



**2021 SPRING
LEADERSHIP WORKSHOP**
1-4 MAY 2021 · VIRTUAL MEETING

PARTICIPANT AND SPEAKER BIOGRAPHIES



DAINA DRAVNIIEKS APPLE

Society of American Foresters

Daina Dravnieks Apple is a natural resource economist who served in the U.S. Forest Service for 39 years. She was Director of Knowledge Management and Communication in the Research and Development division in Washington DC and was responsible for managing R&D relationships with science organizations and advising on emerging issues likely to affect Forest Service R&D. She served as Designated Federal Official For the Forestry Research Advisory Council that reports to the Secretary of Agriculture and to Congress; and as executive secretary of the OSTP Committee on Environment, Natural

Resources and Sustainability.

Apple led the first Forest Service pilot forest certification program with the Pinchot Institute, that evaluated whether forestry management practices promoted sustainable forest ecosystems; served as regional land use appeals manager in CA; was National Forest System strategic planner; and published papers on water resource policy.

Apple was elected Fellow of the Society of American Foresters; Fellow of Phi Beta Kappa, and served as President of Phi Beta Kappa Northern California Association, and as National Secretary. She is a graduate of the University of California at Berkeley, where she earned a B.Sc. in Political Economy of Natural Resources, and an M.A. in Geography.

Apple is currently a Planning Commissioner for the city of Benicia, CA.



MARTIN APPLE

American Institute of Chemists

Dr. Apple has pioneered areas of biochemistry, pharmaceuticals, artificial intelligence, sustainable agriculture, systems of systems science, behavioral economics, green chemistry, teacher education and medicine. He initiated a world pioneering research institute in molecular genetics to improve yield and nutrient quality of food plants, led a program to one of the first patented computer-assisted receptor-based drug designs, discovered new molecular tools to modify gene regulation, designed pioneering injectable systems for specific delivery of any drug to a designated specific tissue, designed, engineered and led

a team that built the pioneering model of a pocket-size artificial kidney dialysis machine, initiated and led a special team into pioneering new cyber-security strategies, and managed – led several national scale long term NSF-funded studies of science teacher education. He was instrumental in the startup of five high tech companies.



DAVID BALTENSPERGER

Soil Science Society of America (SSSA)

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.

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LINDA BIRNBAUM

National Toxicology Program Laboratory

Linda S. Birnbaum, Ph.D., D.A.B.T., A.T.S. is the former Director of the National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health, and the National Toxicology Program (NTP). After retirement, she was granted scientist emeritus status and still maintains a laboratory. As a board-certified toxicologist, Birnbaum served as a federal scientist for 40 years. Prior to her appointment as NIEHS and NTP Director in 2009, she spent 19 years at the U.S. Environmental Protection Agency (EPA), where she directed the largest division focusing on environmental health research.

Birnbaum has received many awards and recognitions. In 2016, she was awarded the North Carolina Award in Science. She was elected to the Institute of Medicine of the National Academies, one of the highest honors in the fields of medicine and health. She was also elected to the Collegium Ramazzini, an independent, international academy comprised of internationally renowned experts in the fields of occupational and environmental health and received an honorary Doctor of Science from the University of Rochester and a Distinguished Alumna Award from the University of Illinois. She has also received Honorary Doctorates from Ben-Gurion University, Israel, and Amity University, India; the Surgeon General's Medallion 2014; and 14 Scientific and Technological Achievement Awards, which reflect the recommendations of EPA's external Science Advisory Board, for specific publications.

Birnbaum is an active member of the scientific community. She was vice president of the International Union of Toxicology, the umbrella organization for toxicology societies in more than 50 countries, and former president of the Society of Toxicology, the largest professional organization of toxicologists in the world. She is the author of more than 1000 peer-reviewed publications, book chapters, abstracts, and reports. Birnbaum's own research focuses on the pharmacokinetic behavior of environmental chemicals, mechanisms of action of toxicants including endocrine disruption, and linking of real-world exposures to health effects. She is an adjunct professor in the Gillings School of Global Public Health, the Curriculum in Toxicology, and the Department of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill, as well as in the Integrated Toxicology and Environmental Health Program at Duke University where she is also a Scholar in Residence.

A native of New Jersey, Birnbaum received her M.S. and Ph.D. in microbiology from the University of Illinois at Urbana-Champaign.



SARAH BOWMAN

American Crystallographic Association

My research interests include developing new methods for crystallization of biomolecules, new methods for detection of nanocrystals, and new methods for in situ X-ray data collection. My research lab is interested in developing new methods that combine crystallographic and spectroscopic approaches to answer fundamental questions about protein biochemistry, especially in proteins that contain metals. We are working to develop spectroscopic methods for single crystals (electron paramagnetic resonance, UV-visible microspectrophotometry, and energy dispersive X-ray spectroscopy for elemental analysis)

to be used in parallel with crystallography. My lab is especially interested in investigating proteins that are important in neurodegenerative diseases



DEBORAH BRONK

Association for the Sciences of Limnology and Oceanography

Dr. Deborah Bronk is the President and CEO of the Bigelow Laboratory for Ocean Sciences. She is an oceanographer who spent 23 years as a professor and researcher. She is also the past president of the Association for the Sciences of Limnology and Oceanography (ASLO), the past director of the Division of Ocean Sciences at the National Science Foundation (NSF), and a former chair, treasure and member-at-large of CSSP.



SYLVIA BROUDER

American Society of Agronomy

Sylvie Brouders (PhD, Ecology, University of California-Davis; Professor of Agronomy) research addresses nutrient stewardship in agricultural landscapes and application of emerging digital tools and novel statistical approaches to improve data use for evidence-based recommendations and policy in a changing climate. She is Director of the Water Quality Field Station, an in-field laboratory and Purdue University Core Facility. She currently serves as President for the American Society of Agronomy (ASA). She was elected ASA Fellow (2005), named a Purdue Wickersham Chair of Excellence in Agriculture Research (2012), and elected Fellow of the American Association for the Advancement of Science (2017).



MALCOLM BUTLER

Association for Science Teacher Education

Malcolm B. Butler, Ph.D., is Professor of Science Education in the School of Teaching, Learning and Leadership at the University of Central Florida, in Orlando. In addition to his faculty role, Dr. Butler is also Program Coordinator for the Bachelors and Masters Programs in Secondary Science Education. He is the current President of the Association for Science Teacher Education (ASTE), an international organization for professionals who are involved in the preparation and development of teachers of science at all levels. His teaching and research interests include multicultural science education, science and underserved students, K-12 pre-service and in-service science teacher education, environmental education and physics education. His work has been published in journals such as the Journal of Research in Science Teaching, the Journal of Science Teacher Education, Science Activities, the International Journal of Environmental and Science Education, and the Journal of Multicultural Education. His teaching and research have been generously supported by the National Science Foundation, the Environmental Protection Agency and the US Department of Education. Dr. Butler is also one of the authors of National Geographic Learning's National Geographic Science, and Exploring Science, two national elementary science curriculum programs, as well as the book, Teaching Science to English Language Learners, published by Routledge.



RICH CARTER

Valliscor

Rich G. Carter is Professor of Chemistry and Faculty Lead for Innovation Excellence at Oregon State University (OSU). His career spans academia & industry. At OSU, he currently works in the OSU Research Office to foster a culture of innovation and entrepreneurship across the OSU footprint. He served as Department Chair of Chemistry for over 5 years and has run an externally funded research group for over 15 years. In addition, he is co-founder and CEO of a successful chemical manufacturing company called Valliscor that specializes in fluorinated materials for the pharmaceutical industry.



H. N. CHENG

American Chemical Society

H. N. Cheng (B.S., UCLA; Ph.D. Univ. of Illinois at Urbana-Champaign) is 2020 President-Elect of American Chemical Society (ACS) and will serve as ACS President in 2021. He has been active in the ACS for many years and has served in leadership positions in numerous ACS committees and task forces. He works at USDA Southern Regional Research Center, where he is involved with sustainability and green chemistry as a product development platform. Prior to 2009, he was with Hercules Incorporated (now Ashland, Inc.) in Wilmington, Delaware, where he held various R&D and managerial positions.



KERRY H. COOK

Jackson School of Geosciences, Univ. of Texas at Austin

Kerry Cook came to The University of Texas at Austin in August, 2008. She began her career at NOAA's Geophysical Fluid Dynamics Lab at Princeton University, followed by 18 years as a professor at Cornell University where she taught courses in Climate Dynamics, Atmospheric Dynamics, and Atmospheric Physics and was a founder of the Science of Earth Systems major. She is a Fellow of the American Meteorological Society, and has served on the Board of Trustees of the University Corporation for Atmospheric Research and as an editor of the Journal of Climate. She is currently the Chair of the American Meteorological Society's Board of Climate Variability and Change and serves on the NSF GEO Advisory Council.

Dr. Cook's research centers on predicting and understanding climate change and climate variability around the world, including Africa, South America, the central U.S., and home in Austin, TX. She and her group use numerical models of the climate system, including atmosphere, ocean, and vegetation components, along with observational analysis to improve our understanding about how features and processes at the earth's surface interact with atmospheric circulation and precipitation fields.

In 2020 Dr. Cook was presented with the Joanne Simpson Tropical Meteorology Research Award from the American Meteorological Society for her outstanding contributions to advancing the understanding of the physics and dynamics of the tropical atmosphere. She has published a text on Climate Dynamics (2013, Princeton University Press); a second edition is expected in 2021.



JOHN DOWNING

Association for the Sciences of Limnology and Oceanography and Minnesota Sea Grant

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.



BARB DUTROW

Geological Society of America

Professor Barb Dutrow is a geoscientist specializing in mineralogy and metamorphic petrology at Louisiana St. Univ. Currently she is President-elect of the Geological Society of America (2021), a Past-President of the Mineralogical Society of America (2007), and is on the Board of Governors of the Gemological Institute of America (2016--2025; chair of Governance Committee).

KSENIJA GASIC

National Association of Plant Breeders



JUDY C. GIORDIAN

ecosVC/American Chemical Society

Judy Giordian is currently Managing Director of ecosVC, Inc., co-founder of the Chemical Angels Network, a venture founder, and candidate for ACS PRES-Elect for 2022. Previously she was a Fortune 500 executive. Judy serves as board member, co-founder, advisor and investor in seed and early-stage start-ups.

Previous corporate executive positions include Corporate Vice President/Global Director of R&D at International Flavors and Fragrances; Vice-President Worldwide R&D for the Pepsi-Cola Company; Vice President R&D at Henkel Corporation, the North American operating unit of the Henkel Group. Judy is co-founder of ventures in areas including biofuels, education and executive search.



MICHAEL GRUSAK

Crop Science Society of America

Dr. Mike Grusak is a USDA, Agricultural Research Service scientist and the Center Director of the Red River Valley Agricultural Research Center in Fargo, North Dakota. He leads a program consisting of five research units where scientists encompass expertise ranging from crop plants to insects to food safety. The Center's broad mission is to solve problems that will help farmers produce a safe, nutritious, and sustainable food supply. Prior to his appointment as Center Director in 2017, Dr. Grusak served as a Research Plant Physiologist at the USDA-ARS Children's Nutrition Research Center (CNRC) in Houston, TX and

a Professor of Pediatrics at Baylor College of Medicine. He joined the CNRC in 1990 to develop an interdisciplinary program to link plant science and production agriculture with human nutrition concerns. His research involves understanding ways to enhance the nutritional quality of plant foods for human or animal consumption. His group also has contributed to clinical investigations by providing stable isotope-labeled plant material to study nutrient bioavailability and metabolism in humans. Dr. Grusak received his Ph.D. in Botany from the University of California-Davis. His research has been funded by USDA, NSF, NIH, the US Agency for International Development, and the Bill and Melinda Gates Foundation. In 2016, he served as President of the Crop Science Society of America



EMILY HAMMOND

The George Washington University Law School

Dean Emily Hammond began serving as Senior Associate Dean for Academic Affairs in 2019. Dean Hammond is a nationally recognized expert in energy law, environmental law, and administrative law. A former environmental engineer, Dean Hammond brings technical fluency to cutting-edge issues at the intersection of law, science, and policy. Their scholarship focuses on the regulatory process, the responses of various legal institutions to scientific uncertainty, electricity markets, climate change, and the law of water quality.

Dean Hammond's articles have appeared in numerous top-ranked journals, including the *Columbia Law Review*, the *Duke Law Journal*, the *Michigan Law Review*, and the *Vanderbilt Law Review*. They are a co-author of one of the nation's leading energy law texts, *Energy, Economics and the Environment*, and the environmental law text *Environmental Protection: Law and Policy*, in addition to a variety of book chapters and shorter works. Dean Hammond's current projects include an examination of administrative law in regional and local offices, and a book project that explores how federal energy and environmental laws have enabled, shaped, and hindered grassroots resistance movements in Central Appalachia.

An elected member of the American Law Institute, Dean Hammond is also past Chair of the American Association of Law Schools' Administrative Law Section and a Member Scholar of the Center for Progressive Reform. They have consulted on various energy, environmental, and administrative law matters, authored amicus briefs, and testified before Congress on these issues. Dean Hammond actively collaborates with other researchers from a variety of disciplines and is a past Distinguished Young Environmental Scholar recipient at the Stegner Center, University of Utah. An energetic and dedicated teacher, they were awarded the Distinguished Faculty Service Award by the graduating class of 2018.

Prior to joining the GW law faculty, Dean Hammond served on the faculties at Wake Forest University and the University of Oklahoma College of Law, where they served as Associate Dean for Academic Affairs and Associate Director of the Law Center. They have visited at the University of Texas, Florida State University, and the University of Georgia. Before entering academia, Dean Hammond practiced law with Bondurant, Mixson & Elmore in Atlanta, Georgia, and clerked for Judge Richard W. Story of the US District Court for the Northern District of Georgia.

STEPHANIA HERRERA

SACNAS



G. WARFIELD "SKIP" HOBBS

American Geosciences Institute

G. Warfield "Skip" Hobbs is a geologist and the managing partner of Ammonite Resources, a global energy and mineral resource consulting firm which he founded in 1982. He is a Fellow of the Geological Society of America, Honorary Member of the American Association of Petroleum Geologists, and served as president of the American Geoscience Institute in 2011. Skip is an alumni member of the CSSP and the chairman of the CSSP Committee on Government and Public Affairs.



CATE JOHNSON

House Science, Space and Technology Committee

Catherine (Cate) Johnson is a Senior Professional Staff Member, working for Ranking Member Frank Lucas (R-OK) on the House Science, Space and Technology Committee. She joined the Committee in December 2017 as a Professional Staff Member and handles the legislative jurisdiction and general oversight of the National Science Foundation (NSF), the National Institute of Standards and Technology (NIST), and the science, technology, engineering and mathematics (STEM) education programs at federal science agencies. Prior to joining the Committee, Cate spent three years as the Assistant Director of Federal Relations for the University of Wisconsin – Madison and, prior to that, over five years in the office of Congressman Thomas E. Petri (R-WI). She earned a B.A. degree in history and political science from the University of Wisconsin-Madison.



LUCINDA JOHNSON

Society for Freshwater Science

Dr. Lucinda Johnson was President of Society for Freshwater Science (2010-2011); she is an aquatic and landscape ecologist whose research is at the intersection of science, policy, and management. Johnson serves on the Bd of CSSP, the Intl Joint Commission's Sci Adv Bd, and the EPA's Board of Scientific Counselors, and was recently appointed to the Minnesota Governor's Climate Change Advisory Council. Dr. Johnson is Dir of Research at the Natural Resources Research Inst of the Univ of Minnesota Duluth.



TYLER JONES

NPR

Tyler Jones is currently a freelancer working for the NPR Scicomms Science Communication Collective and is using her time there to explore how storytelling builds community and fosters connection.

With the NPR Scicomms, Tyler has taken over the coordination of the popular Writers Program and Mentor Chats, and works toward making a safe space for those interested in science communication to explore that interest.



LISA KEEFE

American Crystallographic Association

Dr. Keefe is a biophysicist whose work focuses on accelerating drug discovery through synchrotron-based structural biology. She is Vice President for Advancing Therapeutics at the Hauptman-Woodward Medical Research Institute (HWI) in Buffalo, NY, and Director of the Industrial Macromolecular Crystallography Association – Collaborative Access Team (IMCA-CAT) located at the Advanced Photon Source, Argonne National Laboratory in Illinois. Through her leadership, IMCA-CAT has developed into a world-class research facility for the pharmaceutical industry.

CARRIE LABOSKI

Soil Science Society of America



LAURA MCCONNELL

Bayer U.S. LLC Crop Science Division

Dr. McConnell is an analytical chemist with more than 25 years of experience in environmental and agricultural science research. She currently serves as a Principal Scientist in the Regulatory Scientific Affairs group at Bayer CropScience in St. Louis, Missouri. Her role at Bayer focuses on communication, collaboration and engagement with the scientific community on topics relevant to the regulation of agricultural technologies.

Previously, she was a Research Chemist and Lead Scientist in the USDA-ARS where she specialized in the investigation of the chemical and physical processes controlling the environmental fate of agriculturally-relevant pollutants. A primary focus of her research was the development of improved conservation practices to mitigate pollutant transport and to provide ecosystem services.

Dr. McConnell has authored more than 100 peer-reviewed journal articles and has mentored many undergraduate students, graduate students and post-doctoral/visiting scientists. She has served on science-related advisory panels for the US Environmental Protection Agency and the European Food Safety Authority. She continues to collaborate with USDA and University of Maryland College Park colleagues where she has an adjunct research faculty appointment.



CRAIG MCLEAN

NOAA - OAR Headquarters

Craig McLean is the Assistant Administrator for NOAA's Oceanic and Atmospheric Research (OAR) office. He is responsible for overseeing, directing and implementing NOAA's research enterprise including a network of research laboratories and the execution of NOAA programs including the Climate Program, National Sea Grant College Program, and Ocean Exploration, to name a few. Among a number of formal international engagements in science and technology, Mr. McLean serves as the U.S. Representative to the Intergovernmental Oceanographic Commission (IOC) and as a member of the

World Meteorological Organization's Research Board.

Mr. McLean has previously served in NOAA as Acting Deputy Assistant Administrator of the National Ocean Service, was the founding Director of OAR's Office of Ocean Exploration and Research and served in uniform for nearly 25 years in NOAA's Commissioned Corps, attaining the rank of Captain. Mr. McLean served aboard hydrographic, oceanographic, and fisheries research ships and was the first commanding officer of the NOAA Ship Gordon Gunter. He led NOAA's innovation and planning for the Smithsonian Institution's Sant Ocean Hall, and achieved a National Ocean Action Plan goal of securing a permanent, dedicated ship for the National Ocean Exploration Program, the NOAA Ship Okeanos Explorer. Craig is also an attorney and has practiced marine resource law for NOAA. He has been awarded the Department of Commerce Silver and Bronze Medals, the NOAA Corps Commendation Medal, and Special Achievement Medal. Most recently, he was awarded the Compass Distinguished Achievement Award from the Marine Technology Society. Mr. McLean is a Fellow of the Explorers Club, and of the Marine Technology Society, and a past-president and chairman of the Sea-Space Symposium.



ROXANE MARANGER

Association for the Sciences of Limnology and Oceanography

Roxane Maranger is currently the President of the Association of the Sciences of Limnology and Oceanography (ASLO) and a professor in aquatic ecosystem ecologist at the Université de Montréal, the second largest French Language university in the world. ASLO has around 4000 members from 70 countries, and focuses on both marine and freshwaters- from streams to the open ocean which is unique. Her own research program generally addresses how diverse anthropogenic pressures influence water quality.

ALISON MIZE

Ecological Society of America (ESA)

PATRICIA MORRIS

Federation of American Societies for Experimental Biology (FASEB)



SHARON MOSHER

American Geoscience Institute

Dr. Sharon Mosher is the William Stamps Farish Chair and Professor at The University of Texas at Austin and was Dean of the Jackson School of Geosciences for over a decade. She was President of the American Geoscience Institute (AGI), President of the Geological Society of America (GSA), and Chair of the Council of Scientific Society Presidents. She is a founder and past Chair of the Board for GeoScienceWorld, an international journal aggregation for geoscientists. She is the 2020 Marcus Milling Legendary Geoscientist Medalist awarded by the American Geoscience Institute.



KARL MUNDORFF

Oregon State University, College of Engineering

Karl Mundorff is Executive Director, Innovation and Entrepreneurship at Oregon State University where he has been co-leading with Rich Carter, a national effort to inclusively recognize Innovation and Entrepreneurship as part of universities Promotion and Tenure practices and policies. As the ED for I&E, Karl's work is at the interface of innovation and research impact.

SETH MURRAY

Crop Science Society of America (CSSA)



CRISTINA NEGRI

Argonne National Laboratory

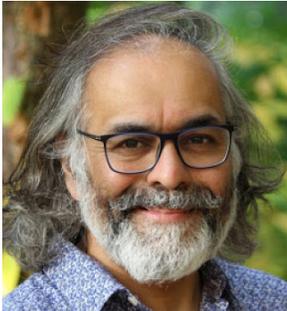
Cristina Negri is the Director of the Environmental Science (EVS) Division. As the Director of a scientific Division of 70+ staff, her current interests are in leading the development and execution of its strategic programmatic direction inclusive of a diverse research portfolio in environmental sciences. In her more than 25 years as a scientist at Argonne, she conducted and directed laboratory to full-scale multidisciplinary projects developing technologies and concepts for environmental remediation and stewardship, including soil remediation and water treatment. She has researched sustainable technologies for urban and agricultural environmental improvement.

Cristina's research to integrate bioenergy within working agricultural landscapes addresses the food, energy, water, and land nexus. Her work focuses on developing sustainable, multifunctional landscape concepts, which aim, by de-

sign, at the creation of ecosystems services. Her interests are in systems approaches where industrial ecology concepts are applied to water and land management and green infrastructure.

Cristina is a Fellow with CASE at the University of Chicago. She is also a Fellow of the Northwestern University—Argonne Institute of Science and Engineering. She earned her Dottore in Scienze Agrarie Degree (Agricultural Sciences) at the University of Milan in Milan, Italy.

Prior to joining Argonne, Cristina worked in private industry in Italy as a research and development manager and as a liaison with universities and other Italian national research organizations. Her research focused on developing methods for the sustainable, beneficial reuse of industrial and urban waste and for pollution mitigation in agriculture. She also served as the Convener of a CEN (the European Standardization Organization) Working Group, leading experts from European Union Nations toward the creation of European environmental standards for agricultural commodities.



DEV NIYOGI

Jackson School of Geosciences

Dev Niyogi is the John E. “Brick” Elliot Centennial Endowed Professor, Department of Geological Sciences, Jackson School of Geosciences, and Department of Civil, Architectural and Environmental Engineering, Cockrell School of Engineering, The University of Texas at Austin.

He also serves as Professor Emeritus, Purdue University with Joint appointments in Department of Agronomy- and Department of Earth, Atmospheric, and Planetary Sciences, and is also with Division of Ecological and Environmental Engineering (Courtesy). He

has been the former Indiana State Climatologist (2005- 2018).

Dev Niyogi’s research seeks to significantly contribute to our understanding of the Earth system, particularly the urban and agricultural landscapes, and the dynamic role of coupled land surface processes on weather and regional meteorological extremes. An important ongoing and emerging focus of his research is to translate the scientific work undertaken into decision tools and portals with a particular focus on hydroclimatology and sustainable climate-ready/resilient cities.

Dr. Niyogi was the most recent chair of the American Meteorological Society (AMS) Board of Urban Environment and elected advisory board member of the International Association of Urban Climate. He is currently part of AMS Committee on Applied Climatology, and recently formed AMS-wide International Mentoring/Visitors Committee. He has been a member of the AMS Committees on Agriculture and Forest Meteorology, invited member FGDC Spatial Climate Working Group, Member of the Weather Research and Forecast (WRF) model WG-14 (land surface models), and Member of the AGU Biogeochemistry meetings group / spring meeting student awards chair. He also has a robust international network of research projects with currently active collaborators, joint students, or funded projects in India, China, Germany, Ireland, Zimbabwe, Luxembourg, and France.

Dr. Niyogi has coauthored over 210 papers for international journals, 18 book chapters, and over 150 conference proceedings or abstracts for professional conferences such as the AMS and AGU meetings. According to Google Scholar, his research has been cited over 13800 times (h-index > 55; i-index >185), and his work has been read over 55,100 times per Research Gate statistics. His work has been highlighted in various media outlets including in the popular press such as Yahoo!, MSNBC, Wired, CNN, LiveScience, National Geographic, Tedx Talk, NASA press releases.



DENNIS OJIMA

Ecological Society of America

Dr. Dennis Ojima is Emeritus Professor, Department of Ecosystem Science and Sustainability; Senior Research Scientist, Natural Resource Ecology Laboratory at Colorado State University. He has been elected to the Ecological Society of America President-Elect for 2020 to 2021. His research area involves application of social ecological system approaches to climate and land use changes on ecosystems, carbon accounting, food security, and adaptation and mitigation strategies to climate change. He co- led the effort to establish the US Future Earth hub (2013-2015).



JOE PALCA

NPR

Joe Palca is a science correspondent for NPR. He comes to journalism from a science background, having received a Ph.D. in psychology from the University of California at Santa Cruz where he worked on human sleep physiology.

Since joining NPR in 1992, Palca has covered a range of science topics — everything from biomedical research to astronomy. He is currently focused on the eponymous series, “Joe’s Big Idea.” Stories in the series explore the minds and motivations of scientists and inventors. He is also founder of the NPR Scicommers program, a collective of science communicators. Palca has also worked as a television science producer, a senior correspondent for Science Magazine, and Washington news editor of Nature.

Palca has won numerous awards, several of which came with attractive certificates. With Flora Lichtman, Palca is the co-author of *Annoying: The Science of What Bugs Us* (Wiley, 2011).



CINDY PASKA

Council of Scientific Society Presidents

As the Executive Director of the Council of Scientific Societies (CSSP), Paska views the broad spectrum of a diverse membership of scientists to work closely with the Board of Directors to successfully ensure the growth of future leaders in science.

With a background across industries, working closely with both nonprofit and for profit leaders, Paska has a proven record of bridging thinkers from multiple disciplines toward common goals. Through her intuitive perspective and ability to elicit new ways to view existing ideas and approaches, Ms. Paska’s non-scientifically conforming thought process has opened pathways about projects that might not have been considered within standard scientific disciplinary development.

Paska holds a Bachelor of Arts degree from Clark University, Worcester, MA.



HASKELL PITLUCK

American Academy of Forensic Sciences

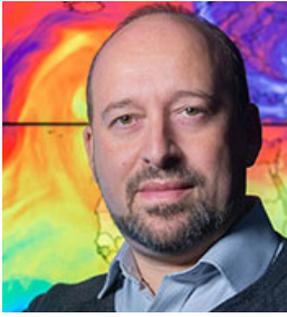
Haskell Pitluck - is a retired Circuit Court Judge of the 19th Judicial Circuit, McHenry County, Illinois. From 1995 to 1996, he was President of the American Academy of Forensic Sciences . He served as Chair of the AAFS Ethics Committee. Presently he serves on the NIST OSAC Odontology Subcommittee. Judge Pitluck is active in the Illinois Judges Association as a Board Member. Judge Pitluck has presented programs and workshops on expert witnesses and ethics at meetings and conferences both in the US as well as internationally.

SUSAN RICHARDSON

American Society for Mass Spectrometry (ASMS)

DAVID ROSE

American Crystallographic Association (ACA)



GAVIN A. SCHMIDT

NASA Goddard Institute for Space Studies

Gavin A. Schmidt a climatologist and climate modeler was recently appointed to a newly created job of climate adviser to NASA. A prominent scientist who has been warning the world about the risks of our warming planet, Dr. Schmidt is working to bring NASA's climate science to the public and helping to figure out how to apply it to saving the planet.

His main research interest is the use of climate modeling to understand past, present, and future climate change. He has authored or co-authored more than 150 research papers in peer-reviewed literature.

Dr. Schmidt previously headed NASA's Goddard Institute for Space Studies (GISS) and was Principal Investigator for the development of one of the most authoritative models of Earth's climate system the GISS ModelE Earth System Model.

A Fellow of the American Geophysical Union (AGU) and the American Association for the Advancement of Science, Dr. Schmidt was the inaugural winner of the AGU Climate Communication Prize in 2011. He also was awarded NASA's Outstanding Leadership Medal in 2017. He has a bachelor's degree in mathematics from Oxford University and a doctorate in applied mathematics from University College London.



HELEN SCHNEIDER LEMAY

Council of Scientific Society Presidents

Helen Schneider-Lemay heads the CSSP, Waterbird Society and ASLO business offices. She is also Executive Director of NARST. She is the president of The Schneider Group, Inc., an association and meeting management firm specializing in scientific societies.

HANNAH SENIOR

National Association of Plant Breeders (NAPB)



PATRICIA SIMMONS

American Association for the Advancement of Science

Patricia Simmons currently serves as the Director of STEM Special Initiatives at the NSTA. Prior to this position, she completed a Science & Technology Policy Fellowship at the American Association for the Advancement of Science (2016-2018), working in the Engineering Directorate at the National Science Foundation. 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, among many others). Simmons was awarded over \$50 million in externally funded federal and private grants for research, teacher education, and education projects.

Simmons 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.

LUTHER SMITH

American Society of Agronomy



JENNIFER TANK

Society for Freshwater Science

Dr. Jennifer Tank is the Galla Professor of Biological Sciences at the University of Notre Dame, and Director of the Notre Dame Environmental Change Initiative (ND-ECI). Dr. Tank studies how nutrients move through streams and rivers, with a focus on restoration and conservation efforts that improve water quality, especially in agricultural landscapes. Dr. Tank is committed to science leadership and translation- she is a 2013 Leopold Leadership Fellow, has served as President of the Society for Freshwater Science, and now serves as a Member-at-Large on the CSSP Executive Board.



BRIAN TOBY

American Crystallographic Association

Brian Toby is a physical chemist, with a Ph.D. from Caltech (1986) and a B.A. from Rutgers (1980). He is a Senior Physicist at Argonne's Advanced Photon Source where he previously led their Materials Characterization and Computational X-ray Science groups as well as served as Chief Computational Scientist. He previously worked at Union Carbide, U. of Penn, Air Products and then NIST. Brian has published ~150 papers with >14,000 citations and a H-index of 42. For 2020, Brian is the president of the American Crystallographic Association.



APRIL ULREY

Soil Science Society of America

I'll be president of the Soil Science Society of America in 2021 and my vision for the society is to improve diversity and reach out to more graduate students and early career soil scientists. I am a professor of soil and environmental science at New Mexico State University, Las Cruces, where I teach Soils and Soil Chemistry and co-advise our Environmental Science Student Organization. Working with students is my passion.

P.V. VARA PRASAD

Crop Science Society of America (CSSA)



JEFFREY VOLENEC

American Society of Agronomy

Dr. Jeff Volenec is a professor in the Department of Agronomy at Purdue University where his appointment encompasses all three areas of the Land Grant mission: teaching, research, and Extension. Volenec is a whole-plant physiologist/ecologist whose research focuses on the interaction of crops plants with environment and management. Volenec and collaborators study abiotic stress tolerance and input use efficiencies including water, nutrients and radiation that are critical drivers of sustainable production. His teaching responsibilities have included upper-division courses in Crop Physiology and Ecology, and Forage Management.

Volenec recently served as President of the Crop Science Society of America. Previously he served as Editor of Crop Science and as Editor-in-Chief of the Crop Science Society of America. Volenec served as Associate Head of the Agronomy Department at Purdue for 17 years. He is current chair of the Board of Trustees of the Agronomic Science Foundation. He is the recipient of numerous awards including Purdue University's Agricultural Research Award and the Young Crop Scientist Award from the Crop Science Society of America. He has been elected Fellow of the American Association for the Advancement of Science, the American Society of Agronomy, and the Crop Science Society of America. He is a five-time recipient of the Outstanding Teaching Award in the Department of Agronomy at Purdue University. Students also have twice selected him as Outstanding Counselor in the Department of Agronomy.

Dr. Volenec received his M.Sc. and Ph.D. degrees at the University of Missouri-Columbia in 1983 specializing in crop physiology where he studied leaf growth and development in grasses. He earned his B.Sc. in Agronomy/Natural Sciences at the University of Wisconsin-Madison.



MARK VREEKE

Chemical Angel Network

Dr. Vreeke is a cofounder of the Chemical Angel Network. The Chemical Angel Network provides angel investment capital for early-stage firms that converge with the chemical sector in broadly defined material, measurement and manufacturing verticals. The Network has over 100 members located in North America and the EU. The members have invested in over 40 portfolio companies of which there have been 4 positive exits. Mark's work experience covers the entire company lifecycle from startup to fortune 50. His roles have included bench scientist, entrepreneur in residence, Senior VP of R&D, CSO and high school teacher.

JOANN WHALEN

American Society of Agronomy (ASA)



PHIL WEILERSTEIN

VentureWell

Since 1996, Phil Weilerstein has been the chief executive of VentureWell, a US-based NGO formed to stimulate and support the incorporation of innovation and entrepreneurship in higher education. From the beginning, Phil's focus for VentureWell has been to help bring socially beneficial applications of science and technology-based inventions to market. He's accomplished this goal by designing and overseeing programs that encourage curricular innovation and student venture creation, provide resources and investment to researchers, faculty and student entrepreneurs, and develop community through knowledge, support and processes that enable innovation ecosystems and innovators to grow and prosper.

Phil is a Founder and Past Chair of the ASEE Entrepreneurship Division, and a recipient of the 2008 Price Foundation Innovative Entrepreneurship Educators Award, the 2014 Engineering Entrepreneurship Pioneers Award from ASEE, and the 2016 Deshpande Symposium Award for Outstanding Contributions to Advancing Innovation and Entrepreneurship in Higher Education.



JENNIFER WICKRE

Republican Deputy Staff Director, House Committee on Science, Space, and Technology at U.S. House of Representatives (Frank Lucas (OK))

Jennifer Wickre is the Republican Deputy Staff Director of the House Science, Space, and Technology Committee, where she oversees policy and legislation for Ranking Member Frank Lucas (R-OK). She joined the Committee in January 2015 as a Professional Staff Member and later served as Staff Director for the Subcommittee on Research and Technology. Jennifer was previously the Associate Director of Government Relations for the University of California, San Francisco (UCSF). Prior to joining UCSF, she spent a

decade as an aide to Rep. Jerry Lewis (R-CA) with a focus on healthcare policy and appropriations. A native Oregonian, Jennifer holds a B.A. degree in Government from Claremont McKenna College and a M.A. degree in National Security and Strategic Studies from the United States Naval War College.

JULIE WILLOUGHBY



CIRC Earth

Poly(ethylene terephthalate) (PET) is one of the most ubiquitous plastics, commonly associated with the single-use beverage bottle. Despite this, PET finds its greatest consumption worldwide as fiber for textile applications. Compared to the single-use beverage bottle, textiles are more complicated in their structure, in which PET fibers are often interwoven with other polymers (e.g. cotton, polypropylene fiber, etc.) and contain additives (e.g. colored dyes), which makes their recycling near impossible. PET textile waste is a necessary feedstock to target due to its large global consumption and its complex make-up. The fast fashion industry itself represents a 1.5 Trillion \$USD enterprise and is the second largest user of petrochemical feedstocks, right behind oil and gas. This industry is responsible for almost 10% of the world's greenhouse gas emissions and is desperately looking for a solution to turn textile waste into a viable feedstock. To exacerbate the problem, legislation and multinational initiative are indicating over a 300 million lbs. supply gap in recycled PET (r-PET), putting further economic pressure on the textile supply chains. This current model is a mine-the-earth then dispose to landfills and waterways approach, outdated and detrimental to humanity. At Circ, we capture trash and recycle repeatedly to minimize carbon emissions and leave the Earth's natural resources in nature. Our technology solution implemented at full-industrial scale has the potential to achieve cost-parity with virgin PET production and provide a new source of dissolving pulp.

Dr. Julie Willoughby joined the exciting team at Circ in November 2019. She likes to say "all roads led to Circ" after meaningful experiences in the chemical industry (Dow Corning Corporation), pulp & paper industry (MeadWestvaco), a faculty member (NCSU COT), and innovation director roles in footwear and apparel (Nike, Inc.).

The Council of Scientific Society Presidents (CSSP) acknowledges the American Chemical Society for their continued cooperation.

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