

Cover Memo: Volume 18, Issue 3, Special Issue on Shaping the Future of Science Policy

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This Special Issue of the Journal of Science Policy & Governance has been produced in partnership with the American Association for the Advancement of Science (AAAS) and is sponsored by [The Kavli Foundation](#).

We are delighted to introduce Volume 18, Issue 3, of the *Journal of Science Policy & Governance* ([JSPG](#)) which is aptly themed [Science, The Endless Frontier: Shaping the Future of Science Policy](#). This special volume is produced in collaboration with the American Association for the Advancement of Science ([AAAS](#)) and sponsored by [The Kavli Foundation](#).

Like Vannevar Bush in his 1945 opus *Science, The Endless Frontier*, the articles selected for publication in this volume are inspired by an exploration of how the scientific enterprise, and those who support it, can think big and long-term about the future of science. We applaud the published authors for their important contributions to reimagining and reinvigorating the science and innovation enterprise amid new challenges and opportunities in the years ahead.

Science, The Endless Frontier provided a postwar policy framework that envisioned a new national partnership among government, academia, and industry to harness basic scientific knowledge for security and well-being. Bush's report-turned-roadmap has served as the basis for our investment and success in advancing basic research into treatments and cures, economic prosperity, and national security during the past seventy-five years — but it's time for an update.

Today's science and innovation ecosystem is far more complex, and the federal role in that system and in society far more varied, than the simple story Bush presented. Indeed, some of the greatest instances of value and impact delivered by the federal R&D system only bear minimal resemblance to his vision. The nation, and world, have changed dramatically in the last 75 years. Today, of course, we are thinking about the future of science against the backdrop of a global pandemic, a racial reckoning, climate change, new international relationships (from conflict to collaboration), and deep domestic social divisions.

The scientific enterprise, and perhaps society, has evolved beyond anything Vannevar Bush could have imagined. To respond to the changing nature of science and societal realities, the United States should update Bush's framework to ensure that the research enterprise is building a thriving, equitable, and just economy and society. This includes supporting opportunities for all by addressing systemic challenges and providing the evidence base to inform national policymaking. To advance science and serve society with an emphasis on full spectrum innovation including fundamental science, mission-driven technology, and useful knowledge programs and collaborations that meet local, national, and international needs, we need all ideas and voices at the table.

AAAS and The Kavli Foundation thank all those who submitted articles for consideration in this special volume. Your thoughtfulness and ideas inspire hope and will undoubtedly empower science to innovate and flourish in the next seventy-five years and beyond.

Dr. Sudip Parikh, CEO, American Association for the Advancement of Science

Dr. Cynthia M. Friend, President, The Kavli Foundation

Sudip Parikh became the 19th AAAS CEO and executive publisher of the *Science* family of journals in January 2020. The son of Indian immigrants who worked in the textile and furniture manufacturing plants of North Carolina, Parikh completed undergraduate studies at the University of North Carolina at Chapel Hill. Early in his career Parikh was a Presidential Management Intern at the NIH and was awarded a National Science Foundation Graduate Research Fellowship while earning his Ph.D. in macromolecular structure and chemistry from the Scripps Research Institute in La Jolla, California. He has spent two decades at the nexus of science, policy, and business and is an active member of the scientific advocacy community. Parikh serves as a board member and officer for several impactful organizations, including Research!America, Friends of Cancer Research, and ACT for NIH.

Cynthia M. Friend is president of The Kavli Foundation. Previously, Dr. Friend was a member of Harvard University faculty, where she served in several leadership roles, including Chair of the Department of Chemistry and Chemical Biology and Associate Dean of the Faculty of Arts and Sciences. She was the first female chair and first female professor in chemistry at Harvard. Dr. Friend also served as Director of The Rowland Institute and as Associate Lab Director at SLAC. She has published over 300 papers; her lab at Harvard focused on addressing global challenges in reducing energy costs and developing alternative energy sources. She was a research advisor to 75 graduate students and postdoctoral researchers and led efforts to change policies in universities and other organizations to promote diversity. She is a member of the National Academy of Sciences and a fellow of the American Academy of Arts and Sciences, American Chemical Society and American Association for the Advancement of Science. Dr. Friend currently serves as Vice Chair of the DOE's Basic Energy Sciences Advisory Committee.