

The National Academies of **SCIENCES • ENGINEERING • MEDICINE**

OPEN SCHOLARSHIP PRIORITIES AND NEXT STEPS: PUBLIC WORKSHOP

DECEMBER 5, 2022

SPEAKER BIO SKETCHES

WELCOME AND OVERVIEW

THOMAS KALIL is Chief Innovation Officer at Schmidt Futures. In this role, Mr. Kalil leads initiatives to harness technology for societal challenges, improve science policy, and identify and pursue 21st-century moonshots. Prior to Schmidt Futures, Mr. Kalil served in the White House for two Presidents (Obama and Clinton), helping to design and launch national science and technology initiatives in areas such as nanotechnology, the BRAIN initiative, data science, materials by design, robotics, commercial space, high-speed networks, access to capital for startups, high-skill immigration, STEM education, learning technology, startup ecosystems, and the federal use of incentive prizes. From 2001 to 2008, Mr. Kalil was Special Assistant to the Chancellor for Science and Technology at University of California, Berkeley. Mr. Kalil received a B.A. in political science and international economics from the University of Wisconsin at Madison and completed graduate work at the Fletcher School of Law and Diplomacy.

KEITH R. YAMAMOTO (NAS/NAM) is University of California, San Francisco (UCSF) vice chancellor for science policy and strategy, director of precision medicine for UCSF, and professor of cellular and molecular pharmacology at UCSF. He is a leading researcher investigating transcriptional regulation by nuclear receptors, which mediate the actions of essential hormones and cellular signals; he uses mechanistic and systems approaches to pursue these problems in pure molecules, cells and whole organisms. He has led or served on numerous national committees focused on public and scientific policy, public understanding and support of biological research, and science education; he chairs the Coalition for the Life Sciences, and sits on the National Academy of Medicine Council and the National Academy of Sciences (NAS) Division of Earth and Life Studies Advisory Committee. As Chair of the NAS Board on Life Sciences, he created the study committee that produced “Toward Precision Medicine: Building a Knowledge Network for Biomedical Research and a New Taxonomy of Disease,” the report that enunciated the precision medicine concept, and he has helped to lead efforts in the White House, in Congress, in Sacramento and at UCSF to implement it. He has chaired or served on many committees that oversee training and the biomedical workforce, research funding, and the process of peer review and the policies that govern it at the National Institutes of Health. He is a member of the advisory board for Lawrence Berkeley National Laboratory and the board of directors of Research!America. He was elected to the National Academy of Sciences, the National Academy of Medicine, the American Academy of Arts and Sciences, and the American Academy of Microbiology, and is a fellow of the American Association for the Advancement of Science.

GREG TANANBAUM is the Project Coordinator for the Open Research Funders Group (ORFG), a partnership of funding organizations committed to the open sharing of research outputs. He helped conceive of and launch the ORFG, and he has served as its leader since its inception in 2016. In this capacity, Mr. Tananbaum coordinates the open science activities of the 13-member ORFG, who have a combined \$108 billion in assets. He also serves as a Consultant for the Scholarly Publishing and Academic Resources Coalition (SPARC). On behalf of SPARC, he has developed resources pertaining to big deal subscription cancellations, the conversion of journals from subscription-based to open access, campus-based open access funds, and open data policies. Mr. Tananbaum has over 20 years’ experience

in scholarly communications, academic publishing, and technology. Mr. Tananbaum has served as President of The Berkeley Electronic Press, as well as Director of Product Marketing for EndNote. He has been as an invited speaker at dozens of conferences, including the American Library Association, the Society for Scholarly Publishing, the Association of Professional and Learned Society Publishers, and Online Information UK. He holds a Master's Degree from the London School of Economics and a B.A. from Yale University.

HIGHER EDUCATION PERSPECTIVES/HELIOS UPDATE

GEETA K. SWAMY is a professor of Obstetrics & Gynecology, Division of Maternal-Fetal Medicine at Duke University and serves as Associate Vice President for Research for Duke University and the Vice Dean for Scientific Integrity for the School of Medicine. Dr. Swamy works with leaders across campus to provide a consistent University vision for scientific integrity standards and expectations and will drive efforts to ensure the advancement of scientific integrity across Duke University and the School of Medicine. A highly accomplished clinician-scientist, Dr. Swamy specializes in perinatal infection and maternal immunization. She is the principal investigator on numerous grants from the NIH, CDC, and other funding sources and has published more than 100 articles. She received her medical degree from the University of North Carolina at Chapel Hill and completed residency training in obstetrics and gynecology at the University of Pittsburgh and a fellowship in Maternal-Fetal Medicine at Duke University.

LaKEISHA HARRIS, Ph.D. is Dean, School of Graduate Studies and Research at University of Maryland Eastern Shore. The University of Maryland Eastern Shore (UMES) is a public historically black land-grant research university in Princess Anne, Maryland. It is part of the University System of Maryland. Dr. Harrison received her Doctor of Philosophy (Ph.D.), Rehabilitation Counselor Education from the University of Iowa, her Master of Rehabilitation Counseling from Bowling Green State University and her B.S. in Psychology from Bowie State University.

ALICIA SALAZ, Ed.D; MLIS, is vice provost and university librarian at the University of Oregon, co-lead for the HELIOS shared open scholarship infrastructure working group, and serves on the board of directors for the Orbis-Cascade Alliance, a consortium of 38 college and academic libraries. She is the former associate dean for research and access services at Carnegie Mellon University, where she oversaw the university's open scholarship program. Salaz has over 15 years of professional experience in information science and libraries administration in the United States and abroad, having previously held appointments in Dubai and Doha, and earned her doctorate in higher education from the University of Liverpool. She has studied and written extensively on information science and transnational higher education topics but is best known for her worldwide research on the impacts of e-reading on adult learning. She is a member of the publications committee of the Association for Information Science & Technology and a council member for the Association of Research Libraries.

ATHENA JACKSON began her role as Dean of Libraries and Elizabeth D. Rockwell Chair at the University of Houston on February 15, 2021. She was most recently the Director of Library Special Collections at the University of California, Los Angeles. Athena has broad experience empowering teams and individuals to engage in contemporary access, authentic inclusion, and transformative learning opportunities and has a passion for working with faculty, staff, students, donors, researchers, and communities. Athena was previously Dorothy Foehr Huck Chair and Head of the Eberly Family Special Collections Library at Penn State University. Before that, Athena served as Associate Director of Special Collections at the University of Michigan Special Collections Library. At Michigan, Athena managed Reader Services and Collection Services and participated in the planning, policy development, and priority-setting for the special collections library. Athena has previously served as Special Collections

Librarian at the University of Miami. She was also the Education and Outreach Librarian and Project Manager/Librarian for the Digitizing Louisiana Newspapers Project at Louisiana State University, and the North Carolina Newspaper Digitization Project Coordinator and Archivist at the North Carolina State Archives. Athena holds a Master of Science degree in Library and Information Science from the University of North Texas, and a Bachelor of Arts degree in English from the University of Houston.

KIMBERLY COX-YORK is the research integrity officer at Colorado State University. Before coming to CSU, Cox-York was a researcher for a biotechnology startup and with the pharmaceutical company Merck & Co. She joined the Department of Food Science and Human Nutrition in 2009 as a research scientist and has served as the graduate program director. She received an M.S. in nutrition from the University of Hawai'i at Manoa and a Ph.D. in nutrition from CSU, followed by a postdoctoral fellowship with the IMAGE Group at UC Anschutz Medical Campus. Her research is focused on estrogen metabolism and its regulation of adipose tissue and the gut microbiome. Cox-York has been an active member of CSU's Biomedical Research Institutional Review Board and is currently the associate chair of this committee, in the transition to become the chair. She is also the Responsible Conduct of Research coordinator, leading, facilitating and teaching basic and advanced training across campus. Beyond these important roles, Cox-York has also developed and spearheads a mentoring program for graduate students in the nutrition department and works with the Graduate School, including her active participation in the inclusive mentoring program.

SOCIETY & ASSOCIATION PERSPECTIVES/AI4OS UPDATE

BROOKS HANSON is the executive vice president for science at the American Geophysical Union. He is responsible for the oversight, expansion and coordination across AGU's programs (including meetings, Thriving Earth Exchange, ethics, data programs and publications) and AGU's portfolio of scholarly books, as well as 20+ journals and their editorial operations. He has been speaking and writing on authorship and publications ethics for many years and has most recently focused on diversity and implicit bias in scholarly publishing. Before joining AGU, Hanson was the deputy editor for physical sciences at Science and worked as an editor at Science. He holds a Ph.D. in geology and his main areas of research and publication span the tectonics of the western United States, metamorphic petrology, modeling magmatic and hydrothermal processes and scholarly publishing. Hanson is a Fellow of the Geological Society of America and the Mineralogical Society of America.

YVETTE SEGER is Director of Strategic Scientific Program Advancement, Director of Science Policy, and Deputy Director of the Office of Public Affairs for the Federation of American Societies for Experimental Biology (FASEB), a coalition of 29 scientific societies collectively representing over 130,000 individual biological and biomedical researchers. In these roles, she contributes to the overall strategic vision for the Office of Public Affairs, specifically guiding the efforts of FASEB's Science Policy Committee and the work of its topical working groups. Dr. Seger launched her policy career at the National Academies as a Christine Mirzayan Science & Technology Policy Fellow where she worked on a report examining processes for identifying and appointing scientists to key federal advisory positions. After leaving the Academies, Dr. Seger held senior policy positions at the research advocacy group FasterCures, the National Institutes of Health, and Thomson Reuters before joining FASEB in 2013. Dr. Seger holds a PhD in Genetics from Stony Brook University and received a BA in Zoology (Genetics Concentration) and Politics & Government from Ohio Wesleyan University.

EDWARD LIEBOW, Ph.D., is a cultural anthropologist who has served as Executive Director of the American Anthropological Association since 2012. AAA and its sections publish 24 journals, stage 12 conferences and a film festival annually, support professional development, and undertake extensive public education and outreach on behalf of the field. Before being named AAA director, Ed enjoyed a long career with the Battelle Memorial Institute, where he conducted research on a variety of energy,

public health, and social policy issues. He retains an affiliation with the University of Washington, was a Senior Fellow of the Fulbright Commission, and was elected a Fellow of the American Association for the Advancement of Science.

FEDERAL PERSPECTIVES

CHELLE GENTEMANN is currently an IPA at NASA HQ leading NASA's Transform to Open Science (TOPS) mission. At Farallon Institute, she was a senior scientist leading research on open science, cloud computing, remote sensing, physical oceanography, and the science lead for a proposed NASA Earth Venture Mission, Butterfly. For over 20 years, she has worked on every aspect of passive microwave satellite missions, both domestically and internationally, from launch through decommission, calibration through science applications. She initiated a project to create one of the first cloud-optimized NASA datasets on AWS. She was co-chair of the National Academy of Sciences and Engineering (NASEM) Committee on Best Practices for a Future Open Code Policy for NASA Space Science, co-chair of the NASEM Standing Committee on Earth Science and Applications from Space (CESAS), and testified to the House Subcommittee on Space and Aeronautics, Discovery on the Frontiers of Space: Exploring NASA's Science Mission.

JERRY SHEEHAN is the Deputy Director of the National Library of Medicine (NLM), which is part of the National Institutes of Health, U.S. Department of Health and Human Services. Mr. Sheehan joined the NLM as Assistant Director for Policy Development in September 2006. From September 2015 to January 2017, Mr. Sheehan was on detail to the White House Office of Science and Technology Policy where he served as Assistant Director for Scientific Data and Information and helped advance open science policies across the Federal Government. Mr. Sheehan came to NLM from the Organization for Economic Cooperation and Development (OECD) in Paris, where he served as Principal Administrator and Senior Economist in the Science & Technology Policy Division from 2000 to 2006. Prior to joining the OECD, Mr. Sheehan held positions as a Senior Program Officer with the Computer Science and Telecommunications Board of the National Research Council and as an Analyst in the Congressional Office of Technology Assessment. Mr. Sheehan has been actively involved in international government discussions about intellectual property rights, public access to the results of government-funded research and industry-science relationships. He serves as Chairman of the OECD Working Party on Innovation and Technology Policy, Co-chair of the Interagency Working Group on Open Science, and Vice President of the International Council for Scientific and Technical Information. He previously served as Chair of CENDI (the Federal STI Managers group). He holds B.S. (Electrical Engineering) and M.S. (Technology and Policy) degrees from the Massachusetts Institute of Technology.

BRETT BOBLEY is the Chief Information Officer for the National Endowment for the Humanities. He also serves as the Director of the Office of Digital Humanities. Brett has a B.A. in philosophy from the University of Chicago and an M.S. in computer science from the Johns Hopkins University. In 2006 Brett received a Chief Information Officers (CIO) Council Leadership Award from the Office of Management and Budget. In 2007 he received a Presidential Rank Award from the President of the United States in recognition of his exceptional long-term accomplishments, such as cofounding the federal government's Small Agency CIO Council and establishing the NEH Office of Digital Humanities.

ALAN TOMKINS is Deputy Division Director for Social and Economic Sciences (SES), Directorate of Social, Behavioral, and Economic Sciences (SBE), with the National Science Foundation (NSF). Previously, Dr. Tomkins was the founding director of the Public Policy Center (appointed in July 1998) and served as professor of psychology and law at the University of Nebraska-Lincoln. He lead projects that worked to advance methods and interdisciplinary theories for understanding trust in government; examining effective public participation and science communication; and understanding distrust and unauthorized online activities, such as hacking. In addition, he consulted with local, state, and federal

government entities on participatory budgeting, strategic planning, performance measure options, workplace climate, resident input on policy decisions, and so on. Since 2007 he has served as co-editor of *Court Review*, journal of the American Judges Association, and prior to *Court Review* he served 12 years as Co-Editor and Editor for *Behavioral Sciences & the Law*. Dr. Tomkins received a B. A. degree from Boston University (1975) with a joint major in Psychology and Philosophy. He earned a J. D. and Ph.D. in Social Psychology from Washington University in St. Louis in 1984.

FUNDER PERSPECTIVES

ERIN McKIERNAN is the Community Manager for the Open Funders Research Group (ORFG). In this role she works with existing and prospective ORFG members to better understand the tools and resources needed to develop, launch, and oversee open policies. Erin also helps develop ORFG programming, including analyzing existing funder policies to determine best practices, cohort clustering, and opportunities for information-sharing. She also engages with targeted funders to understand hurdles to policy adoption and appropriate tools to address these issues. Erin is a neuroscientist who has been a professor in the Department of Physics, Biomedical Physics Program at the National Autonomous University of Mexico in Mexico City since 2015. Prior to that position, she was postdoc researcher at Wilfrid Laurier University in Canada. She has a B.A. in psychology, and both a M.S. and Ph.D. in physiological sciences all from the University of Arizona. In her career, Erin has demonstrated a deep commitment to open scholarship. She has been active in SPARC's OpenCon community and encourages other scientists to embrace open practices. Erin is based in Mexico City.

ANGELA HAYDEL DeBARGER is a Program Officer in Education at the William and Flora Hewlett Foundation. Her portfolio addresses open education, with the aim of democratizing knowledge, creating inclusive and engaging experiences for learners, and advancing racial equity in education systems. Previously, Angela served as senior program officer for Lucas Education Research at the George Lucas Educational Foundation, where she led elementary and middle school project-based learning initiatives. From 2002 to 2014, she worked as an education researcher at SRI International. Her research focused on improving classroom pedagogy, specifically assessment strategies, to promote student learning and engagement in science. Angela has a bachelor's degree in psychology from Stanford University, a master's degree in psychology from the University of Michigan, and a doctorate in educational psychology from Stanford University. She is a native Californian and enjoys spending time with her two boys.

NICHOLAS GIBSON is a Senior Program Officer for Human Sciences at the John Templeton Foundation. Dr. Gibson is responsible for developing grant programs on the scientific study of religion and non-religion, the psychology of virtues and character strengths, and the interface between spirituality and health. He has a particular interest in projects taking a cognitive approach to these areas. Dr. Gibson studied psychology and physiology at the University of Oxford and received his Ph.D. in psychology of religion from the University of Cambridge. He was subsequently a research fellow in science and religion at Queens' College, Cambridge, where he also taught social psychology.

CASSAUNdra AMATO has more than a decade of experience in measurement and evaluation. As part of the Planning & Evaluation department at the John Templeton Foundation she works to develop, synthesize, and facilitate access to information that results from grants. Recent projects include assisting with automating capture and attribution of grant-supported publications and project managing the open policy working group. Prior to joining the Foundation, she worked at United Way of the Greater Lehigh Valley and evaluation firms in Philadelphia, where she conducted projects on behalf of the Bill & Melinda Gates Foundation, Atlantic Philanthropies, and California's Office of the Governor. Cassaundra received her degrees in Religion and Public Life from Temple University (B.A.) and the University of Leeds (M.A.).