**Plenary Address**

Beronda Montgomery is a writer, researcher, and scholar who pursues a common theme of understanding how individuals perceive, respond to, and are impacted by the environments in which they exist. Dr. Montgomery’s research seeks to understand how organisms perceive and respond to their environment, especially focused on the complex way in which photosynthetic organisms respond to light. Her work uses cyanobacteria, Arabidopsis and other plants, to elucidate the complex molecular mechanisms that underlie plant utilization and responses to light, including the role of signaling mechanisms in stress responses. Her work on plant pigments such as biliprotein phytochrome seeks to uncover the molecular mechanisms that operate in different organs of the plant, revealing the processes by which the light environment where plants grow shapes their growth processes and stress-responses. Dr. Montgomery has an equal depth of research on cultural aspects of science, with a focus on revealing the factors that promote recruitment and retention of a diverse STEM workforce in Higher Education. As part of her commitment to research mentorship, she served as a Research and Scholarship Node Leader in the Michigan State University’s Academic Advancement Network for four years, which seeks to support academic advancement for academics at any career stage. She continues contributing to these efforts as the current interim Assistant Vice President for Research and Innovation at MSU.

**Annals of Botany Lecture**

Mario Vallejo-Marin is a dynamic speaker, and a rising star in the field of Plant Reproductive Biology and floral evolution. He is one of the world’s authorities on buzz pollination, and his talks on that subject are amazing and visually stunning, which is perfect for the Botany 2021 virtual format.

**Kaplan Memorial Lecture**

I grew up in Buenos Aires, Argentina, where I completed my education. I earned my undergraduate degree in Biology and my master’s in Ecology and Systematics; my Ph.D. is on the evolution of the iconic Southern Hemisphere genus Nothofagus. I moved to the US for a postdoctoral position at Cornell University and never left. At Cornell, I teach several courses, including Plant Anatomy. Currently, I am the Director of Undergraduate Studies for Biodiversity and Systematics and Plant Biology and the curator of the Natalie Uhl Cornell University Plant Anatomy Collection (CUPAC). My research area is on the evolution of Southern Hemisphere modern and extinct floras focusing on Patagonia and the Antarctic Peninsula. In 2018, I became the first female and Latina editor-in-chief of the Review of Palaeobotany and Palynology, one of the most important paleobotany journals.

**BSA’s Emerging Leader Lecture**

Assistant Professor at in the School of Life Sciences at the University of Hawai’i. My lab studies in how plants work and why they evolved to work that way using comparative, theoretical, computational, and experimental approaches.

**MSA’s Karling Lecture**

Dr. Anita Sil received her undergraduate degree in Biochemistry from Harvard College where she studied penicillin-binding proteins in the laboratory of Jack Strominger. She then obtained PhD and MD degrees from the University of California San Francisco (UCSF) where she studied asymmetric cell fate in the budding yeast *Saccharomyces cerevisiae* with Ira Herskowitz, identifying a regulator of gene expression that localizes to the daughter cell at cell division. Dr. Sil then started her own laboratory at UCSF as a Sandler Fellow where she began her studies of thermally dimorphic fungal pathogens. She joined the UCSF faculty in the Department of Microbiology & Immunology in 2003 where she is now a full professor. She has been awarded several prestigious grants including a Burroughs Wellcome New Investigator Award, an Ellison New Scholar Award, and an Early Career Scientist Award from the Howard Hughes Medical Institute. She is the co-director of the UCSF Integrative Microbiology program, the co-director of the Biomedical Sciences graduate program, and the co-chair of the UCSF COVID-19 Research Coordination Task Force.

**ASPT Incoming President Address**

Carolyn Ferguson is Professor and Curator of the Herbarium in the Division of Biology at Kansas State University, where she additionally serves as Associate Director of Biology. She earned her undergraduate degree at Carleton College and her Ph.D. in Botany from the University of Texas at Austin (1998). Her research focuses on systematics of the genus *Phlox* (Polemoniaceae), including taxonomy, phylogeny, and investigation of polyploidy and its effects on aspects of diversity.
Belonging In Botany Lecture: Perspectives on DEI

David J. Asai,
Senior Director for Science Education, Howard Hughes Medical Institute

Address of the BSA President-Elect

Michael Donoghue earned his undergraduate degree in Botany from Michigan State University (1976) and his Ph.D. in Biology from Harvard University (1982). He served on the faculty of San Diego State University (1982-85), the University of Arizona (1985-92), and Harvard University (1992-00), where he was the Director of the Harvard University Herbaria from 1995-1999. In 2000 he joined Yale University where he is now the Sterling Professor of Ecology and Evolutionary Biology. He served as the Director of the Yale Peabody Museum of Natural History, where he is currently the Curator of Botany. He has also served as the Vice President in charge of Yale’s West Campus, the Director of the Marsh Botanical Garden, and the Director of the Yale Institute for Biospheric Studies. He is a Fellow of the American Association for the Advancement of Science (1997), a Member of the National Academy of Sciences (2005), and a Fellow of the American Academy of Arts and Sciences (2008). His research concerns the evolutionary history of plants, and connections between phylogeny, biogeography, and ecology. He has published over 290 papers and has mentored over 50 postdoctoral associates and graduate students.

MSA Presidential Address

Marc Anthony Cubeta is a Professor in the Department of Entomology and Plant Pathology, Director of the Larry F. Grand Mycological Herbarium and Associate Director of the Center for Integrated Fungal Research at North Carolina State University (NCSU). He received his PhD from NCSU in 1991 and conducted research in the laboratory of Rytas Vilgalys at Duke University during his PhD program and later as a post-doctoral scientist from 1992-94 where he investigated the reproductive biology and systematics of the soil and plant associated fungi Ceratobasidium and Thanatephorus. His research focuses primarily on understanding the ecology, genome organization and population biology of beneficial and plant pathogenic fungi in the Rhizoctonia species complex. Additional research interests include examining the population genetics and genomics of Calonectria pseudonaviculata and Monilinia vaccini-corymbosi and understanding the linkage between fungal diseases of animals and plants. During his career, Marc has served as a major advisor and mentor for 20 graduate students, 39 undergraduate students, 8 post-doctoral scientists, and was a member of 75 graduate student advisory committees. He teaches Introduction to Mycology and Kingdom of Fungi courses at NCSU, was elected to the North Carolina Academy of Outstanding Teachers in 2016 and received the American Phytopathological Society (APS) Outstanding Teaching Award in 2020. He has enthusiastically mentored more than 100 high and middle school science teachers and students via STEM-based outreach activities with a commitment to increasing diversity and providing educational opportunities for underrepresented and low socioeconomic populations. Marc has provided administrative leadership on advisory and editorial boards, peer-review grant panels and journals, and Departmental, College, and University committees. He has been involved in organizing the Mid-Atlantic States Mycology Conferences since 2005, served as chair of the APS Mycology Committee (2001), and a member of the US National Committee (mycology section) of the International Union of Microbiological Sciences (2000-04), and White House Office of Science and Technology Policy Microbiome Focus Group (2015-16). His service to MSA includes: President (2020-21), President-Elect (2019-20), Vice-President (2018-19), Executive Council (2011-13; 2018-21); Education Committee (2018-20, chair 2019); Treasurer and Endowment/Finance Committees ex-officio (2011-13); Program Committee (2005-09, chair 2008); Ecology/Pathology Councilor (2006-08); and MSA Asheville local arrangements committee (2004). He is an MSA Fellow (2014) and a Fulbright Scholar (Swedish University of Agricultural Sciences-Uppsala, 2012).