadly defined. Recipients of the Talcott Parsons Prize include Daniel Bell, Robert Dahl, Clifford Geertz, Joseph H. Greenberg, Albert Hirschman, Daniel Kahneman, William Labov, Robert K. Merton, Joan Wallach Scott, William Julius Wilson, and C. Vann Woodward.

Members Elected in 2021, by Class & Section

A list of all active Members, arranged by Class and Section, Affiliation, or Year of Election, is available on the Academy's website at www.amacad.org/directory. IHM designates an International Honorary Member.

Class I Mathematical and Physical Sciences

SECTION 1: Mathematics, Applied Mathematics, and Statistics

Eliashberg, Yakov
Stanford University

Farb, Benson
University of Chicago

Masmoudi, Nader
New York University

Ramanan, Kavita
Brown University

Sheffield, Scott
Massachusetts Institute
of Technology

Smith, Karen
University of Michigan

Wilkinson, Amie
University of Chicago

SECTION 2: Physics

Byer, Robert
Stanford University

Cao, Hui
Yale University

Gambini, Rodolfo (IHM)
Universidad de la República

Incandela, Joseph
University of California,
Santa Barbara

Johnson, Anthony
University of Maryland,
Baltimore County

Mason, Nadya
University of Illinois at
Urbana-Champaign

Segev, Mordechai (IHM)
Technion-Israel Institute
of Technology

Vishwanath, Ashvin
Harvard University

Yacoby, Amir
Harvard University

SECTION 3: Chemistry

Bowman-James, Kristin
University of Kansas

Diebold, Ulrike (IHM)
Technical University Vienna

Eisenstein, Odile (IHM)
University of Montpellier

Fierke, Carol
Brandeis University

Hupp, Joseph
Northwestern University

Jones, William
University of Rochester

Makri, Nancy
University of Illinois at
Urbana-Champaign

Molinero, Valeria
University of Utah

Nozaki, Kyoko (IHM)
University of Tokyo

Peters, Jonas
California Institute
of Technology

Reisler, Hanna
University of Southern
California

Robinson, Carol (IHM)
University of Oxford

SECTION 4: Astronomy, Astrophysics, and Earth Sciences

Battisti, David
University of Washington

Brantley, Susan
Pennsylvania State
University

Kalogera, Vicky
Northwestern University

Olinto, Angela
University of Chicago

Perry, Malcolm (IHM)
University of Cambridge

Raphael, Marilyn
University of California,
Los Angeles

Shen, Yanan (IHM)
University of Science and
Technology of China

Tarter, Jill
SETI Institute

Thompson, Anne
NASA; Goddard Space
Flight Center

SECTION 5: Engineering and Technology

Bao, Zhenan
Stanford University

Barabino, Gilda
Olin College of Engineering

Broadbelt, Linda
Northwestern University

Griffith, Linda
Massachusetts Institute
of Technology

Hubbell, Jeffrey
University of Chicago

Kumar, Vijay
University of Pennsylvania

Meng, Teresa
Stanford University

Schweizer, Kenneth
University of Illinois at
Urbana-Champaign

Smith, Sonya
Howard University

Takeuchi, Esther
Stony Brook University

SECTION 6: Computer Sciences

Hassabis, Demis (IHM)
DeepMind

Isbell, Charles
Georgia Institute
of Technology

Li, Fei-Fei
Stanford University

Médard, Muriel
Massachusetts Institute
of Technology

Savage, Stefan
University of California,
San Diego

Seltzer, Margo
University of
British Columbia

Spielman, Daniel
Yale University

Class II Biological Sciences

SECTION 1: Biochemistry, Biophysics, and Molecular Biology

Barkan, Alice
University of Oregon

Breaker, Ronald
Yale University

Brunger, Axel
Stanford University

Dent, Sharon
University of Texas
MD Anderson Cancer Center

Horwich, Arthur
Yale School of Medicine

Samson, Leona
Massachusetts Institute
of Technology

West, Stephen (IHM)
Francis Crick Institute

Yan, Nieng (IHM)
Princeton University

Zaret, Kenneth
University of Pennsylvania
Perelman School of Medicine

SECTION 2: Cellular and Developmental Biology

Bar-Sagi, Dafna
New York University
Grossman School
of Medicine

Davis, Roger
University of Massachusetts
Medical School

Hanson, Maureen
Cornell University

Jäckle, Herbert (IHM)
Max Planck Institute for
Biophysical Chemistry

Jinks-Robertson, Sue
Duke University

Langford, George
Syracuse University

Nunnari, Jodi
University of California,
Davis

Youle, Richard
National Institutes of Health

Zerial, Marino (IHM)
Max Planck Institute of
Molecular Cell Biology
and Genetics

SECTION 3: Neurosciences

Grafstein, Bernice
Weill Cornell Medicine

Moore, Tirin
Stanford University

Segal, Rosalind
Harvard Medical School;
Dana-Farber Cancer Institute

Sigworth, Frederick
Yale School of Medicine

Tsai, Li-Huei
Massachusetts Institute
of Technology

Woolley, Catherine
Northwestern University

SECTION 4: Evolution and Ecology

Boersma, P. Dee
University of Washington

Estes, James
University of California,
Santa Cruz

Hayes, Tyrone
University of California,
Berkeley

Kimmerer, Robin
SUNY College of
Environmental Science
and Forestry

Lohmann, Lúcia (IHM)
University of São Paulo

Parker, Patricia
University of Missouri-
St. Louis

Sork, Victoria
University of California,
Los Angeles

Tishkoff, Sarah
University of Pennsylvania

Vermeij, Geerat
University of California,
Davis

Yoder, Anne
Duke University

SECTION 5: Medical Sciences

Boulware, L. Ebony
Duke University School
of Medicine

Brown, Nancy
Yale School of Medicine

Carmeliet, Peter (IHM)
Katholieke Universiteit
Leuven

Gupta, Sanjay
Cable News Network;
Emory University
School of Medicine;
Grady Memorial Hospital

Klotman, Mary
Duke University School
of Medicine

McNally, Elizabeth
Northwestern University
Feinberg School of Medicine

Norton, Larry
Memorial Sloan Kettering
Cancer Center

Plotkin, Stanley
University of Pennsylvania
Perelman School of Medicine

Rotimi, Charles
National Institutes of Health

SECTION 6: Microbiology and Immunology

Ahmed, Rafi
Emory University School
of Medicine

Bennett, Joan
Rutgers, The State University
of New Jersey

Boehm, Thomas (IHM)
Max Planck Institute of
Immunobiology and
Epigenetics

Gamarnik, Andrea (IHM)
Fundación Instituto Leloir

Goldrath, Ananda
University of California,
San Diego

Iwasaki, Akiko
Yale School of Medicine

Marraffini, Luciano
Rockefeller University

Newman, Dianne
California Institute
of Technology

Wu, Hao
Harvard Medical School

Class III Social Sciences

SECTION 1: Psychological Sciences

Barch, Deanna
Washington University
in St. Louis

Casey, BJ
Yale University

Hinshaw, Stephen
University of California,
Berkeley

Johnson, Marcia
Yale University

Kroll, Judith
University of California,
Irvine

Masten, Ann
University of Minnesota

Shelton, J. Nicole
Princeton University

Turkheimer, Eric
University of Virginia

SECTION 2: Economics

Bergemann, Dirk
Yale University

DellaVigna, Stefano
University of California,
Berkeley

Feenstra, Robert
University of California,
Davis

McCloskey, Deirdre
University of Illinois
at Chicago

Stantcheva, Stefanie
Harvard University

Vissing-Jørgensen, Annette
University of California,
Berkeley

Washington, Ebonya
Yale University

SECTION 3: Political Science

Fortna, Virginia Page
Columbia University

Geddes, Barbara
University of California,
Los Angeles

Hanchard, Michael
University of Pennsylvania

Huber, Gregory
Yale University

Martin, Andrew
Washington University
in St. Louis

Posner, Daniel
University of California,
Los Angeles

Trask, Haunani-Kay †
University of Hawaii

Yashar, Deborah
Princeton University

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The Washington Post;
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Smithsonian Institution

Slavin, Peter
Massachusetts General Hospital

Weiss, Daniel
Metropolitan Museum of Art

† *Deceased*

In 2021, the following individuals became inactive members of the Academy:

Michael John Laver
Sheldon I. Pollock
Daniel Wyler Stroock

Keith S. Thomson
Timothy Douglas White

DECEASED MEMBERS

Notice received through November 1, 2021

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William R. Atchley
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Peter Beak
Stephen Davison Bechtel, Jr.
Aaron T. Beck
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Sally Falk Moore
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Robert Alexander Mundell
Tetsuo Najita
Roddam Narasimha
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Ei-ichi Negishi
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Colin Luther Powell
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Leslie Ungerleider
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In Memoriam: Stephen R. Graubard

Stephen R. Graubard (December 5, 1924–May 27, 2021) was a widely published historian with many books on the history and accomplishments of American presidents. He taught at Harvard University and later at Brown University, where he co-led a senior seminar with Vartan Gregorian, then president of Brown. At the Academy, he served for a short time as Managing Editor of *Dædalus* (1960–1961) and then for almost forty years as Editor of *Dædalus* (1961–2000) and as Editor of the Academy (1963–2000). He was elected a Fellow of the American Academy in 1962.

When Stephen first joined *Dædalus*, the Academy had only been publishing the journal as a quarterly for a few years, with its first quarterly issue released in Winter 1958 (on “Science and the Modern World View”). The aim of the journal—as noted in that issue—was rather unique for its time: “to give the intellectual community a strong voice of its own” and to be “a medium in which leading scholars in all fields can address one another. . . . *Dædalus* can serve as an instrument for focusing our attention again on that which does, or should, make us members of one community.”

This aim to help connect different elements of our culture with one another was, of course, not foreign to the Academy, which since its eighteenth-century founding had worked to connect the Arts and the Sciences. Moreover, that animating spirit had continued in the Academy’s various activities and was evoked in an address of President Howard Mumford Jones, who expressed the hope of overcoming “the fractation of knowledge” through encouraging the “pressures toward unity,” for which the Academy, by embracing members of all disciplines and professions, seemed particularly well suited. Stephen understood that leitmotif from the beginning of his generous and long service to the Academy.

It is appropriate to give some sense of what it meant for Stephen to be in charge of *Dædalus*—many of those

same responsibilities of publishing the journal remain today. The details Stephen and an assistant had to attend to, in order for an issue to land safely in the hands of its reader, are far more numerous and complex than that reader could guess. After consulting with a Program Committee and the Board of Editors on a given topic, about a dozen authors had to be found and engaged, and later assembled (usually in Cambridge) for a discussion of their draft essays. Then the sometimes difficult negotiations on the final versions had to happen (how do you edit Hannah Arendt?). An issue of *Dædalus* like “The Woman in America” (Spring 1964) or “The Negro American” (double issue, Fall 1965 and Winter 1966, with an introduction by Lyndon B. Johnson) was thought of grappling with ideas then just coming over the horizon.

The rest may be “obvious.” Funding had to be found to support the meetings, printing, and distribution of issues to the Fellows of the Academy and others all over the country; at its peak, that “little journal” had a circulation of over 60,000 copies. Finally, Stephen had to find publishers who, often with his additional editing, brought the majority of *Dædalus* issues out as published books. A few years may have elapsed between the original idea for an issue of the journal and the final result, but Stephen was involved in every step along the way. He will be remembered for his extraordinary leadership of *Dædalus*.

Rest in peace.

Gerald Holton

Mallinckrodt Professor of Physics and
Professor of the History of Science, Emeritus
Harvard University
Editor of *Dædalus* (1958–1961)

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