ADVANCING DIVERSITY-EQUITY-INCLUSION & EXCELLENCE IN STEM

AAAS
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Dr. Michael Feder
Program Director and
SEA Change Institute
Director at the American
Association for the
Advancement of Science

Sponsored by the ONR Education
and Workforce Department
POC: Dr. Michael M. Simpson,
michael.m.simpson1@navy.mil

Presented by:
Dr. Michael Feder

OFFICE OF NAVAL RESEARCH

Office of Naval Research
875 N. Randolph St., Arlington, Virginia
Bobby Junker Executive Conference Center, 14th Floor
Advancing Diversity-Equity-Inclusion & Excellence in STEM

There is a strong connection between diversity-equity-inclusion (DEI) and excellence in STEM education and careers. Welcoming and fully engaging talent from all backgrounds is essential to the competitiveness and security of the United States and to solving the grand challenges facing the world. In addition, there is consistent evidence that diverse and inclusive environments for STEM results in better science and engineering. As many recent studies including the National Academies study of harassment in academia show, we have a long way to go to remove the barriers that women and marginalized groups face when pursuing a career in STEM. The American Association for the Advancement of Science (AAAS) has launched a systemic reform effort that targets the programs, policies, and procedures that lead to an unwelcoming culture of STEM education in colleges and universities – SEA Change. SEA Change is modeled on a successful U.K. initiative that is being replicated across the globe. SEA Change seeks to fix systems rather than students, to drive continuous improvement, and to make DEI normative in STEM in higher education. The lecture will describe the impact of diversity in STEM, DEI issues in STEM within higher education and a new international model of systemic change in higher education that targets DEI in STEM.

ABOUT
Dr. Michael Feder

Dr. Feder is Program Director and the SEA Change Institute Director at AAAS. As such, he manages the training, community building, and research sharing aspects of SEA Change. In addition, Dr. Feder leads the AAAS-Lemelson Invention Ambassadors program. His experience in STEM education over the past two decades has spanned STEM policy, research and practice in K-12, higher education and informal education. Dr. Feder previously worked for The White House Office of Science and Technology Policy, the National Academies of Science, Engineering, and Medicine (NASEM), Battelle and ICF International. During his career Michael has produced seminal STEM education reports. In particular, he led the development of the first Federal 5-year STEM Education Strategic Plan, which established shared priorities in STEM education among 13 federal agencies. He also directed the NASEM committee that wrote Barriers and Opportunities in 2 and 4-year Undergraduate STEM Education, which continues to shape discussions of STEM reform policy and practice. In addition, he has also conducted reviews of NOAA’s and NASA’s STEM education programs, managed a national STEM education network and served on many advisory boards. Dr. Feder received his M.A. and Ph.D. in developmental psychology from George Mason University.