



**SPRING  
LEADERSHIP WORKSHOP**

**MAY 4 – 7, 2019  
WASHINGTON, DC**

**SPEAKER  
BIOGRAPHIES**

## PAUL ANASTAS

*Professor, Chair in Chemistry for the Environment, Yale University*



Professor Paul T. Anastas holds the Teresa and H. John Heinz III Chair in Chemistry for the Environment at Yale University and is the founding Director of the Center for Green Chemistry & Green Engineering at Yale. Dr. Anastas has appointments in the School of Forestry & Environmental Studies, Department of Chemistry, School of Management, School of Public Health and the School of Engineering and Applied Sciences. Trained as a synthetic organic chemist, Dr. Anastas received his Ph.D. from Brandeis University and worked as an industrial consultant.

Dr. Anastas has served in three Presidential Administrations including the appointment by President Barack Obama as the Assistant Administrator for Research and Development at the US Environmental Protection Agency. He is credited with establishing the field of green chemistry during his time working for the U.S. Environmental Protection Agency as the Chief of the Industrial Chemistry Branch and as the Director of the U.S. Green Chemistry Program.

Dr. Anastas has published widely on topics including over 150 research papers and 14 books, such as *Benign by Design*, *Designing Safer Polymers*, *Green Engineering*, and his seminal work with co-author John Warner, *Green Chemistry: Theory and Practice*. He is known as the 'Father of Green Chemistry' and has been internationally recognized for his advancement of the field.

## DAVID BALTENSPERGER

*Crop Science Society of America, Texas A&M University*



Dr. David Baltensperger began his role as Professor and Department Head of Soil and Crop Sciences in October 2005 and recently completed serving his role as Interim Department Head for Ecosystem Science and Management.

Baltensperger provides leadership and administration for a large comprehensive program of research, teaching and extension in the Department of Soil and Crop Sciences. The department is widely recognized for its quality, size, and diversity of subject matter areas. Nationally and internationally recognized research programs are conducted by Soil and Crop Sciences Faculty in such disciplines as plant breeding and genetics, biotechnology, crop physiology, agronomy, forage and turfgrass management, cereal chemistry, soil science, weed science, and environmental soil, water and crop science.

Baltensperger earned his bachelor's in 1976 in Biology from Nebraska Wesleyan University and master's in 1978 in Agronomy from University of Nebraska. He received his doctorate from New Mexico State University in 1980.

Baltensperger comes to Texas A&M AgriLife Research and Extension from the University of Nebraska where he worked for 17 years as a plant breeder developing and co-developing crops that are grown on more than 2 million acres. Prior to Nebraska he worked as a legume breeder at the University of Florida for 9 years. Baltensperger received the Texas A&M College of Agriculture Outstanding Administrator in 2012 and New Mexico State Plant and Environmental Science Department Outstanding Alumni. Baltensperger is a Fellow in Crop Science Society of America, American Society of Agronomy and American Association for the Advancement of Science. He currently serves as President of the Crop Science Society of America, Chairman of the State Seed and Plant Board, Chair of Texas A&M Chapter of Gamma Sigma Delta and on numerous national boards and committees.

## STEVEN BENNER

*Distinguished Fellow at the Foundation for Applied Molecular Evolution and The Westheimer Institute for Science and Technology*



Steven Benner is a Distinguished Fellow at the Foundation for Applied Molecular Evolution and The Westheimer Institute for Science and Technology, which he founded after serving on the faculty at Harvard, the ETH Zurich, and the University of Florida. His research seeks to combine two traditions in science, from natural history, and from the physical sciences. In making this combination, Prof. Benner's laboratory was among the first to do large scale DNA synthesis, including the creation of synthetic genes to support biotechnology. He also initiated efforts to redesign DNA and RNA to better understand how these terran genetic molecules work. To better understand how those molecules and their encoded products evolved on Earth, he developed the first web-based bioinformatics tools and the first modern protein sequence databases. To bring experimental methods to bear on molecular evolutionary models, he helped initiate the field of paleogenetics, resurrecting ancestral genes and proteins from extinct organisms

for study in the laboratory, and predicting how proteins fold as way to capture distant relations in biomolecular pedigrees. In addition to reshaping our view of what life is, and how it is intimately connected with its underlying chemistry, his work has had impact on commerce and the public. Dr. Benner helped launch several biotechnology companies, including those that generated products that personalize the care of patients suffering from HIV, hepatitis B and hepatitis C infections, kits that detect insect-borne pathogens in the US and the developing world, and tools to discover small molecule drugs using dynamic combinatorial chemistry. His work also guides NASA missions seeking alien life, and activities by the John Templeton Foundation and the Templeton World Charity Foundation to understand how life originated and what form it might take on alien worlds. His most recent book is entitled: "Life, the Universe, and the Scientific Method."

## ANNEMARIE BROWN

*Lecturer & Postdoctoral Researcher, Dartmouth College*



Annemarie Brown received her B.A. in Neurolinguistics at Connecticut College and her Ph.D. in Cognitive Neuroscience at Dartmouth College, during which time she also served as an NSF GK-12 Fellow, teaching neuroscience and science enrichment at a local middle school. She returned to Connecticut College as a Visiting Assistant Professor, where she taught a wide range of courses and advised undergraduate research. She is currently a Postdoctoral Scholar in the Brain Engineering Lab and Lecturer at Dartmouth College, where she teaches Cognition, Emotion, and Research Methods. Dr. Brown's research interests broadly span the psychophysiology and perception of human communication: how we use nonverbal signals of emotion to navigate our social world, how our nonverbal dispositions shape our perceptions of emotion in others, and how neuromodulation may be used to shape our

perception of language. Dr. Brown is one of nine current and former students who have filed a class action lawsuit against Dartmouth alleging gender discrimination, sexual harassment and retaliation against women in the Psychological & Brain Sciences Department. By speaking out, Dr. Brown hopes to expose institutional behaviors that permit sexual misconduct to flourish, working toward a future of inclusion and equality in science.

## JAMES CARROLL

*Founder and CEO at THOR Photomedicine Ltd.*



James Carroll is the Founder and CEO of THOR Photomedicine, a medical technology company specializing in equipment for Photobiomodulation (PBM) Therapy, a non-invasive, non-toxic, treatment that helps the body heal itself.

Mr. Carroll is a Fellow of The Royal Society of Medicine. He has served on the Boards of the World Association for Laser Therapy (WALT) and the North American Association for Laser Therapy (NAALT). He is the co-author of four books describing the science and application of Photobiomodulation, and co-authored twenty peer-reviewed papers on PBM Therapy.

Mr. Carroll is described as the “Worlds’ Leading Ambassador” for PBM Therapy by many in the field. He travels the globe inspiring health professionals to make light therapy the preferred mainstream treatment for managing pain, healing wounds, and treating a range of musculoskeletal conditions.

He presented to the United Nations Global Health Forum on how PBM Therapy effectively treats Dry Age-Related Macular Degeneration (AMD), leading to major research funding. He briefed the United States Congress on how PBM Therapy can eliminate the use of Opioids, supporting passage of the Opioid Crisis Response Act (OCRA). His leadership in collecting and disseminating clinical evidence on PBM Therapy helped convince Britain’s National Institute for Health and Care Excellence (NICE) to recommend PBM therapy for preventing or treating oral mucositis caused by radiotherapy or chemotherapy.

## JOHN COOK

*Research Assistant Professor, George Mason University*



John Cook is a research assistant professor at the Center for Climate Change Communication at George Mason University. His research focus is understanding and countering misinformation about climate change. In 2007, he founded Skeptical Science, a website which won the 2011 Australian Museum Eureka Prize for the Advancement of Climate Change Knowledge and 2016 Friend of the Planet Award from the National Center for Science Education. John co-authored the college textbooks *Climate Change: Examining the Facts* and *Climate Change Science: A Modern Synthesis* and the book *Climate Change Denial: Heads in the Sand*. In 2013, he published a paper finding 97% scientific consensus on human-caused global warming, a finding that has been highlighted by President Obama and UK Prime Minister David Cameron.

## SARAH COOLEY

*Director, Ocean Acidification Program, Ocean Conservancy*



Sarah R. Cooley is the Director of the Ocean Acidification Program at Ocean Conservancy, in Washington DC. This program seeks to show that ocean acidification is an issue that is relevant to elected officials and their constituents, and can be acted upon by leaders, to advance this issue in a constructive, bipartisan frame that ultimately leads to longer-term support for action on acidification and a host of other ocean-related issues. Dr. Cooley has been working to incorporate science into decision making at Ocean Conservancy since 2014. She is currently a Coordinating Lead Author on Working Group II of the IPCC's 6<sup>th</sup> Assessment Report, and has recently served as Review Editor on the 4<sup>th</sup> National Climate Assessment, and Lead Author on the 2<sup>nd</sup> State of the Carbon Cycle Report, as well as the author of dozens of peer-reviewed scientific journal articles in high-impact journals including *Science* and *Nature Climate Change*.

Dr. Cooley's scholarly focus spans ocean carbon cycling, science communication, and science-based policy development. In her position at Ocean Conservancy, she works to educate and engage decision-makers and stakeholders from every political perspective at regional to international levels on ocean acidification, identifying ways that different groups can take concrete, stepwise action on the issue. In her work, Dr. Cooley combines science synthesis, strategic communications, political strategy and advocacy, and public advocacy.

Prior to joining Ocean Conservancy, Dr. Cooley was a researcher and postdoctoral investigator at Woods Hole Oceanographic Institution (WHOI), as well as the ocean acidification scientist in the Ocean Carbon and Biogeochemistry Program Project Office. She received a Ph.D. in Marine Science from University of Georgia and a B.S in Chemistry from Haverford College.

## JOHN A. DOWNING

*Director and Professor, Minnesota Sea Grant College Program and Dept. of Biology Swenson College of Science and Engineering*

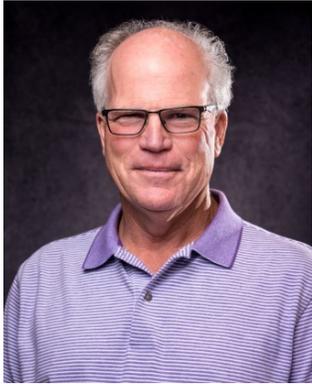


John Downing is Director of Minnesota Sea Grant College Program, and a past-president of the Association for the Sciences of Limnology and Oceanography (ASLO). As a past Chair of the CSSP Executive Board he participated in visits to Congress on behalf of CSSP and as a member of the Consortium of Aquatic Science Societies. He was a Regent's Excellence Professor of Ecology, Evolution, and Organismal Biology, and the Department of Agricultural and Biosystems Engineering at Iowa State University. He is Chair of the Environmental Science Graduate Program. He is also an adjunct professor at Itasca Community College where he is helping create a water quality technology program to provide employment opportunities to students in an economically depressed region. His research interests include limnology, aquatic ecology, terrestrial ecology, microbial ecology, biogeochemistry, population conservation, and whole ecosystem restoration and management. He has advised many policy-makers and citizens groups concerning water resources, global change, and global carbon cycling as well as science policy, and science education, and is a frequent consultant to firms

and boards regionally, nationally, and internationally. He was formerly a professor at McGill University and the University of Montreal where he was Director of the Laurentian Biological Station and Chair of the Natural Sciences and Engineering Research Council panel on Environment, Evolution & Ecology

## DIRK DROST

*Syngenta Crop Protection, LLC (retired April 2019), Managing Partner, D3 Consulting, LLC, High Point, NC*



During his 37 years employed by Syngenta Crop Protection, LLC in the Agribusiness Industry, Dirk held leadership roles in Research & Development, Marketing, Portfolio Management, and Development Management /Administration. Syngenta is a world-leading agribusiness committed to sustainable agriculture through innovative research and technology.

As an industry liaison member of CAST since 2011, Dirk represented Syngenta. He is currently a member of the CAST Board of Directors, representing industry since 2012. Working closely with the IR4 Project since Dirk served as its Liaison to Syngenta since 2001, working closely with the IR4 project to support the needs of specialty crop growers for new crop protection technologies. Dirk also served on the Board of Visitors for the College of Agricultural and Life Sciences, University of Wisconsin-Madison under 2 Deans.

A visionary for how non-profit organizations, like CAST and IR4, can partner with other stakeholders to meet present and future stakeholder needs, Dirk's spheres of influence include: 1) cooperate and partner with external stakeholders to leverage support and resources for plant science, animal science and food science issues and concerns; 2) work across organizations (Industry, non-profits; land-grant universities; and other stakeholders) to coordinate communications to ensure that science is considered in public policy and legislative decisions on these industries and organizations; 3) networking with his regional, national, and international professional societies; 4) working across country (Canada, Mexico) and continents to achieve technology benefits and tools for growers.

Dirk's priorities are developing people, leading/implementing change, and connecting individuals with opportunities to enhance or jump-start ideas and innovation in plant science, animal science and food science that will lead to educational and career prospects for individuals interested in agribusiness and food systems.

Dirk received his B.S. in Crop and Soil Sciences from Michigan State University and both, his M.S. and Ph.D. in Agronomy from the University of Wisconsin. Dirk's Ph.D. thesis work was conducted at the International Rice Research Institute, Los Banos, Laguna, Philippines.

In his free time, Dirk enjoys fishing, gardening, traveling and singing in a Chancel Choir.

## MAHMUD FAROOQUE

*Associate Director, [Consortium for Science, Policy and Outcomes \(CSPO\)](#), DC; Clinical Associate Professor, [School for the Future of Innovation in Society \(SFIS\)](#); Arizona State University*



Mahmud's work at the [ASU Washington Center](#) focuses on making science more democratic and useful. The democratic component envisions building a distributed institutional network of academics, educators and analysts for [participatory technology assessment \(pTA\)](#). The useful component envisions building a network of boundary practitioners for [reconciling the supply of and demand for scientific information \(RSD\)](#) for decision and policy support.

Mahmud is the principal coordinator of [Expert and Citizen Assessment of Science and Technology \(ECAST\)](#) – a distributive institutional network that brings together research centers, informal science education centers, citizen science programs and non-partisan policy think tanks to engage citizens on decision-making related to science and technology policy. He led large-scale public consultation projects on [biodiversity](#), [space](#), [climate](#), and energy to support policy and decision-making at the national and global levels. His current public consultation projects involve [Climate Change Resilience](#), [Gene Drives](#), [Driverless Cars](#), [Geoengineering](#) and [Internet](#).

Mahmud was the Deputy Director of Policy Programs at the *New York Academy of Science*, Director of Collaborative Research at *City University of New York*, Associate Director for Research Development at *Northwestern University*, and Managing Director of USDOT Research Center at *Purdue University*.

Mahmud's expertise focuses on innovation systems, research management, knowledge co-production, policy entrepreneurship, and participatory technology assessment.

## FRANCESCA GRIFFO

*Science Integrity Officer, Environmental Protection Agency*



Dr. Francesca Grifo is the EPA's Scientific Integrity Official. Her research interests and areas of expertise include Scientific Integrity in Federal Decision Making, Conservation of Biological Diversity, STEM Education and Environmental Policy.

Prior to her appointment at EPA, Dr. Grifo was Senior Scientist, Science Policy Fellow, and Director of the Scientific Integrity Program for the Union of Concerned Scientists. Previously she served as the Director of the Science Teachers Environmental Education Program and Graduate Policy Workshop at Columbia University, and as the Director of the Center for Biodiversity and Conservation at the American Museum of Natural History. Her government experience includes work as a Program Manager of the International Cooperative Biodiversity Groups (ICBG) for the National Institutes of Health as well as service as an American Association for the Advancement of Science, Science and Diplomacy Fellow (AAAS) for USAID's Office of Research.

Dr. Grifo has held adjunct and other professorial appointments at American University, Georgetown University, Columbia University, and Bard College. She has taught at both the graduate and undergraduate levels including courses such as: Environmental Science; Introductory Biology; Conservation Biology; Biodiversity and Human Health; and Case Studies in Conservation Biology in the Hudson Valley.

She has organized symposia and given talks at various scientific society meetings and has been widely quoted in the press in outlets such as *The Washington Post* and *The New York Times* as well as Rachel Maddow, several NPR programs and many others.

Dr. Grifo is a fellow of the American Association for the Advancement of Science, and was awarded the Distinguished Service in Science Policy Award from the Washington Academy of Sciences. Dr. Grifo received her A.B. in Biology from Smith College and her Ph.D. in Botany from Cornell University

## KATHLEEN HALL-JAMIESON

*Professor of Communications, University of Pennsylvania*



Kathleen Hall Jamieson is the Elizabeth Ware Packard Professor of Communication at the University of Pennsylvania's Annenberg School for Communication, the Walter and Leonore Director of the university's Annenberg Public Policy Center, and Program Director of the Annenberg Retreat at Sunnylands. She has authored or co-authored 16 books, most recently *Cyberwar: How Russian Hackers and Trolls Helped Elect a President* (Oxford University Press), which won the 2019 R.R. Hawkins Award from the Association of American Publishers. Including *Cyberwar*, six of the books that Jamieson has authored or co-authored have received a total of nine political science or communication book awards (*Packaging the Presidency*, *Eloquence in an Electronic Age*, *Spiral of Cynicism*, *Presidents Creating the Presidency*, and *The Obama Victory*.) She co-edited *The Oxford Handbook of Political Communication* and *The Oxford Handbook of the Science of Science Communication*. Jamieson has won university-wide teaching awards at each of the three

universities at which she has taught and has delivered the American Political Science Association's Ithiel de Sola Poole Lecture, the National Communication Association's Arnold Lecture, and the NASEM Division of Behavioral and Social Sciences and Education Henry and Bryna David Lecture. Her paper "Implications of the Demise of 'Fact' in Political Discourse" received the American Philosophical Society's 2016 Henry Allen Moe Prize. Jamieson's work has been funded by the FDA and the MacArthur, Ford, Carnegie, Pew, Robert Wood Johnson, Packard, and Annenberg Foundations. She is the co-founder of FactCheck.org and its subsidiary site, SciCheck, and director of The Sunnylands Constitution Project, which has produced more than 30 award-winning films on the Constitution for high school students. Jamieson is a fellow of the American Academy of Arts and Sciences, the American Philosophical Society, the American Academy of Political and Social Science, and the International Communication Association, and a past president of the American Academy of Political and Social Science.

## G. WARFIELD HOBBS

*Founder and Managing Partner of Ammonite Resources*



G. Warfield "Skip" Hobbs is a geologist and Founder and Managing Partner of Ammonite Resources, a firm of international petroleum, mining and geothermal technical and business consultants. Hobbs holds a B.Sc. Degree in Geology from Yale College and a M.Sc. Degree in Petroleum Geology from the Royal School of Mines, Imperial College, London. He has served as an elected national officer of the American Association of Petroleum Geologists, and from 2004-2012 served on the Executive Committee of the American Geological Institute, a federation of 51 geoscience professional societies representing over 250,000 members in every earth science discipline. He was AGI President in 2010-2011. Hobbs was a member of the Council of Scientific Society Presidents in Washington, D.C., from 2009-2012, where he served as Co-Chair of the Committee on Energy and the Environment. He is an active alumni member of the Council of Scientific Society Presidents, and currently serves as chairman of the CSSP Committee on Science and Public Policy. In 2016 Hobbs was elected as a Fellow of the

Geological Society of America, and served on the GSA Geology and Public Policy Committee from 2015-2018. He is the current president of the Connecticut Agricultural Experiment Station Associates. Hobbs writes and lectures frequently on energy economics and energy policy, and on environmental issues. He lives in New Canaan, Connecticut, and in his spare time manages a family farm in Sheffield, MA.

## JONATHAN JENKINSON

*Sr. Director, Analytics and Pipeline Design, Global Plant Breeding*



Jonathan Jenkinson, Ph.D., currently leads a team of scientists who strive to deliver the latest data science and genomic tools to plants breeders who develop industry leading products for farmers around the world.

Throughout his 22-year career at Monsanto, Jonathan has held several roles in the Global Plant Breeding organization including managing a soybean breeding program in Canada, leading corn and canola breeding programs across North America, and leading corn and cotton breeding teams across the Asia and Africa regions.

Jonathan holds B.S. and M.S. degrees from the University of Guelph in Ontario, Canada, and a Ph.D. in Plant Breeding from Iowa State University. Jonathan and his wife, Alison, live in the St. Louis area, have two boys: Evan and Connor, and a dog named Reggie. Outside of work, Jonathan enjoys coaching his sons' hockey teams, hiking, camping, fishing, and sailing.

## ERIN JONES

*Head of Sustainability & Outreach, Plant Breeding, Crop Science Division of Bayer*



Erin Jones currently serves as Head of Sustainability & Outreach and is a member of the Plant Breeding Leadership Team for the Crop Science division of Bayer. Based in St. Louis, Missouri, Erin's team is focused on cultivating an understanding of breeding innovations and strengthening the positive environmental and societal impact of our business in agriculture.

Erin came to Bayer in 2018 after working at Monsanto for 13 years. Throughout her 13-year tenure at Monsanto, Erin has held roles in Sales, selling Asgrow/DEKALB seed; Product Supply, in customer service and leading employee training; and now in Research & Development. Having grown up on a small beef cattle farm in north central Ohio, she has been inspired since childhood to contribute to environmentally sustainable solutions for agriculture. Erin is also passionate about career development and was instrumental in establishing a business resource group for employees in their 20s and 30s, offering programming for leadership and business acumen development as well as community outreach. Known as the Emerging Leaders Network (ELN), almost 10-years since inception, the group continues

to be one for the largest business resource groups at Bayer.

Erin holds a MS in Crop Science from the University of Illinois in Champaign, IL, a MBA from Webster University in St. Louis, MO, and a BS in Agriculture and Education from Wilmington College in Wilmington, Ohio. In her spare time, Erin is a member of the Young Friends Board at the Danforth Plant Science Center in St. Louis, and enjoys traveling and hiking with her dog, Petey.

## LEAH KAPLAN

*Program Specialist, Consortium for Science, Policy & Outcomes*



Leah Kaplan is a program specialist with the Consortium for Science, Policy & Outcomes in DC. Her primary focus is supporting the Consortium's work on Participatory Technology Assessment (pTA). She is the Project Coordinator for the Consortium's current project "Our Driverless Futures", involving large-scale citizens consultations in the United States, Europe, and Asia on the future of driverless mobility. Leah aids in the design the consultations, preparation of background materials, analysis of the results, and management of forum logistics.

Leah graduated summa cum laude with her Bachelor's in chemical engineering from the University of Arizona. She has worked in research labs studying glial cells, algae biofuels, and on the Hill with the House Committee on Science, Space, and Technology.

## STEVEN LAINO

*Security Transformation Consultant with Amazon Web Services (AWS), Global Security Risk & Compliance Practice*



Steven Laino is currently a Security Transformation Consultant with Amazon Web Services (AWS), Global Security Risk & Compliance Practice. Steven helps AWS customers build the confidence and security capabilities they need to move their most sensitive workloads to AWS by advising large companies on transforming the way they work and securing their workloads in the cloud. Steven also leads the AWS Innovation Accelerator program, working with internal organizations to help them innovate on behalf of AWS customers through education, innovation workshops, and other mechanisms that result in new services, features, and patents.

Throughout Steven's career in Information Technology, he founded a security monitoring company, one of the first Internet Service Providers in New York and, a SaaS provider for real estate transactions. Following the sale of his Internet company, Steven went on to work with AT&T Labs, building secure global networks, Barclay's Capital, and TD Ameritrade where he served as the Senior Security Architect before joining AWS.

Steven is a Certified Information Systems Security Professional (CISSP), Information Systems Security Architecture Professional (ISSAP), Certified Information Security Manager (CISM), and Certified Cloud Security Professional (CCSP).

## KARLO LOPEZ

*Associate Professor, California State University*



Dr. Karlo Lopez is an associate professor of chemistry and biochemistry at California State University, Bakersfield. He obtained his Ph.D. in chemistry from Clark University and was a Howard Hughes Medical Institute Postdoctoral Fellow at Pomona College in Claremont, CA. Dr. Lopez's research aims to understand the role of lysyl oxidase in cancer metastasis and to develop small-molecule inhibitors of this enzyme. Dr. Lopez is a native of Peru and is fluent in three languages.

## SARALYN MARK, MD

*Founder & CEO, SolaMed Solutions, LLC; Founder & President, iGIANT*



Saralyn Mark, MD, a world renowned leader in women's health, is an endocrinologist, geriatrician and women's health specialist. She was the first Senior Medical Advisor to the Office on Women's Health within the Department of Health and Human Services. She designed the first women's health fellowship in the US, helped create the National Centers of Leadership in Academic Medicine, the National Centers of Excellence in Women's Health, and landmark educational campaigns on critical health issues. She has published and delivered over 600 lectures and is a frequent health media expert. Dr. Mark works with agencies, academia, industry and NGOs around the globe. As President of SolaMed Solutions, LLC, Dr. Mark serves as a medical and scientific policy advisor to the White House, NASA and other organizations dedicated to improving health on Earth and in space. She holds 4 academic appointments including at Yale and Kings College-London. She is author of Stellar Medicine: A Journey Through the Universe of Women's Health.

## DAVID MICHAELS

*Professor of Environmental and Occupational Health at the Milken Institute School of Public Health of George Washington University*



David Michaels, PhD, MPH is Professor of Environmental and Occupational Health at the Milken Institute School of Public Health of George Washington University. From 2009 until January 2017, he was Assistant Secretary of Labor for Occupational Safety and Health, the longest serving Assistant Secretary in OSHA's history. From 1998 to 2001, Dr. Michaels served as Assistant Secretary of Energy for Environment, Safety and Health, charged with protecting workers, community residents and the environment in and around the nation's nuclear weapons facilities.

Dr. Michaels has conducted epidemiologic studies on typographers, commercial pressmen, construction workers, bus drivers and paper workers, and has published papers in *Science*, *JAMA*, and numerous other journals. In addition to his epidemiologic research, much of Dr. Michaels' work has focused on protecting the integrity of the science underpinning public health and environmental protections. He is the author of [\*Doubt is Their Product: How Industry's Assault on Science Threatens Your Health\*](#) (Oxford University Press, 2008), and the forthcoming [\*The Triumph of Doubt: Dark Money and the Science of Deception\*](#).

Dr. Michaels received the American Association for the Advancement of Science's [Scientific Freedom and Responsibility Award](#) for his work on behalf of nuclear weapons workers and for his advocacy for scientific integrity. He is also the recipient of the American Public Health Association's [David P. Rall Award for Advocacy in Public Health](#), and the [John P. McGovern Science and Society Award](#) given by Sigma Xi, the Scientific Research Society.

## SHARON MOSHER

*American Geosciences Institute; The University of Texas at Austin*



Sharon Mosher is Dean of the Jackson School of Geosciences at The University of Texas at Austin and has held this position since 2009. She is a professor and holder of the William Stamps Farish Chair and has been a faculty member at the university since 1978. Dr. Mosher's expertise is in structural geology, structural petrology, and tectonics. Her primary research interests are in deformation along plate boundaries, the evolution of complexly deformed terranes, strain analysis, deformation mechanisms, and the interaction between chemical and physical processes during deformation. She has supervised 19 Ph.D. and 35 M.S. students and was field camp director for 15 years. She was chair of the Department of Geological Sciences from 2007-2009. Mosher received her Ph.D. in Geological Sciences from the University of Illinois at Urbana in 1978 and M.Sc. from Brown University in 1975.

Mosher was President of the American Geoscience Institute (AGI) in 2012-13, President of the Geological Society of America (GSA) in 2000-2001, and 2004 Chair of the Council of Scientific Society Presidents, an organization representing ~1.5 million scientists nationwide. She is a founder and past chair of the board for GeoScienceWorld, an international journal aggregation for geoscientists. She is an active member in many geoscientific societies including GSA, the American Geophysical Union (AGU), and the American Association of Petroleum Geologists (AAPG). She is a fellow of the Geological Society of America, from which she received the Distinguished Service Award in 2003, an honorary fellow of the Geological Society of London, and recipient of the Association of Women Geologists Outstanding Educator Award (1990). In 2016 she was awarded the Alumni Achievement Award from her alma mater, the College of Liberal Arts at the University of Illinois at Champaign/Urbana.

## KATHIE OLSEN

*Founder, Managing Director of KLO International, LLC.*



The Honorable Dr. Kathie L. Olsen Ph.D. is the Director for Research Advancement in the Washington Office of the University of Notre Dame. She is also the Founder, Managing Director of KLO International, LLC.

Dr. Olsen served over 20 years in the federal government in a variety of scientific leadership positions, including the Deputy Director and Chief Operating Officer of the National Science Foundation (NSF); Associate Director and Deputy Director for Science of the Office of Science and Technology Policy (OSTP) in the Executive Office of the President; Chief Scientist for the National Aeronautics and Space Administration (NASA) and the Acting Associate Administrator for NASA's Biological and Physical Research Enterprise. She also was the Vice President for International Programs at the Association of Public and Land-grant Universities (APLU), a non-profit organization and served as the Founder and Managing Director of ScienceWorks International, a consulting firm.

Dr. Olsen earned a B.S. in Biology and Psychology with honors and inducted into Phi Beta Kappa from Chatham College and a Ph.D. in Biology (Neuroscience) from the University of California, Irvine. Her Postdoctoral Fellowship was in the Department of Neuroscience at Children's Hospital of Harvard Medical School. Dr. Olsen began her academic career as Assistant Professor in the Department of Psychiatry and Behavioral Science at the Medical School of the State University of New York, Stony Brook. She also was Adjunct Associate Professor at the George Washington University and Affiliate Professor of Neuroscience at the Krasnow Institute for Advanced Study, George Mason University. Her research on neural and genetic mechanisms underlying development and expression of behavior was supported by the National Institutes of Health (NIH).

## PETER RECZEK

*Executive Director, Standards Coordinating Body for Regenerative Medicine*



Dr. Peter Reczek is a biotechnology entrepreneur and consultant whose main focus is in the development of new drugs and the policies that incentivize and enable that development. He received his PhD in Biophysics from the Roswell Park Comprehensive Cancer Center in Buffalo, NY where he worked as a faculty member in the Biophysics Department as well as serving as the founding director of the Technology Transfer Office and the Office for Research Subjects Protection.

Dr. Reczek has a passion for the communication of the excitement of scientific discovery to the general public. He has written for such publications as *Science Magazine* and a variety of high impact technical journals and has taught at the University of Buffalo, Roswell Park, Harvard Medical School, and Dartmouth College. He currently teaches scientific writing and Biology at the Catholic University of America in Washington, DC.

In addition to writing and teaching, Peter has developed a strong interest in science policy. He is the former Executive Director of the New Jersey Commission on Science and Technology and was Chief Science and Technology advisor to New Jersey Governor Jon Corzine. Expanding his expertise in science policy, Dr. Reczek was named *American Association for the Advancement of Science Fellow in Science and Technology Policy* where he was assigned to the Director's Office of Science Policy at the National Institutes of Health. In that role he was awarded the NIH Director's Citation of Excellence for work on the genomic data sharing plan and the reform of the FDA Common Rule for the execution of Clinical Trials.

Currently, Dr. Reczek serves as Executive Director of the Standards Coordinating Body for Regenerative Medicine working in collaboration with the National Institute of Standards and Technology and the FDA to insure the highest quality science and technology are brought to bear on the testing and manufacturing of cutting edge therapies to combat human disease.

## JENNIFER SCOTT

*Managing Director, Thought Leadership, Ogilvy USA*



Jennifer Scott provides counsel to organizations, corporations and governments on how to engage audiences with authentic and relevant communications that are tuned to broader social, business and cultural dynamics.

Over the past 20 years, Jennifer has applied intelligence-driven communications strategy to enhance corporate reputation, manage crisis response, strengthen new and established brands, advocate for public policy initiatives and inspire behavior change. She has worked on the branding and positioning of various consumer products and services for companies such as Motorola and LG Electronics, and on the development and evaluation of educational media products for Sesame Workshop, Scholastic and PBS.

Jennifer has developed communications campaigns in support of public health and safety initiatives for the NIH, CDC and the World Bank, as well as employee branding and engagement for clients including Amazon, Corteva Agriscience and the American Red Cross. She has also provided strategic consulting on foreign and domestic public policy environments for clients including the Association of American Railroads, the College of American Pathologists, USAID in Russia and Romania, the Government of Norway and the Government of Greece.

She has worked with clients - including the Government of Mexico, Lenovo, Unilever and American Express - to enhance reputation, develop thought leadership, strengthen competitive advantage and manage crises.

Previously, Jennifer led Ogilvy's Research & Intelligence practice, and prior to that, was General Manager of the New York office of Ogilvy PR and Global MD for Strategy+Planning at Ogilvy PR. Prior to joining Ogilvy, she was President of Edelman Intelligence.

Jennifer received her B.A. (Hons.) in Politics and Psychology from the University of KwaZulu-Natal in South Africa. A recipient of the Patrick and Margaret Flanagan Scholarship, she earned a Doctorate in Politics from the University of Oxford, England.

## PATRICIA SIMMONS

*Science & Technology Policy Fellow, AAAS (2016-2018)*



Patricia Simmons recently concluded a Science & Technology Policy Fellowship at the American Association for the Advancement of Science, working in the Engineering Directorate at the National Science Foundation. Her academic positions have included Professor and Head of the Department of STEM Education at North Carolina State University, the Orthwein Professorship of Life-long Learning in the Sciences at the University of Missouri-St. Louis, Professor at the University of Georgia, and High School Science Teacher in Missouri. Much of her scholarship has focused on the role of technology as viable and valuable learning and research tools in science education, and more recently on policy in science and in STEM education. Her professional contributions include more than 200 publications and presentations at international and national meetings in science and STEM education (i.e., World Conference on Computers in Education, International Federation for Information Processing, Australian Science Education Association, AAAS,

NARST, AERA, NCTM, Taiwanese K-9 Science Education Conference, International Institut for die Pedagogie der Naturwissenschaften, Siemens Foundation Panel on Eliminating Disparity/Encouraging Diversity in STEM, National Forum on Education, STEM Education Roundtable on the Role for Higher Education, Association for Information Technologies, Journal of Research in Science Teaching, Science Education, The Science Teacher). Simmons was awarded over \$50 million in externally funded federal and private grants for research, teacher education, and education projects. Simmons has served as Chair of the Council of Scientific Society Presidents, President of the National Science Teachers Association, and President of the Association for Science Teacher Education. She received awards for excellence in teaching and in science education at UGA (Lily Teaching Fellowship), UMSL (Outstanding Faculty), ASTE (Outstanding Science Teacher Educator), and NSTA (two Gustav Ohaus Awards for Outstanding College Science Teaching), and the NSTA Distinguished Service to Science Education.

## CHRISTOPH THAISS

*Assistant Professor, Perelman School of Medicine, University of Pennsylvania*



**Bio** Christoph A. Thaiss is an Assistant Professor at the Microbiology Department of the Perelman School of Medicine at the University of Pennsylvania. He performed his undergraduate studies in Molecular Biomedicine at the University of Bonn, Germany and his MSc. studies in Microbiology and Immunology at Yale University and ETH Zurich, Switzerland. After a short-term scholarship at the Broad Institute of MIT and Harvard, he performed his graduate studies at the Weizmann Institute of Science in Israel, with a visiting fellowship at Stanford University. After completion of his graduate work, he established his research group at the University of Pennsylvania. His lab studies the role of host-environment interactions in metabolic and inflammatory diseases, with a particular focus on the role of the intestinal microbiota in the regulation of host physiology

**Abstract** Many modern human disease, including obesity and diabetes, neurodegenerative diseases, chronic inflammatory diseases and cancer, are strongly shaped by lifestyle and environmental influences. The molecular pathways by which environmental facts shape our propensity for these diseases, however, remain poorly understood. We have recently discovered several mechanisms by which the intestinal microbiome mediates the impact of lifestyle elements on host physiology, with a particular focus on metabolic diseases, such as obesity, diabetes, and other manifestations of metabolic syndrome. Identifying the microbiome-derived molecules that are involved in the control of host physiology and in the molecular etiology of human disease bears great potential for the discovery of new treatment approaches.

## DAVID TITLEY

*Professor of Practice in Meteorology, Pennsylvania State University*



David Titley is a Professor of Practice in Meteorology and a Professor of International Affairs at the Pennsylvania State University. He is the founding director of Penn State's Center for Solutions to Weather and Climate Risk. After graduating from Penn State, Titley served as a naval officer for 32 years and rose to the rank of Rear Admiral. Dr. Titley's career included duties as commander of the Naval Meteorology and Oceanography Command, and Oceanographer and Navigator of the Navy. While serving in the Pentagon, Dr. Titley initiated and led the U.S. Navy's Task Force on Climate Change. After retiring from the Navy, Dr. Titley served as the Deputy Undersecretary of Commerce for Operations, the chief operating officer position at the National Oceanic and Atmospheric Administration.

In 2017 Dr. Titley gave a TED talk on Climate Change and National Security that has been viewed over 1 million times. He serves on numerous climate and security related advisory boards and National Academy of Science (NAS) committees; he currently chairs the National Academies of Science, Engineering and Medicine Climate Communication Initiative advisory committee, and is a member of the NAS Board on Atmospheric Sciences and Climate. He has testified numerous times before various U.S. House and Senate Committees and before the Australian Senate. He received an honorary Doctorate degree from the University of Alaska Fairbanks and is a Fellow of the American Meteorological Society

## MARY WOOLLEY

*President, Research!America*



Mary Woolley is the president of Research!America, the nation's largest not-for-profit alliance working to make research to improve health a higher national priority. Woolley is an elected member of the National Academy of Medicine and served two terms on its Governing Council. She is a Fellow of the American Association for the Advancement of Science and serves on the National Academy of Sciences Board on Higher Education and the Workforce, having previously served on the Board of Life Sciences. She is a Founding Member of the Board of Associates of the Whitehead Institute for Biomedical Research and a member of the University of Chicago Division of the Biological Sciences and the Pritzker School of Medicine Council. Woolley holds honorary doctoral degrees from Wayne State University and the Northeast Ohio Medical University (NEOMED). Woolley has also served as president of the Association of Independent Research Institutes, as a reviewer for the National Institutes of Health and National Science Foundation, and as a consultant to several research organizations. She has a 30-year publication history on science advocacy and research related topics, and is a sought-after speaker, often interviewed by science, news, and policy journalists.

# Council of Scientific Society Presidents

## 2019

### AWARD HONOREE

DR. WILLIAM HAMMACK

Recipient of the **CSSP 2019 CARL SAGAN AWARD.**

The award is given annually by the society to recognize an individual for outstanding achievement in improving the public understanding and appreciation of science.



Bill Hammack is the William H. and Janet G. Lycan Professor at the University of Illinois — Urbana-Champaign. As an engineer his mission over the last twenty years has been to inform the public about engineering and science. His media work explaining fundamental science and its application through engineering — from his work in public radio to his pioneering use over the last decade of internet-delivered video — has been listened to or viewed over fifty million times. In clear, accessible, but technically accurate language, he has excited the next generation of engineers and scientists, and aided the public in appreciating the impact of science and engineering in our society and economy. *Make* magazine described Bill as a “brilliant science and-technology documentarian” noting that his short films “should be held up as models of how to present complex technical information visually.” *Science* magazine said “Bill Hammack can rhapsodize over the clever design of a soda can or a Scotch tape dispenser.” *Wired* called the videos “dazzling.”

Bill earned a B.S. in Chemical Engineering at Michigan Technological University, and a M.S. and Ph.D. in Chemical Engineering at the University of Illinois — Urbana-Champaign. He taught at Carnegie Mellon for a decade before returning, in 1999, to the University of Illinois, where he now teaches in the Department of Chemical and Biomolecular Engineering. He lives in Urbana, Illinois with his wife and two sons.

His work has received nine national awards from a diverse group of scientific, engineering, and journalistic societies. His work has been recognized by two scientific societies: the American Chemical Society's *Grady-Stack Award for Interpreting Chemistry to the Public*, and the American Institute of Physics *Science Writing Award*. His radio work has also been recognized with four awards by his engineering peers – the American Institute of Chemical Engineer's *Service to Society Award*, the American Society of Mechanical Engineer's *Edwin F. Church Medal*, the American Society for Engineering Education's *President's Award*, and the Institute of Electronics and Electrical Engineer's *Award for Distinguished Literary Contributions Furthering the Public Understanding of the Profession*. His radio work has been recognized by his journalistic peers via the *Science-in-Society Award* from the National Association of Science Writers; the *Silver Reel for National News and Commentary* from the National Federation of Community Broadcasters. Additionally he has been elected a fellow of the American Physical Society and the American Society for the Advancement of Science.



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