Catalyzing community leaders, current and future scientists, and the general public to build a better scientific ecosystem, society, and world

PROGRAM

PROSPECTUS

2023

www.aspeninstitute.org/science
ABOUT THE ASPEN INSTITUTE

At the Aspen Institute, we ignite human potential to build understanding and create new possibilities for a better world.

The Aspen Institute is a global nonprofit organization committed to realizing a free, just, and equitable society. Founded in 1949, the Institute drives change through dialogue, leadership, and action to help solve the most important challenges facing the United States and the world.

- We bring together thoughtful people with diverse backgrounds and points of view.
- We cultivate and support values-based, purpose-driven leaders in many communities.
- We turn ideas into action and impact for individuals and society.

The Aspen Institute has earned a reputation for gathering diverse, nonpartisan thought leaders, creatives, scholars, and members of the public to address some of the world’s most complex problems. But the goal of these convenings is to have an impact beyond the conference room; they are designed to provoke, further, and improve actions taken in the real world.
The world is more polarized than ever. Science—especially when applied to questions about the environment, medical interventions, and new technologies—has become a splinter between people and between communities.

To overcome these divides, the Aspen Institute launched the Science & Society Program in 2019 with seed support from the Alfred P. Sloan Foundation and Johnson & Johnson. Housed within the Aspen Institute Health, Medicine and Society Program, Science & Society serves as a laboratory to test ideas and approaches that help explain, connect, and maximize the benefits of science for public good.

The primary audiences for our work are community leaders, science communicators, current and future scientists, and the general public. We leverage the established assets, networks, and platforms of the Aspen Institute to convene and mobilize these groups to build bridges between them.

Led by a core staff of trained scientists, the program is an early responder to emerging trends and is on the pulse of critical issues at the intersection of science and society.
3 GUIDING PILLARS

The first three years of the program focused on engaging with experts, interacting with the public, and running experiments that resulted in the establishment of three programmatic pillars:

1. **Global Science**
   *How can we accelerate the global impact of science to break down borders and contribute to our collective humanity?*

2. **Science & Social Justice**
   *How can we use science to create a fair and equitable society and develop solutions to communities’ most pressing challenges?*

3. **Public Trust in Science**
   *How can we strengthen the public’s relationship with science to generate societal good within and across communities?*
5 CORE VALUES & HOW WE WORK

Our efforts are anchored in five core values of science:

**Integrity**
Science offers methodical pursuits to understand the natural world

**Ethics**
Scientists and the public share responsibility to implement science for the benefit of humanity

**Hope**
Scientific innovation will make the world safer, healthier, and more connected

**Trust**
The rigor of data and evidence leads to confidence in discovery

**Equity**
A diverse and inclusive scientific workforce is essential to solve the world’s complex problems

At our core, we at the Aspen Institute Science & Society Program believe that science is a guiding force for public good. To advance this mission, we work from the perspective that science is multi-faceted and science is for everyone.

*Our work at the intersection of science and society enables us to be the go-to program for journalists, current and future scientists, science communicators, policymakers, and the public.*

To this end, we are committed to presenting accessible and digestible information that combats misinformation while also fostering appreciation for science.
WHO WE ARE

Aaron Mertz, Ph.D., is a biophysicist and educator and has been recognized internationally for his laboratory research and advocacy for underrepresented groups in science. He joined the Aspen Institute in 2019 as the founding Director of the Science & Society Program after a postdoctoral fellowship in biology at the Rockefeller University and graduate studies in physics at Yale University and the history of science at the University of Oxford as a Rhodes Scholar.

Jylana Sheats, Ph.D., M.P.H., is an applied behavior scientist who works across sectors to improve public and population health and address health disparities. Her efforts have focused on solutions to address health behaviors and outcomes. After undergraduate and graduate studies at Spelman College, Tulane University School of Public Health and Tropical Medicine, and Indiana University, she completed a postdoctoral fellowship in behavioral medicine at Stanford School of Medicine.

Nataliya Shulga, Ph.D., is a molecular biologist, educator, and policymaker who graduated in biology from the Taras Shevchenko Kyiv National University, Ukraine. She received her Ph.D. at the Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine. At the University of Rochester, she made substantial contributions to the field of nuclear transport. She assisted in education and science reform in Ukraine and is a lifelong advocate of STEM education, science popularization, and science policy improvement at the national and international level.

Hassan Farah is a multidisciplinary Ph.D. candidate at Virginia Tech researching the biomechanics of balance and walking for children with hemiplegic cerebral palsy. Since his time as an undergraduate at the University of Arizona, Hassan has developed and directed leadership training programs, organized large-scale demonstrations and negotiations as a student activist, and has been committed to mentorship. He seeks to develop innovative, science education programs that are rooted in social justice for marginalized students.

Sejal Goud is a rising junior at Princeton University, where she is pursuing studies in public policy and international affairs. She is committed to leveraging her backgrounds in advocacy and journalism to promote the link between civic engagement and science communication.
The Science & Society Program is guided by an Advisory Council comprised of experts and thought leaders who engage with science and society from myriad angles: academia, industry, education, journalism, public institutions, advocacy, finance, and the arts. Together, this group helps the program:

- **Define critical societal issues** that cause gaps in public trust in, and/or understanding of, science;
- **Delineate the obstacles** toward realizing a more diverse and creative scientific workforce;
- **Brainstorm feasible strategies** to address these challenges; and
- **Identify** potential strategic and collaborative partners to enact change.

**Elizabeth Blackburn, Ph.D.**
*Co-Chair*
Molecular biologist, Nobel Laureate in Physiology or Medicine, UCSF Prof. Emerita of Biochemistry and Biophysics, former Salk Institute Pres.

**Arlene Blum, Ph.D.**
Biophysical chemist, author, mountaineer, Green Science Policy Institute Executive Director

**Seema Kumar**
*Co-Chair*
Chief Executive Officer, Cure; former Johnson & Johnson Global Head, Office of Innovation, Public Health, and Scientific Engagement

**Maya Ajmera**
President and CEO of Society for Science & the Public and Publisher of its award-winning magazine Science News

**Christiane Boezio**
Takeda Associate Director of Science Philanthropy

**Nsikan Akpan, Ph.D.**
*(Co-Chair and Member 2020–2021)*
New York Public Radio Health and Science Editor

**Joy Buolamwini, Ph.D.**
Poet of code who uses art and research to illuminate social implications of AI, Algorithmic Justice League Founder, Forbes Top 50 Women in Tech (youngest)

**Valerie Conn**
Founder and Principal of Future Science Now and past President and Executive Director of Science Philanthropy Alliance
ADVISORY COUNCIL
continued

**Susan Desmond-Hellmann, M.D.**
Oncologist, former Gates Foundation CEO, former UCSF Chancellor

**Judy Gradwohl**
San Diego Natural History Museum President and CEO

**Lauren Gunderson**
Playwright and author bringing stories of science into the spotlight, currently recognized as America’s most produced living playwright

**Margaret (Peggy) Hamburg, M.D.**
Former American Association for the Advancement of Science (AAAS) President and Chair of the Board, former FDA Commissioner

**Eric Horvitz, M.D., Ph.D.**
Computer scientist, Microsoft Chief Scientific Officer

**Ana Humphrey**
Regeneron Science Talent Search Winner, Harvard University junior

**Mae Jemison, M.D.**
Engineer, physician, former NASA astronaut, 100 Year Starship (100YSS) project Principal

**Valerie Camille Jones, Ed.D.**
Atlanta mathematics teacher, Presidential Award for Excellence in Mathematics and Science Teaching recipient

**Robert Klitzman, M.D.**
Psychiatrist, bioethicist, Columbia University Professor and Director of the Masters of Bioethics Program

**Gary Lauder**
Venture capitalist, Lauder Partners LLC Managing Director

**David Michaels, Ph.D.**
Epidemiologist, former OSHA Assistant Secretary, author of *The Triumph of Doubt* and *Doubt Is Their Product*

**Liz Neeley**
Marine biologist, Founder & CEO of Liminal, past Story Collider Executive Director

**Joe Palca, Ph.D.**
Former National Public Radio (NPR) science correspondent, National Association of Science Writers past president

**Manu Prakash, Ph.D.**
Bioengineer, Stanford University Associate Professor, MacArthur Fellow, Foldscope co-inventor

**Cynthia Rosenzweig, Ph.D.**
Climatologist, NASA Goddard Institute for Space Studies Senior Research Scientist and Climate Impacts Group head
# CURRENT & PAST FUNDERS

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<tr>
<th>Lead Program Sponsor</th>
<th>Founding Program Support</th>
<th>Current Program Support</th>
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## Current Project-Specific Support

- AMGEN Foundation
- 3M
- Samueli Foundation
- Burroughs Wellcome Fund
- LEAP (Learning the Earth with Artificial Intelligence and Physics)
- Carson Family Charitable Trust

## Past Program Support

- Rita Allen Foundation
- National Science Foundation
- Rick Stamberger
  - Paul Beirne Foundation
- Irma L. and Abram S. Croll Charitable Trust

## Past Project-Specific Support

- The Kavli Foundation
- Gordon and Betty Moore Foundation
- Genentech
- DeepMind
- Microsoft
- HHMI (Howard Hughes Medical Institute)
- IBM
- Chan Zuckerberg Initiative
- Lyda Hill Philanthropies
- Science Philanthropy Alliance
- ANNUAL REVIEWS
- leaps.org
- EquiTech Futures
- John Templeton Foundation
- QUESTAC DE CIENCIA
- EeroQ
- IQBit
- ZAPATA
- Laura & Gary Lauder Family Venture Philanthropy Fund
- Hurford Foundation
- Emily Gold Mears
“We’re focused on combining heart, science and ingenuity to profoundly change the trajectory of health for humanity. Demystifying and championing the tremendous value of science—and diversity in science—to society are of paramount importance not just for our company, but also for creating a better world.”

“Johnson & Johnson is thrilled to partner with the Aspen Institute to engage the hearts and minds of people on science and innovation and to showcase the importance of diversity and inclusion in driving innovation forward.”

– Advisory Council Co-Chair Seema Kumar, CEO of Cure and former Vice President of Innovation, Global Health, and Policy Communication at Johnson & Johnson

“Many of the most difficult challenges humanity now faces will require essential contributions from science if they are to be solved. Thus the lack of confidence in science and scientists expressed by many people, across the political spectrum, is a genuine threat to human flourishing if not our very survival. The Science and Society Program seeks to address this critical problem by creatively and inclusively building bridges to span the growing divide between science and the public at large. This work has never been more important than it is today.”

– Adam Falk, Ph.D., President at the Alfred P. Sloan Foundation
GLOBAL SCIENCE

In order for science to reach its fullest potential of bridging societal divides, it must respect global cooperation in both producing and applying science.

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<th>ASPEN GLOBAL CONGRESS ON SCIENTIFIC THINKING &amp; ACTION</th>
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<td>This conference gathered 100 thought leaders from 50+ countries implementing scientific and rational approaches to local and global policy making and education. Expert presentations, breakout sessions, and large-group discussions focused on themes transcending geographical boundaries: science denial, science popularization, vaccines, climate change, medicine, and food biotechnologies.</td>
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<th>GLOBAL CONVERSATIONS ON SCIENCE AND MISINFORMATION</th>
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<td>This documentary series on PBS, satellite television, and streaming features the perspectives of leading science experts from Japan, China, Philippines, India, Saudi Arabia, Sudan, Germany, Italy, France, Brazil, and the United States to speak about science denial in a “post-truth” era, climate change, disinformation, propaganda, the paranormal, and natural disasters.</td>
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<th>INTERNATIONAL INITIATIVE FOR PURE SCIENCE</th>
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<td>Our newly available report and accompanying events on pure science, in collaboration with the 13 other countries where the Aspen Institute has international partners, assess the current state of basic science around the world, create a forum for discussion among scientific leaders, and provide guidance on how basic science can be supported and advanced internationally.</td>
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SCIENCE & SOCIAL JUSTICE

Many of society’s most pressing matters are scientific. Activists around the world have been at the forefront of these issues and are spurring scientists to consider the connection between urgent global matters and the experiences of marginalized populations.

**OUR FUTURE IS SCIENCE**

This national youth initiative exposes talented and passionate high-school students who identify as BIPOC, reside in rural communities, and/or are of low income to science education and careers through near-peer mentorship with graduate students, a bespoke STEM and social justice curriculum including a capstone project, a guest speaker series, and a national educational campaign.

**A BLUEPRINT FOR EQUITABLE AI**

Following early distribution at the World Economic Forum (Davos), this publicly available report in partnership with AI lab DeepMind has garnered attention for its timely perspectives on building and distributing equitable AI. The report is the product of discussions between international, multidisciplinary experts including technologists, legal scholars, policy advocates, journalists, academics, and auditors.

**GLOBAL NETWORK FOR COMMUNITY SCIENCE**

With presenters from the Arctic, Australia, Botswana, the Caribbean, China, Ecuador, Israel, India, Iraq, New Zealand, and the United States, this workshop built a collaborative, international, and vibrant network of partners committed to science research and outreach through communities: conducting scientific research that is deeply embedded in local communities and that respects local expertise.
PUBLIC TRUST IN SCIENCE

To have access and to make use of science and innovation, the public must accept science over pseudoscience and misinformation.

SIX DEGREES FROM SCIENCE

This upcoming feature-length documentary film will immerse us in the lives of passionate scientists as they navigate environments where competition for resources is fierce, institutional barriers abound, and their focus is directed away from science to survival. Yet human health is dependent on their success and perseverance.

DISCOVER DISCOVERY CAMPAIGN

Our public campaign showcases stories of how scientists discovered discovery itself—and science more broadly. Our goal is for youth to be inspired by career possibilities and for the public to see humanizing sides of scientists, thereby garnering greater public trust in scientists’ work. Scientists also learn to tell their stories beyond the discoveries they are currently making.

RECENT EVENTS AND PUBLICATIONS

Past and upcoming public symposia, summits, and writings have explored topics such as COVID-19 vaccines, space travel, personal genetics, cosmetic products, artificial intelligence, quantum computing, climate change, “zombie science,” scientific uncertainty, and science storytelling. Publications consist of digital magazines, reports, op-eds, and blog posts.
As a part of the 501(c)(3) non-profit Aspen Institute, Science & Society is made possible by generous grants and donations from individuals, foundations, and corporations.

If you or your organization would be interested in partnering with the Aspen Institute Science & Society Program and furthering our work at this critical juncture, please find our contact information on the next page. For updates on our latest projects and invitations to our public events, we invite you to join the Aspen Institute Science & Society Program mailing list below.

“While the Aspen Institute has long recognized the important role of science in society, the time is right for a more focused effort.”

“With science under fire from various sectors of our society, the work of this new program will be all the more timely and impactful.”

– Elliot Gerson, Executive Vice President for Policy, Public, and International Programs at the Aspen Institute