

On Leading a Lab: Strengthening Scientific Leadership in Responsible Research, A Workshop

Committee

Michele Masucci

Chair

Dr. Michele Masucci is the Vice Chancellor for Research and Economic Development at the University System of Maryland. She also holds the position of Professor of Geography and Environmental Systems at the University of Maryland Baltimore County and an appointment as Research Faculty at the University of Maryland College Park. She previously served as the Vice President for Research at Temple University, Director of the Information Technology and Society Research Group and Professor and Chair of the Department of Geography and Urban Studies. In her current position, she is responsible for advancing research and economic development strategy, workforce development, technology commercialization, and innovation across the institutions of the University System of Maryland and the system's Board of Regents. At Temple University, she led research for 10 years, overseeing its rise as the 4th fastest growing research enterprise in the U.S. based on research expenditures. She also leads the Federal Demonstration Partnership as the Faculty Co-Chair and President of the Federal Demonstration Partnership Foundation.

Dr. Masucci's research examines how barriers to accessing information resources using geographic information technologies are interrelated with community development and environmental quality problems, including accessing health, education and social services. She led the Building Information Technology Skills (BITS) program for the past 20 years funded by the National Science Foundation, Knight Foundation, Economic Development Agency, Philadelphia Youth Network, and many other sponsors since its inception. Her work on identifying criteria for assessing appropriate use of information technology in marginalized community settings is the focus of numerous peer reviewed publications and books. She has also worked to develop university-community partnerships with organizations that address human rights issues, and with a number of national and international community and environmental planning organizations.

Timothy Akers

Vice Chair

Dr. Timothy A. Akers currently serves as the Assistant Vice President for Research Innovation and Advocacy and Professor of Public Health at Morgan State University (MSU). With a diverse professional background spanning academia, government, military, and private sector, Dr. Akers has held positions such as Senior Behavioral Scientist at the U.S. Centers for Disease Control and Prevention (CDC) and Senior Research Scientist at Michigan State University's College of Human Medicine, David Walker Research Institute.

Dr. Akers' research expertise spans the social, behavioral, environmental, life, computational, and physical sciences, to include engineering. His more noted research areas of expertise are in the areas of quantum literacy, quantum information science, epidemiological criminology, HIV/AIDS prevention, health informatics, and health disparities. He is the founder and CEO of the National Quantum Literacy Network (NQLN) and has served on various advisory boards and committees, including the National Quantum Initiative Advisory Committee (NQIAC), the National Advisory Board to Dia de la Mujer Latina, and the Intercultural Center for Health, Research, and Wellness.

Some of Dr. Akers' major honors include the 2022 National Trailblazer in Quantum Literacy for Workforce award by the National HUBZone Council and the 2014 National Minority Research Mentorship Award and Honor. He holds a patent for the P-VEST (Pulmonary Vest for Electro-Sonic Treatment) for Cystic Fibrosis and a provisional utility patent for RAPID PODS (Rapid Assembled PODS for Immediate Deployment – Prevention On-Demand Screening) for rapid clinical assessments.

Robin Broughton

Member

Robin S. Broughton is Director of Cultural Innovations within the Center for the Advancement of Science Leadership & Culture at the Howard Hughes Medical Institute (HHMI). In this capacity, she leads development of scientific professional development programs that center principled leadership and effective mentorship. In the decade before joining HHMI, Robin worked at the National Institutes of Health (NIH) where she managed grants and contracts to help support various types of research and research education efforts. At the National Institute of Allergy and Infectious Diseases, she managed a portfolio of product development and preclinical service contracts aimed at supporting development of anti-infective agents targeting emerging infectious diseases and biodefense threats. In addition, she served as a Program Officer in the Division of Training, Workforce Development and Diversity at the National Institute of General Medical Sciences and was an AAAS Science & Technology Policy Fellow in the Office of Cancer Genomics at the National Cancer Institute. Prior to NIH, she was faculty in the Department of Microbiology and Immunology at Meharry Medical College. Robin has a B.S. in Microbiology from North Carolina State University and a Ph.D. in Microbiology and Immunology from the Wake Forest University School of Medicine.

Stephen M. Fiore

Member

Stephen M. Fiore is Director, Cognitive Sciences Laboratory, and Pegasus Professor with the University of Central Florida's Cognitive Sciences Program in the Department of Philosophy and Institute for Simulation and Training. Dr. Fiore is past-president of, and was a founding board member for, the International Network for Science of Team Science (INSciTS). He is also a founding board member and past president of the Interdisciplinary Network for Group Research. Dr. Fiore maintains multidisciplinary research interests that incorporate aspects of the cognitive, social, organizational, and computational sciences in the investigation of learning and performance in individuals and teams.

Umut Gurkan

Member

Umut A. Gurkan, Ph.D., is the Wilbert J. Austin Professor of Engineering with tenure at Case Western Reserve University. Dr. Gurkan's research expertise is on global equitable access to diagnostics and personalized health. Dr. Gurkan has authored over 100 peer-reviewed publications. Dr. Gurkan's inventions have led to 13+ issued US patents and four successful biotechnology companies to date with products in global markets. Dr. Gurkan's innovations won numerous awards, including USPTO Patents for Humanity recognition and USFDA Breakthrough Device Designation. His honors include National Science Foundation CAREER Award, the American Society for Engineering Education Curtis W. McGraw Research Award Finalist, Translational Research Featured New Investigator Award, the Biomedical Engineering Society Rising Star Award, MIT Technology Review Innovator under 35 Award, and the Doris Duke Innovations in Clinical Research Award. Dr. Gurkan is a Senior Member of the National Academy of Inventors (NAI), a member of the New Voices in Science, Engineering and Medicine Program by the National Academies of Sciences, Engineering, and Medicine (NASEM), and a fellow of the American Institute for Medical and Biological Engineering (AIMBE). Dr. Gurkan holds BS degrees in Chemical Engineering and Mechanical Engineering from the Middle East Technical University in Turkey and a Ph.D. in Biomedical Engineering from Purdue University. He completed his postdoctoral training at Harvard Medical School and Harvard-MIT Health Sciences and Technology.

Gregory Weiss

Member

Gregory Weiss, a tenured Professor and Vice Chair of Chemistry has 23 years of experience running a laboratory at UCI, where he teaches a course on “The Craft of Science” to new graduate and undergraduate students. Co-founder of four biotechnology and technology companies (including PhageTech and Debut Biotechnology), he was named UCI’s Entrepreneurial Leader of the Year in 2018 and a Faculty Innovation Fellow in 2019. He is an AAAS Fellow and has received an award from UCI’s School of Biological Sciences for mentoring junior faculty. His postdoctoral training took place at Genentech, which illustrates his interest in both academic and industrial research laboratories. He was selected by the US NAS as a representative to the “Annual Meeting of New Champions,” World Economic Forum meetings in Dalian and Tianjin, China, and also served on a committee examining dual-use issues for a joint US NAS / AAAS committee (“Responsible Bioscience for a Safe and Secure Society,” 2010-2011).

Susan M. Wolf

Member

Susan M. Wolf, J.D., is Regents Professor; McKnight Presidential Professor of Law, Medicine & Public Policy; Faegre Baker Daniels Professor of Law; Professor of Medicine; and Chair of the Consortium on Law and Values in Health, Environment & the Life Sciences at the University of Minnesota. She is a member of the National Academy of Medicine, fellow of the American Association for the Advancement of Science, member of the American Law Institute, and fellow of The Hastings Center. She has published extensively on legal, ethical, and policy issues in health care, biomedical research, and emerging technologies, with articles in *Science*; *New England Journal of Medicine*; *JAMA*; *Genetics in Medicine*; *Journal of Law, Medicine & Ethics*; and others. Her research has been funded by the National Institutes of Health, National Science Foundation, Robert Wood Johnson Foundation, and Greenwall Foundation, among others. She has served on numerous advisory bodies including the National Academies Committee on Science, Engineering, Medicine, and Public Policy (COSEMPUP); National Science Advisory Board for Biosecurity; Association of American Law Schools, Section on Law, Medicine & Health Care (past-Chair); American Society for Bioethics and Humanities, Board of Directors; and Minnesota COVID Ethics Collaborative (Co-Lead). In addition to serving on COSEMPUP, Prof. Wolf has served on two consensus committees for the National Academies, has reviewed proposed committee reports, and has served as a speaker for multiple workshops. Prof. Wolf earned her J.D. from Yale Law School in 1980 and A.B. (with highest honors) from Princeton University in 1975. She was a National Endowment for the Humanities Fellow and then Associate for Law at The Hastings Center (1984-92), then a Fellow in Harvard University’s Program in Ethics and the Professions (1992-93), before joining the faculty at the University of Minnesota.

Thomas S. Arrison

Staff Officer