2018 CASE Workshop Presenters

SUNDAY, MARCH 18

**Joanne Padrón Carney** is the Director for the Office of Government Relations at AAAS. She directs all activities of the office, including production of the newsletter Science and Technology in Congress, organization of workshops, coordination of briefings for congressional leaders and their staff, and preparation of the regional reports on research and development in the states. In addition, she has assisted in various other activities for AAAS’s Science and Policy Programs. Prior to joining AAAS, Joanne was the head of Government Relations for the American Institute of Aeronautics and Astronautics (AIAA) where she followed civil space, civil aeronautics and defense issues for almost ten years. She holds a Bachelor of Arts in Spanish Language and Literature from the University of Maryland at College Park and a Master of Arts in Science, Technology, and Public Policy from the Elliott School of International Affairs at George Washington University.

**Toby Smith** is Vice President for Policy at the Association of American Universities (AAU), an organization of leading U.S. and Canadian research universities. Toby oversees and coordinates AAU’s policy and policy analysis activities. Among his specific areas of responsibility are issues relating to science and innovation policy; academic research; regulation, compliance and research costs; technology transfer; and openness and security. Toby also oversees AAU’s Undergraduate STEM Education Initiative. Prior to joining AAU in January 2003, Toby worked as a federal relations representative in the Washington D.C. Offices of the University of Michigan (1999-2002) and the Massachusetts Institute of Technology (1992-1999). Toby began his Washington career on Capitol Hill as a legislative assistant to Congressman Bob Traxler (D-Michigan). Toby is the co-author a book on science policy titled, *Beyond Sputnik – U.S. Science Policy in the 21st Century*. He is also a fellow of the American Association for the Advancement of Science. He holds a Master’s Degree in Arts of Legislative Affairs from George Washington University.

**Jesús Alvelo** is a AAAS Science and Technology Policy Fellow at the National Science Foundation (NSF), where he serves in the Directorate of Engineering within the Division of Engineering Education and Centers. Jesús is a Microbiologist with a background in biofuels and infectious diseases and prior to the AAAS fellowship, he was a postdoctoral researcher at the Department of Civil and Environmental Engineering at Massachusetts Institute of Technology studying the fluid dynamics of disease transmission. Jesús earned his Ph.D. from University of Massachusetts Amherst and his B.S. from Universidad de Puerto Rico, Rio Piedras.

MONDAY, MARCH 19

**Matt Hourihan** is the Director of the R&D Budget and Policy Program for AAAS, where he is a regular source of information and analyses on past, present, and future science budgets for policymakers and the science community. Prior to joining AAAS, Mr. Hourihan was a clean energy policy analyst at the Information Technology & Innovation Foundation. Previously, he served as Jan Schori Fellow at the Business Council for Sustainable Energy. Mr. Hourihan earned a M.A. at George Mason University, and a B.A. from Ithaca College. Prior to graduate school, he spent five years working as a cause communications professional and as an award-winning journalist.
Rush Holt became the chief executive officer of the American Association for the Advancement of Science (AAAS) and executive publisher of the Science family of journals in February 2015. In this role, Holt leads the world's largest multi-disciplinary scientific and engineering membership organization.

Over his career, Dr. Holt has held positions as a teacher, scientist, administrator, and policymaker. From 1989 to 1998, Holt was assistant director of the Princeton Plasma Physics Laboratory (PPPL), a Department of Energy national lab, which is the largest research facility of Princeton University and one of the largest alternative energy research facilities in the country. At PPPL, Holt helped establish the lab's nationally renowned science education program. From 1980 to 1988, Holt was on the faculty of Swarthmore College, where he taught courses in physics and public policy. In 1982, he took leave from Swarthmore to serve as an AAAS/American Physical Society Science and Technology Policy Fellow on Capitol Hill. The Fellowships program, dating to 1973, places outstanding scientists and engineers in executive, legislative, and Congressional branch assignments for one or two years; as of 2017, the program has served more than 3,600 alumni working worldwide in the policy, academic, industry, and nonprofit realms. Holt has said that his AAAS S&T Policy Fellowship was "career changing." From 1987 to 1989, Holt served as an arms control expert at the U.S. State Department, where he monitored the nuclear programs of countries such as Iraq, Iran, North Korea, and the former Soviet Union. In 1981, Holt was issued a patent for an improved solar-pond technology for harnessing energy from sunlight.

Before coming to AAAS, Holt served for 16 years as a member of the U.S. House of Representatives, representing New Jersey's 12th Congressional District. In Congress, Holt served as a member of the Committee on Natural Resources and the Committee on Education and the Workforce. On Capitol Hill, Holt established a long track record of advocacy for federal investment in research and development, science education, and innovation. He served on the National Commission on the Teaching of Mathematics and Science (known as the Glenn Commission), founded the Congressional Research and Development Caucus, and served as a co-chair of the Biomedical Research Caucus. Holt served eight years on the Permanent Select Committee on Intelligence and, from 2007 to 2010, chaired the Select Intelligence Oversight Panel, which worked to strengthen legislative oversight of the intelligence community. His legislative work earned him numerous accolades, including being named one of Scientific American magazine's "50 National Visionaries Contributing to a Brighter Technological Future" and a "Champion of Science" by the Science Coalition. He has also received awards from the American Chemical Society, the American Association of University Professors, the National Association of Graduate-Professional Students, the American Institute for Medical and Biological Engineering, the Council of Scientific Society Presidents, the American Geophysical Union, and the Biotechnology Industry Organization. Holt is a past recipient of two of AAAS' highest honors: the William D. Carey Lectureship Award (2005) and the Philip Hauge Abelson Award (2010).

From December 2014 to February 2015, Holt was appointed a Director's Visiting Scholar at the Institute for Advanced Study in Princeton, New Jersey.

Holt is a Phi Beta Kappa graduate of Carleton College in Northfield, Minnesota, and he holds M.A. and Ph.D. degrees in physics from New York University. He is an elected fellow of AAAS, the American Physical Society, and Sigma Xi, and he holds honorary degrees from Monmouth University, Rider University, University of Toledo, and Thomas Edison State College.
Lloyd Whitman is serving as the Lead for the Science Division and Assistant Director for Nanotechnology and Advanced Materials in the White House Office of Science and Technology Policy (OSTP), on detail from his position as Chief Scientist at the National Institute of Standards and Technology (NIST). Lloyd provides senior leadership to OSTP and the National Science and Technology Council for a broad range of science and technology (S&T) areas and national research and development programs, including advanced manufacturing, advanced materials, information technology, nanotechnology, physical sciences, prizes and challenges, and technology transfer. He also supports the National Security Council with subject matter expertise related to future electronics and U.S. semiconductor industry competitiveness.

Lloyd received a B.S. in Physics from Brown University, and M.S. and Ph.D. degrees in Physics from Cornell University. He spent most of his research career at the U.S. Naval Research Laboratory, where he led a diverse portfolio of research studying semiconductor, organic, and biomolecular nanostructures, their use in novel functional surfaces, and their integration into advanced sensor systems. He was subsequently the founding Deputy Director of NIST’s Center for Nanoscale Science and Technology, and served at OSTP for the last two years of the Obama administration, where he oversaw the National Nanotechnology Initiative and the Materials Genome Initiative, launched the Nanotechnology-Inspired Grand Challenge for Future Computing, and advised on a variety of other S&T policy initiatives. Lloyd has over 160 publications and multiple patents in the areas of nanoscience, materials science, biotechnology, and sensor technology, and has been recognized with numerous media citations and awards.

Judy Schneider is a Specialist on the Congress, Government and Finance Division Congressional Research Service, and an adjunct scholar at the Brookings Institution Center for Public Policy Education. Prior to joining CRS in 1979, she served as research coordinator of the Senate Ethics Committee’s Korean investigation, and as a professional staff member of the Senate Select Committee to Study the Senate Committee System and the House Commission on Administrative Review.

Ms. Schneider is the author of over 100 papers on congressional organization and operations, and the co-author of the Congressional Deskbook, published by TheCapitol.Net in June 2000, and now in its fourth edition. She has been a featured speaker at numerous conferences and professional society annual meetings, and frequently meets with and gives briefings to students, foreign visitors, executive branch personnel, and Members and congressional staff. Ms. Schneider serves on the faculty of the Conference for New Members of Congress.

Ms. Schneider was selected as a Stennis Fellow during the 108th Congress, and received the Women in Government Relations (WGR) Distinguished Member Award in 2004. She has a BA and MA from American University and has done additional graduate work at the Hebrew University in Jerusalem, Israel.

David Goldston became Director of the MIT Washington Office in May 2017. Prior to that, he was Director of Government Affairs at the Natural Resources Defense Council, a leading environmental group for eight years, where he helped shape NRDC’s federal political strategy, policies, and communications. Before his time at the NRDC he spent more than 20 years on Capitol Hill, working primarily on science and environmental policy, including serving as Chief of Staff of the House Committee on Science from 2001 through 2006.
After retiring from government service, Goldston was a visiting lecturer at Princeton University’s Woodrow Wilson School of Public and International Affairs, and at Harvard University Center for the Environment. He is currently an adjunct professor at Georgetown University. Goldston was the project director for the Bipartisan Policy Center report: “Improving the Use of Science in Regulatory Policy,” which was released in August 2009. He authored a chapter in *The Science of Science Policy: A Handbook*. He is a member of the Advisory Committee of the National Academy of Sciences’ Division of Environment and Life Sciences, and has served on numerous panels of the Academy and other science policy organizations. He holds a B.A. (1978) from Cornell University and completed the course work for a Ph.D. in American history at the University of Pennsylvania.

**Daniel Sarewitz** is the Co-Director of the Consortium for Science, Policy & Outcomes (CSPO) at Arizona State University, where he also serves as a Professor of Science and Society in the School for the Future of Innovation in Society. He directs CSPO’s office in Washington, DC, and focuses his efforts on a range of activities to increase CSPO’s impact on federal science and technology policy processes, and its contributions to public dialogue on the social and political aspects of scientific and technological change. Sarewitz’s research focuses on revealing the connections between science policy decisions, scientific research and social outcomes.


**TUESDAY, MARCH 20**

**Congressman Bill Foster** is a scientist and businessman representing the 11th Congressional District of Illinois. He previously served in Congress from March 2008 until January 2011 as the Representative of 14th Congressional District of Illinois. He is the only PhD physicist in Congress.

Bill serves on the House Committee on Financial Services, a position he also held in the 110th, 111th, 113th, and 114th Congresses. As a member of the Financial Services Committee, he advocates for consumer protection and a fair economy for everyone. In response to the Great Recession, he participated in the creation of several important reforms in the financial services and housing sectors, most notably the Dodd-Frank Wall Street Reform and Consumer Protection Act. He also serves on the Committee on Science, Space, and Technology.

Bill's business career began at age 19 when he and his younger brother co-founded Electronic Theatre Controls, Inc., a company that now manufactures over half of the theater lighting equipment in the United States.

Before he became a Member of Congress, Bill worked as a high-energy physicist and particle accelerator designer at Fermi National Accelerator Laboratory (Fermilab). He was a member of the team that discovered the top quark, the heaviest known form of matter. He also led the teams that designed and built
several scientific facilities and detectors still in use today, including the Recycler Ring, the latest of Fermilab's giant particle accelerators.

Bill lives in Naperville with his wife Aesook, who is also a physicist. Bill has two grown children, Billy and Christine. Bill's father was a civil rights lawyer who wrote much of the enforcement language behind the Civil Rights Act of 1964.

**Julia Jester** is the Congressional Liaison Officer in the Office of Communications and Publishing for the U.S. Geological Survey which is a part of the Department of Interior. Julia previously served in the Congressional Affairs office within the National Science Foundation’s. Prior to that, Julia served for many years on the House Science, Space and Technology Committee and also within the personal office of former Representative Vern Ehlers (R-MI). Ehlers is best known as one of the only Ph.D physicists along with Rush Holt and Rep. Bill Foster. Julia originally got her start at the intersection of science and policy as a Science Policy Fellow sponsored by the ACS.

**Lyric Jorgenson** is the Deputy Director for the Office of Science Policy at the National Institutes of Health. She provides senior leadership in the development and oversight of policies and programs associated with emerging, high-impact issues of importance to the biomedical research enterprise and the United States Government. Most recently, she was the Deputy Executive Director of the White House Cancer Moonshot Task Force in the Office of the Vice President in the Obama administration. Prior to joining the Office of Science Policy, Lyric was a Health Science Policy Advisor and Analyst under the Deputy Director for Science, Outreach, and Policy at NIH, where she helped create new signature initiatives such as the BRAIN Initiative and the National Center for Advancing Translational Sciences (NCATS). She was also an AAAS Science and Technology Fellow. She earned her Ph.D. from the Graduate Program for Neuroscience at the University of Minnesota-Twin Cities where she conducted research in neurodevelopment with a focus on learning and memory systems. She earned a Bachelor’s degree in Psychology from Denison University.

**Karen Pearce** is the Senior Legislative Policy Analyst with the National Science Foundation. Karen has been with the NSF since 1998 in the Office of Legislative and Public Affairs. After a 5-year absence starting in 2002, she returned in 2007 as the senior legislative affairs specialist. She spent 3 years as Deputy Chief/Chief of Congressional Affairs for the Bureau of Reclamation at the Department of the Interior, and two years as the head of Congressional Affairs at the Agricultural Research Service at USDA. Before joining the Executive Branch, Karen spent 10 years as a professional staff member with the House Science, Space, and Technology Committee. She has also worked in the personal offices of House and Senate Members of Congress. Karen received her bachelor’s degree in business administration from Roanoke College in Salem, Virginia.

**Emily Therese Cloyd** is the Project Director for Public Engagement at AAAS. She is a scientist and public engagement enthusiast and focuses her work on building scientists’ skills in communicating and engaging the public around science. She is responsible for the daily operations of the AAAS Center for Public Engagement with Science and Technology. Since 2004, the AAAS Center for Public Engagement has worked to further awareness of science and the scientific process and increase public input into scientific research and policy agendas, encouraging and facilitating dialogue between policymakers, the general public, and the scientific community. Emily’s background is in ecology and environmental policy, and prior to joining AAAS, she led engagement and outreach efforts at the U.S. Global Change Research Program.
Sean Gallagher is a Senior Government Relations Officer in AAAS’ Office of Government Relations. He handles a wide range of policy issues and focuses on engaging and encouraging scientists to demonstrate their value to their peers, the media and policy makers. Prior to joining AAAS, Sean spent more than 7 years on Capitol Hill as a legislative aide to five Members of Congress, helping represent districts in Pennsylvania, New York, Virginia, California, and most recently was a policy advisor to Representative Rush Holt from central New Jersey. Sean specialized in science and technology issues, and also has experience in military and veterans affairs as well health care reform. Sean has a Master’s Degree in Social and Public Policy from Georgetown University and received his Bachelor’s in Political Science from Villanova University.