Speaker Bios Diversity Meeting #4 April 27-29, 2021

Sean Jones, Ph.D. is the Assistant Director for the Directorate of Mathematical and Physical Sciences at the National Science Foundation. With over 12 years at the NSF< Dr. Jones has served as a program director for Centers, National Facilities, sustainability efforts and broadening participation initiatives. He also served as an Assistant Director for Physical Sciences and Engineering for the White House Office of Science and Technology (OSTP) during the Obama Administration. Prior to joining NSF, Dr. Jones served as Senior Researcher at the University of Florida, Director of Engineering for Applied Plasmonics, Chair and Professor of Engineering at Norfolk State University, Senior Scientist at Luxcore Networks, and as Technical Manager and Distinguished Member of Technical Staff at Bell Laboratories of Lucent Technologies. He has authored numerous publications and has been awarded 9 U.S. patents. Dr. Jones received his B.S. in Ceramic Engineering from Clemson University and his Ph.D. in Materials Science and Engineering from the University of Florida.

Stephen Meacham, Ph.D. is the Section Head for the Integrative Activities section of the Office of Integrative Activities (OIA). During his time at NSF, Dr. Meacham has been a program officer for programs in physical oceanography, climate dynamics, mathematical geosciences, information technology research, and high-performance computing centers and facilities. Prior to joining NSF, Steve was a researcher at a private company. His research was in the area of theoretical and computational geophysical fluid dynamics. During his time with the Office Integrative Activities, Steve has coordinated a team administering a research laboratory construction program, led an internal group looking at ways of improving one of NSFs major lines of business, coordinated a program of external reviews of NSFs administration of its merit review process, co-chairs a group looking at NSFs environmental research and education portfolio, and leads the writing team for the NSFs new strategic plan.

Bernice Anderson is a Senior Advisor in the Office of Integrative Activities at the National Science Foundation (NSF). She serves as the Executive Secretary for the Committee on Equal Opportunities in Science and Engineering. Prior to these positions, she held several other leadership positions at NSF in the Directorate for Education and Human Resources, including Acting Division Director of the Human Resource Development and Senior Communications, Knowledge Management, and Analysis Advisor. Previous work experiences include a Research Scientist at Education Testing Service in Princeton, NJ, conducting multi-methods evaluations of programs focused on equity, diversity and inclusion, and a faculty member at Norfolk State University, teaching and mentoring Head Start teachers and managing teacher education grants. Her degrees are from Norfolk State University (BA, 1974), The Ohio State University (MA, 1976), and Rutgers-The State University of New Jersey (EdD, 1984).

Marie A. Bernard, MD is the Deputy Director of the National Institute on Aging (NIA) and NIH's acting Chief Officer for Scientific Workforce Diversity. As NIA's senior geriatrician, she serves as the principal advisor to the NIA director, assisting in the oversight of aging and dementia research. She also co-leads the trans-NIH Inclusion Governance Committee that ensures appropriate inclusion of individuals in clinical studies, including by sex/gender, race/ethnicity, and inclusion of children and older adults. Prior to joining NIH she was the Professor and Chairman of the Donald W. Reynolds Department of Geriatric Medicine at University of Oklahoma College of Medicine, and Associate Chief of Staff for Geriatrics and Extended Care at the Oklahoma City Veterans Affairs Medical Center. She has held numerous national leadership roles, including chair of the Clinical Medicine (now Health Sciences) Section of the Gerontological Society of America, chair of the Department of Veterans Affairs National Research Advisory Committee, board member of the American Geriatrics Society, president of the Association for Gerontology in Higher Education, and president of the Association of Directors of Geriatric Academic Programs. Her national leadership has been recognized by the Clark Tibbits award from the Academy for Gerontology in Higher Education (2013), and the Donald P Kent award from the Gerontological Society of America (2014). Her work within NIH has been recognized with NIH Director's awards (2018 and 2019), including the NIH Director's award for Equity, Diversity, and Inclusion in 2020.

Shamala Srinivas, Ph.D. is the Associate Director for Scientific Review and Policy (SRP) in the Division of Extramural Activities, NCI. She is a senior advisor to the Director, Division of Extramural Activities at the NCI on all matters pertaining to the management and enhancement of extramural policies and scientific programs. Dr. Srinivas earned her Ph.D. in chemistry from University of Louisville, Kentucky. Following graduate studies, she was a post-doctoral fellow at the Biodynamics Institute at the Louisiana State University, and at the University of Alabama at Birmingham. Prior to joining NCI in 2001, Dr. Srinivas worked at the St. Jude Children's Research Hospital, Memphis, TN where she pursued molecular biology research focused on involvement of recombinant activating genes (RAG) in the Epstein Barr Virus (EBV) integration into host chromosomes, as well as, studies related to EBV reactivation in Burkitt's lymphoma.

Caron Lyman, Ph.D. has been with the National Cancer Institute, National Institutes of Health, for the past 31 years. She currently is Chief of the Research Programs Review Branch at the NCI, which manages review of the large, multi-component applications submitted to the Institute. Prior to becoming Chief, Dr. Lyman served as a Scientific Review Officer in the Division of Extramural Activities at NCI, managing review of various mechanisms with primary focus on the large complex mechanisms, including Program Projects and Specialized Programs of Research Excellence. Dr. Lyman was an intramural scientist in the NCI Pediatric Oncology Branch for 16 years prior to joining the extramural program. Her research background is in immunology, therapeutics and infectious diseases.

Laura K. Moen, Ph.D. is Director of the Division of Extramural Research Activities (DERA). In this position, she oversees the Office of Scientific Review, the Office of Grants Management, the Office of Translational Alliances and Coordination, the Office of Extramural Policy and Training, and the Office of Committee Management for the Institute. She is also responsible for key scientific management functions, including serving as the Executive Secretary for the NHLBI Advisory Council. Dr. Moen received her B.S. in Biological Sciences from the University of Southern California in Los Angeles, and her Ph.D. in Biochemistry from the University of Virginia. Before joining the NIH, Dr. Moen was a tenured Associate Professor in the Department of Chemistry and Biochemistry at Old Dominion University (ODU) in Norfolk, Virginia. Prior to her appointment with the NHLBI, Dr. Moen worked with the National Institute of General Medical Sciences (NIGMS), the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the National Center for Complementary and Alternative Medicine (NCCAM), and most recently, the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) where she served as their Director of Extramural Research Activities. Dr. Moen has received numerous awards and honors, including NIH Director's Awards for her exceptional contributions to the Roadmap Molecular Libraries Initiative, and the agency-wide restructuring of the Division of Extramural Activities Support (DEAS). She also received the NIDDK Director's Award for her role in facilitating a comprehensive evaluation of the Institute's training activities.

Allison Gammie, Ph.D. is director of the Division of Training, Workforce Development, and Diversity, which supports the National Institute of General Medical Sciences' (NIGMS) research training, career development and diversity-building activities. Prior to coming to NIGMS, she was a Senior Lecturer at Princeton University, where, in addition to teaching, mentoring and running a research laboratory, she served as an academic advisor, an Associate Member at the Cancer Institute of New Jersey, and the Director of Diversity Programs & Graduate Recruiting. Honors include Princeton's President's Award for Distinguished Teaching, the Graduate Mentoring Award and the American Society for Microbiology Hinton Award for advancing the research careers of under-represented minorities.

Stephen M. Fiore, Ph.D. is Director of the Cognitive Sciences Laboratory and Professor with the University of Central Florida's Cognitive Sciences Program in the Department of Philosophy and Institute for Simulation & Training. He maintains a multidisciplinary research interest that incorporates aspects of the cognitive, social, organizational, and computational sciences in the investigation of learning and performance in individuals and teams. Dr. Fiore is currently president-elect of the International Network for the Science of Team Science (INSciTS), and past-president of the Interdisciplinary Network for Group Research (INGRoup). His primary area of research is the interdisciplinary study of complex collaborative cognition and the understanding of how humans interact socially and with technology.

Janet Vertesi, Ph.D. is Associate Professor of Sociology at Princeton University with a specialty in the sociology of science, technology, and organizations. She has studied NASA's robotic spacecraft teams for the past fifteen years as an embedded ethnographer among the planetary science community, earning her the moniker of "Margaret Mead among the Starfleet" in the Times Literary Supplement. Vertesi's research on teaming in science is published in two solo-authored academic books, 'Seeing Like a Rover: How Robots, Teams and Images Craft Knowledge of Mars' and 'Shaping Science: Organizations, Decisions, and Culture on NaSA's Teams', both with University of Chicago Press. Her articles and conference papers about scientific collaboration are published across the fields of science studies, sociology, human-computer interaction, and computer-supported cooperative work. More information at http://janet.vertesi.com Stephanie Pfriman, Ph.D. is Foundation Professor, School of Sustainability and Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability, Arizona State University. Professor Pfirman focuses on understanding and responding to the changing Arctic, developing innovative approaches to formal and informal education, and exploring the intersection between diversity and interdisciplinarity. As a former co-PI of a National Science Foundation Advancing Women in the Sciences (ADVANCE) grant, past President of the Council of Environmental Deans and Directors, Chair of the Columbia Earth Institute's Faculty Development Committee and member of the American Association for the Advancement of Science Committee on Opportunities in Science, Pfirman has helped to understand and foster the career trajectories of women and interdisciplinary scholars. She is currently co-PI of an NSF RAPID grant: Winners and Losers when Science Moves Home: Differential Effects of COVID-19 based on Discipline, Caregiving, and Career Stage. Pfirman is a fellow of the American Association for the Advancement of Science and a National Associate of the National Research Council. She served as the first Chair of the National Science Foundation's Environmental Research and Education Advisory Committee, chaired NSF's Advisory Committee to the Office of Polar Programs, and both chaired and participated in several study committees for the National Academy of Sciences, including co-chairing the 2014 study committee on Emerging Research Questions in the Arctic.

James L. Burch, Ph.D. is Vice-President of the Space Science and Engineering Division at Southwest Research Institute in San Antonio, TX. He received his B.S. in Physics in 1964 from St. Mary's University of Texas and his PhD in Space Science from Rice University in 1968. Dr. Burch is a fellow of the American Geophysical Union and was awarded the AGU Fleming Medal in 2010. He has also served as president of the Space Physics and Aeronomy Section of the AGU (1996-98) and is a member of the International Academy of Astronautics. Dr. Burch has served as Editor and Editor-in-Chief of Geophysical Research Letters (1988-1993) and since 2007 is Editor of Space Science Reviews for magnetospheres and interplanetary matter. He served as chair of the AGU Committee on Public Affairs (2001-2003), the AGU Meetings Committee, and the National Research Council Committee on Solar and Space Physics (2000-2004). As a member of the Governing Board of the American Institute of Physics (2001-2004), he was chair of the Audit Committee. He currently serves on the AGU Development Board and the AIP Investment Advisory Committee. Dr. Burch was the AGU Van Allen Lecturer in 2001 and in 2003 was designated a lifetime National Associate of the National Academies. Dr. Burch was Principal Investigator for the Dynamics Explorer 1 High-Altitude Plasma Instrument, the ATLAS-1 Space Experiments with Particle Accelerators (SEPAC), the Ion and Electron Sensor for the European Space Agency ROSETTA mission and the NASA IMAGE MIDEX mission, launched in March 2000. He is currently PI of the Instrument Suite Science Team for the NASA Magnetospheric Multiscale mission, launched in 2015, and the MASPEX instrument for the Europa Clipper mission.

Makenzie Lystrup, Ph.D. is vice president and general manager of the Civil Space strategic business unit. She is responsible for Ball's portfolio of business in astrophysics, planetary science, heliophysics and space weather, Earth science and environmental monitoring, operational weather, and land imaging as well as advanced technology development for those markets. She previously served as senior director, Civil Space Advanced Systems and Business Development, where she

managed new business activities for NASA, NOAA and other civilian U.S. government agencies as well as for academia and nongovernmental organizations. Dr. Lystrup holds a B.S. in Physics from Portland State University and a Ph.D. in Astrophysics from University College London. As a planetary scientist and astronomer, Dr. Lystrup' s scientific work has been in using ground- and space-based astronomical observatories to understand the interactions and dynamics of planetary atmospheres and magnetospheres – the relationships between planets and their surrounding space environments.. She currently serves on boards and committees for Association of Universities for Research in Astronomy (AURA), International Society for Optics and Photonics (SPIE), American Astronomical Society (AAS), CO-LABS, and the Boulder Chamber of Commerce. She has previously served on committees for the Associated for Women in Science, the Commercial Spaceflight Federation, and the National Academies of Science, Engineering, and Medicine. In 2019, Dr. Lystrup was elected to the rank of Fellow of the American Association for the Advancement of Science for her distinguished record in the fields of planetary science and infrared astronomy, science policy and advocacy, and aerospace leadership.

Lisa B. Callahan is Vice President and General Manager of the Commercial Civil Space line of business for Lockheed Martin Space. In this role, she is responsible for all aspects of execution, strategy and growth in the Commercial and Civil markets of human and robotic deep space exploration, communications, and weather and remote sensing. Lisa leads her team at the forefront of cutting-edge technology – helping humanity take the step to becoming an interplanetary species. Her team of about 2,000 amazing women and men builds and operates the spacecraft that provide bandwidth to connect the world, early warning weather data to protect life and property, and allows humans and robots to explore our solar system to unlock the secrets of the universe. Throughout her 20+ year career, Lisa has held a variety of leadership roles for Lockheed Martin. She brings a strong business mind to her roles and implements a vison and sets up teams for long-term success. Her story is a testament to the exciting world of engineering, and she strives to share her experience through mentoring and speaking engagements to inspire young engineers, especially females, to dream big and pursue their dreams. Lisa graduated from Virginia Polytechnic Institute and State University with a Bachelor of Science in Electrical Engineering. Lisa also serves on the Corporate Advisory Board for the University of Southern California's School of Engineering, the Engineering Advisory Council for the University of Colorado – Boulder's College of Engineering and Applied Science, and the Board of Directors for the Space Foundation.

Mike Ryschkewitsch, Ph.D., became the Sector Head for the Space Exploration Sector of the Johns Hopkins University Applied Physics Laboratory on January 2, 2014. As a member of the Laboratory's Executive Council, he also oversees APL's portfolio of space programs for both NASA and national security sponsors spanning many aspects of solar system research, from space physics to space situational awareness and planetary probes. He leads an experienced science, engineering and program management cadre to pursue groundbreaking space opportunities, enhance innovation and affordability, and meet high standards in product quality and timeliness. As the nation's largest University Affiliated Research Center, APL performs research and development on behalf of the Department of Defense, the intelligence community, the National Aeronautics and Space Administration, and other federal agencies. Before joining the Laboratory,

Dr. Ryschkewitsch served for over thirty years at NASA with the last seven years as the NASA Chief Engineer overseeing the technical readiness of all NASA programs and assuring that the agency's development effort and missions operations are planned and conducted on a sound engineering basis with proper controls and management of technical risks. His previous responsibilities included deputy center director for NASA's Goddard Space Flight Center and the lead for Goddard's Applied Engineering and Technology directorate. Dr. Ryschkewitsch began his career at NASA in 1982 as a cryogenics engineer working on the Cosmic Background Explorer and subsequently led and contributed to many other science missions, including the Wilkinson Microwave Anisotropy Probe, the Swift Gamma-Ray Burst Mission, the Terra satellite, and the Corrective Optics Space Telescope Axial Replacement for the first Hubble Space Telescope servicing mission. Dr. Ryschkewitsch earned his Bachelor of Science degree in physics from the University of Florida and a Ph.D. in physics from Duke University.

Lindy Elkins-Tanton Ph.D., Lindy Elkins-Tanton is the Principal Investigator of the NASA Psyche mission, Arizona State University Vice President and Co-chair of the Interplanetary Initiative at ASU, and co-founder of Beagle Learning, a tech company training and measuring collaborative problem-solving and critical thinking. Her research and efforts are focused on a positive human space exploration future, the effective leadership of teams, and education for the future of society. She has led four field expeditions in Siberia. She served on the Planetary Decadal Survey Mars panel, and the Mars 2020 Rover Science Definition Team, and now serves on the Europa Clipper Standing Review Board. In 2010 she was awarded the Explorers Club Lowell Thomas prize. Asteroid (8252) Elkins-Tanton is named for her. In 2013 she was named the Astor Fellow at Oxford University. She is a fellow of the American Geophysical Union, and of the American Mineralogical Society, and in 2018 she was elected to the American Academy of Arts & Sciences. In January 2020, she was awarded The Arthur L. Day Prize and Lectureship, by the National Academy of Sciences, for her lasting contributions to the study of the physics of Earth, and for illuminating the early evolution of rocky planets and planetesimals. Elkins-Tanton received her B.S., M.S., and Ph.D. from MIT. Together we are working toward a positive space exploration future, and toward creating a generation of problem-solvers.

Tuija Pulkkinen received her Ph.D. degree in theoretical physics from the University of Helsinki in Finland. She is currently the Professor and Chair of the Department of Climate and Space Sciences and Engineering at the University of Michigan. She has worked previously as Dean and Vice President for Research and Innovation at Aalto University, and as Research Professor at the Finnish Meteorological Institute. She has held numerous positions in international and national scientific organizations including presidency of the European Geosciences Union and Co-Chair of the Committee for Solar and Space Research under the Space Studies Board. She has also served in several functions for research funding organizations and university assessments

Harlan Spence is the director of the Institute for the Study of Earth, Oceans, and Space, and also professor of physics, at the University of New Hampshire (UNH). Spence leads a research group that studies the physics of cosmic plasmas, from the Sun's corona to interplanetary space to Earth's upper atmosphere, using experimental and modeling techniques. Spence and his research team

develop and use physics-based, numerical models to understand the powerful dynamics of interacting solar and planetary plasmas ("space weather") and the resultant deleterious effects on space technologies and astronauts. Spence was co-investigator on two energetic particle instruments on the NASA Polar satellite and is co- investigator on a suite of energetic particle instruments on the recently launched NASA Magnetospheric Multiscale mission. He is deputy principal investigator on a cosmic ray sensor on NASA's Lunar Reconnaissance Orbiter mission and is principal investigator of a comprehensive charged particle instrument suite on NASA's Van Allen Probes mission. Finally, Spence is principal investigator of the NSF FIREBIRD-II CubeSat mission exploring the physics of relativistic electrons which reach Earth's upper atmosphere from the radiation belts. Spence worked at The Aerospace Corporation. Spence joined the faculty at Boston University as an assistant professor of astronomy and moved up through the ranks to full professor and department chair before moving to UNH. He is a recipient of an NSF Young Investigator Award, received the Wisneski Award for Excellence in Teaching at Boston University, received two Editor's Citations for Excellence in Refereeing from AGU publications, and has earned numerous NASA Group Achievement Awards. Spence earned his Ph.D. in geophysics and space physics from the University of California, Los Angeles.