

Speaker and Moderator Biographical Sketches

KEITH MASBACK is the Owner of Plum Run, LLC, which provides advisory and consulting services to startups, small companies, and government organizations working in geospatial intelligence and related fields. Previously, he spent more than 10 years as president and chief executive officer of the U.S. Geospatial Intelligence Foundation (USGIF), establishing a professional certification program and substantially increasing the number of its other accredited academic programs. Before joining USGIF, he more than 20 years as an officer in the U.S. Army and as a government civilian employee, culminating in the Senior Executive Service at the National Geospatial-Intelligence Agency. Many of his positions involved planning, acquiring, and tasking airborne and spaceborne remote sensing assets for military and intelligence purposes. Mr. Masback has served on numerous boards and advisory committees, and is the immediate past chair of the National Geospatial Advisory Committee and a current member of the Board of Advisors of the Global Special Operations Forces Foundation. He is a Councilor and Fellow of the American Geographical Society, and was recognized as the Geospatial Ambassador of the Year at the 2019 Geospatial World Forum. Mr. Masback holds a B.A. in political science from Gettysburg College and completed the Post-Graduate Intelligence Program at the National Intelligence University.

Under **BARBARA RYAN's** leadership, millions of satellite images and other Earth observation data have been made available to the general public at no charge, allowing scientists, planners and policy makers to make better-informed decisions on problems that transcend political boundaries. Her work addresses critical issues in agriculture, biodiversity, climate change, disaster planning, energy, health and water. Barbara Ryan's career began in 1974 when she joined the United States Geological Survey (USGS), the nation's largest natural resource science and civilian mapping agency. She advanced steadily in the USGS, earning master's degrees in geography from the University of Denver and in civil engineering from Stanford University. As associate director for geography at the USGS, she was responsible for the agency's remote sensing, geography and civilian mapping programmes, including the Landsat satellites. From 2008 to 2012, she was Director of the World Meteorological Organization (WMO) Space Programme, and from 2012 to 2018, Ryan was the Secretariat Director of the intergovernmental Group on Earth Observations (GEO) in Geneva, Switzerland. In January of 2021, Barbara became the second Executive Director of the World Geospatial Industry Council (WGIC), a not-for-profit trade association of private-sector companies working in the geospatial and Earth observation ecosystem. Ryan has served as chair of the international Committee on Earth Observation Satellites (CEOS). She has been awarded an honorary doctorate of science degree from her alma mater, SUNY Cortland. She has been named an Honorary Fellow of the American Geographical Society, in 2017 she was one of 10 global Leaders to be named to the Geospatial World Forum's Hall of Fame, and in 2019 she was awarded the Department of Interior and NASA's Pecora Award. She serves on several Boards and Advisory Committees including for two start-ups -- Azimuth1 and Data for Development Insights (D4DInsights), the Ecological Sequestration Trust, the International Centre for Earth Simulation (ICES), the International Symposium for Remote Sensing of Environment (ISRSE), and the Jane Goodall Institute.

AARON ADDISON is the incoming Executive Director and current Deputy Director for the World Geospatial Industry Council (WGIC) Secretariat where his focus is geospatial industry outreach working with companies and organizations around the globe on challenges related to the policy, implementation and communication of geospatial data. His 30 years of international experience includes extensive work in the public and private sectors as well as NGOs and higher education institutions. Addison currently

provides program management leadership for WGIC activities in education, workforce development, digital twins and recently initiated GeoAction Africa project examining the contributions that geospatial tools and services may provide to countries in Africa. In addition to his operational and project management roles, he also staffs the WGIC Industry\Academia committee working to bring education and research together with geospatial industry. Prior to joining WGIC, Aaron served as the Director of Data Services for Washington University in St. Louis. In 2006 he joined WU to build a university-wide geospatial program for teaching, research and administration. His teams delivered analytic and technical services to faculty, students and staff as well as leading the creation of a GIS Certificate curriculum and teaching courses at multiple universities.

SANDER WILLIAMS serves as the Director, Talent Acquisition for NGA. In this role, he directs recruitment marketing and outreach, recruitment services, student program, pre-employment processes and onboarding services and oversees the candidate selection process. Additionally, he serves as the principle advisor for talent acquisition and recruiting to the Director, HD and represents NGA at various human capital fora with the Intelligence Community. Mr. Williams began his career as an Infantry Officer in 1984 in the U.S Army. He served in numerous leadership positions and was later assigned to the Military Intelligence Corps. Mr. Williams retired from the United States Army as a Lieutenant Colonel after 28 years of service. Mr. Williams earned a Bachelor of Art's Degree in Sociology from the University of Tennessee, and a Master's Degree in Public Administration in Administration Organization and Management from Golden Gate University.

DAVID DIBIASE [pronounced "Dee-Bee-AH-See] is an educator and lifelong student of what the U.S. Department of Labor calls the "Geospatial Technology Industry." He's taught for Penn State University since 1989 and founded its "World Campus" online certificate and master's degree programs in GIS. He served as editor-in-chief of the first editions of the *GIS&T Body of Knowledge* and the U.S. Department of Labor's Geospatial Technology Competency Model. From 2011-2019 David served as leader of Esri's Education Industry and Business Development teams. His interests include the future of GIS work, professional ethics, and learning design. In 2018 David was inducted as a Fellow of the American Association of Geographers. After work, he farms the Lonely Bear Vineyard in Southern California.

ELISABETH ROOT is a Senior Research Manager at the Institute for Disease Modeling at the Bill & Melinda Gates Foundation, where she leads the Women's, Reproductive, Infant and Child Health team. Prior to joining the Foundation, Dr. Root was a professor in the Geography Department and the Division of Epidemiology at The Ohio State University and affiliated with the Translational Data Analytics Program and the Institute for Population Research. Her current research focuses on using complex statistical modeling to examine: 1) social determinants of health and the ways in which population and environmental factors jointly impact women's and children's health and well-being, 2) community-level structural and policy factors that impact maternal and child health and family planning, and 3) complex evaluation of overlapping health interventions using dynamical models. She has extensive field-based experience in Bangladesh, Honduras, Philippines, and Indonesia, where she led major survey-based global health projects. She received her B.A. in anthropology and public policy analysis from Pomona College and her M.A. and Ph.D. in geography from the University of Maryland and the University of North Carolina-Chapel Hill, respectively.

DAVID BROSTUEN serves as the Director of the US Geological Survey's National Geospatial Directorate with executive responsibility over the two largest Science Centers in USGS; The Earth Resources Observation and Science Center (EROS) which includes oversight over both the USGS Landsat

satellite operations and science activities and the National Geospatial Technical Operations Center which is the USGS's operational center for their modern topographic mapping mission. David has a passion for evolving geospatial science and technology and brings a wealth of both industry and federal government experience having spent 22-years in the private geospatial industry prior to transitioning to the USGS in 2009. David's office is located in Denver Colorado.

ANTHONY SPICCI has been active in the geospatial community for over 30 years. He began his professional career with the Missouri Department of Conservation (MDC) in 1992 building a team of research professionals to conduct and support science within the Department. He retired from MDC and is currently the Executive Director of the GIS Certification Institute (GISCI). Tony is an active member of the Missouri GIS Advisory Committee, National States Geographic Information Council, MidAmerica GIS Consortium, and a past member of the National Geospatial Advisory Committee and Missouri Geographic Names Board. Tony helped lead the effort to create the Coalition of Geospatial Organizations (COGO) where he serves today. In addition to working for the GISCI, Tony is a member of Missouri Task Force 1, a FEMA Urban Search and Rescue Team and a volunteer with the Boone County Fire Protection District.

REGINALD ARCHER, PhD, GISP, is an associate professor of Applied GIS in the Department of Agricultural and Environmental Sciences at Tennessee State University (TSU). Dr. Archer directs the Geospatial Graduate certificate program and the Geospatial Research and Analysis Lab at TSU. He applies GIS and the "science of where" to explore issues linked to environmental change related to sustainability, public health, hazards, vulnerability, disaster recovery as well as environmental and climate justice. Dr. Archer's professional experience in the geospatial technology industry has been extensive, encompassing his role as a GIS consultant for various organizations and agencies, including the HBCU Environmental Justice technical team (HEJTT). As a certified Geographic Information Systems Professional (GISP), Dr. Archer has garnered recognition for his contributions to the field. His credentials recently earned him an appointment to the EPA Science Advisory Board for their environmental justice screening tool - EJ Screen. He conducts research and primarily teaches in the specialty area of Geographic Information Systems/Science (GIS) & Remote Sensing. His research and expertise in GIS and various mapping and spatial analysis techniques related to advancements in agriculture and environmental sciences, ecology, and public health. Dr. Archer's professional experience in the geospatial technology industry has been extensive, encompassing his role as a GIS consultant for various organizations and agencies, including the HBCU Environmental Justice technical team (HEJTT). As a certified Geographic Information Systems Professional (GISP), Dr. Archer has garnered recognition for his contributions to the field and serves on the EPA Science Advisory Board for their environmental justice screening tool - EJ Screen. Dr. Archer earned his Ph.D. in Geography from the University of California, Santa Barbara. He earned his M.S. in Civil Engineering and his B.S. in Surveying and Mapping from the University of Florida.

ANGELA LEE is the Director of Education Solutions at Esri. She leads outreach to educators, students, and administrators, and promotes a geographic approach to learning and problem solving. She also manages Esri's product offerings for educational institutions. As a liaison between Esri and educational institutions at all levels, Angela helps these institutions enhance the educational experience, advance scientific research, provide better service, and operate more efficiently using geospatial data and analysis. Before joining ESRI, she was a GIS Consultant at Technical Associates in Geographic Analysis, where her responsibilities included database development and map production for a variety of clients. Angela holds a Master of Arts in Geography with an emphasis on GIS from the University of Minnesota.

SETH SPIELMAN is an award-winning author, geographer, data scientist, and former professor whose work focuses on measurement of complex social and spatial phenomena. He is currently a director and principal data scientist in Microsoft's Core Search and AI group. Before joining Microsoft, he was a senior scientist and manager at Apple, where he worked on the reinvention of Apple Maps. He has held academic positions at Columbia, Brown, and the University of Colorado, where he was a tenured professor of Geography and Information Science and the university's inaugural Chief Data Officer.

BUDHENDRA "BUDHU" BHADURI is a Corporate Research Fellow and the director of the Geospatial Science and Human Security Division at Oak Ridge National Laboratory (ORNL). In that capacity he is responsible for a research portfolio focusing on novel implementation of geospatial science and technology across energy, environment, and national security missions across the U.S. government agencies, including the Department of Energy, the Department of Defense, and the Department of Homeland Security. Dr. Bhaduri is a fellow of the American Association for the Advancement of Science (AAAS) and the American Association of Geographers (AAG). Dr. Bhaduri is actively involved with academic collaborations and student engagement for research in geospatial science. He is a recipient of the 2017 Carolyn Merry Outstanding Mentor Award from the University Consortium of Geographic Information Science (UCGIS) and the Anderson Medal from the applied geography specialty group of the AAG in 2018. He is a founding member of the U.S. Department of Energy's Geospatial Sciences Steering Committee and a recipient of the department's Outstanding Mentor Award for his dedicated service for developing future workforce for the nation. Dr. Bhaduri received his Ph.D. in Earth & Atmospheric Sciences from Purdue University. He has a M.S. from Kent State University, and a M.Sc. and a B.Sc. in Geology from University of Calcutta, India.

NATHAN JONES has more than 15 years of experience at the U.S. Census Bureau where he has managed stakeholder engagement with Tribal, Federal, State, and Local government agencies, and national programs responsible for acquiring geospatial data used to update the Census Bureau's MAF/TIGER System, which provides the geospatial foundation for data collection, processing, tabulation, and dissemination across many programs and censuses at the Census Bureau. Presently, Mr. Jones is the Assistant Division Chief of Business Administration for the Geography Division and oversees the Geography Division's recruitment efforts, contracts, financial planning, and compliance with the Geospatial Data Act of 2018 among other things.

VÉRONIQUE BOUCHET is Director General of the Canadian Centre for Meteorological and Environmental Prediction, at the Meteorological Service of Canada (MSC). Over the course of her career, Dr. Bouchet has led Air Quality Research, Meteorological Research, as well as National Operations and Development activities. With a PhD in atmospheric modelling applied to air quality, Dr. Bouchet was responsible, early in her career, for the development of numerical prediction application programs, including air quality forecasting and regulatory decision support programs at Environment and Climate Change Canada. She currently oversees the implementation of scientific innovations at the Meteorological Service of Canada, the 24/7 production of numerical prediction systems and emergency response to atmospheric and other incidents. Dr Bouchet contributes to numeral international committees, most recently as a member of the World Meteorological Organization Research Board and Infrastructure Commission.

KENTON ROSS is the Program Manager of the NASA DEVELOP Program. He served as the Chief Scientist for the NASA DEVELOP Program from 2012 to 2024. Prior to that Kent served as a DEVELOP project advisor starting in 2004. With DEVELOP, Kent has advised and mentored over 2,000 young and

career transitioning professionals in the application of Earth observations for environmental decision making. In the process of advising and supporting DEVELOP participants, Kent contributed his expertise to completing over 400 applied Earth science capacity building feasibility projects. He has an M.S. in Civil Engineering and a Ph.D. in Agronomy from Purdue University. He has been active in geospatial technologies and remote sensing for 30 years and has supported Earth science applications with NASA and NOAA for 20 years.

HAMED ALEMOHAMMAD is an Associate Professor in the Graduate School of Geography at Clark University and the Director of the new Center for Geospatial Analytics. His research interest lies at the intersection of GISciences and geography to use observations and analytical methods, in particular machine learning (ML) techniques, to better understand the changing Earth system.