



## **MAC Real Talk: MFF on Academic Career Paths in ChemE** (ticketed event - \$20; lunch served) **Tuesday, October 31, 11:00 AM - 12:30 PM** **Minneapolis Convention Center - 101F**

**Don't miss this opportunity to hear some real talk from Minority Faculty Forum members, including our fantastic panel of deans and department heads. The panel will be followed by a speed mentoring session with MFF members. Attendees, please remember that the purpose of this event is not to find a job. It is a great opportunity to speak informally with a range of under-represented faculty about their experiences and your hopes, challenges, career options, and strategic planning.**

### **Master Mentors Panel**



**Dr Gilda Barabino** - Gilda Barabino is Dean and a Professor of Biomedical Engineering at The City College of New York's Grove School of Engineering. Prior to coming to Grove, Dr. Barabino was a Professor and Associate Chair for Graduate Studies in the Department of Biomedical Engineering at Georgia Institute of Technology and Emory University. She served as the inaugural Vice Provost for Academic Diversity and is credited for establishing a legacy to strengthen diversity and inclusion at Georgia Tech. Prior to her appointments at Georgia Tech and Emory, she rose to the rank of Full Professor of chemical engineering and served as Vice Provost for Undergraduate Education at Northeastern University.

Her research interests include sickle cell disease, cellular and tissue engineering and diversity in science and engineering. She received her B.S. degree in Chemistry from Xavier University of Louisiana and her Ph.D. in Chemical Engineering from Rice University. She is a Fellow of the American Association for the Advancement of Science, the American Institute for Medical and Biological Engineering and the Biomedical Engineering Society. Dr. Barabino has an extensive record of leadership and service in the chemical and biomedical engineering communities and currently serves as the President of the Biomedical Engineering Society. She is a Sigma Xi Distinguished Lecturer for 2012-2014 and is the recipient of numerous awards including the BMES Diversity Award, the American Society for Engineering Education/Dow Outstanding Faculty Award, the American Institute of Chemical Engineers (AIChE) Minority Affairs Committee (MAC) Distinguished Service Award and the AIChE MAC Eminent Chemical Engineers Award. Dr. Barabino is a recognized innovator, researcher and consultant on faculty development and on diversity in science and engineering. She has led a number of initiatives in these areas including serving as the founder and Executive Director of the National Institute for Faculty Equity.



**Dr Paula Hammond** - Professor Paula T. Hammond is the David H. Koch Chair Professor of Engineering at the Massachusetts Institute of Technology, and the Head of the Department of Chemical Engineering. She is a member of MIT's Koch Institute for Integrative Cancer Research, the MIT Energy Initiative, and a founding member of the MIT Institute for Soldier Nanotechnology. She recently served as the Executive Officer (Associate Chair) of the Chemical Engineering Department (2008-2011). The core of her work is the use of electrostatics and other complementary interactions to generate functional materials with highly controlled architecture. Her research in nanotechnology encompasses the development of new biomaterials to enable drug delivery from surfaces with spatio-temporal control. She also investigates novel responsive polymer architectures for targeted nanoparticle drug and gene delivery, and self-assembled materials systems for electrochemical energy devices.

Professor Paula Hammond was elected into the National Academy of Engineering in 2017, the National Academy of Medicine in 2016, and the 2013 Class of the American Academy of Arts and Sciences. She is also the recipient of the 2013 AIChE Charles M. A. Stine Award, which is bestowed annually to a leading researcher in recognition of outstanding contributions to the field of materials science and engineering, and the 2014 Alpha Chi Sigma Award for Chemical Engineering Research. She was selected to receive the Department of Defense Ovarian Cancer Teal Innovator Award in 2013, which supports a single visionary individual from any field principally outside of ovarian cancer to focus his/her creativity, innovation, and leadership on ovarian cancer research. During her sabbatical in 2013, she was a visiting scientist at the Dana-Farber Cancer Institute, and a visiting professor at the Nanyang Technological University in Singapore, in the Chemical Engineering Department. Prof. Hammond continues to serve as an Associate Editor of the American Chemical Society journal, ACS Nano. As a part of the Year of Chemistry in 2011, she was one of the Top 100 materials scientists named by Thomson-Reuters, a recognition of the highest citation impact in the field over the past decade (2001-2011). She has published over 200 papers, and holds over 20 patents based on her research at MIT. She was named a Fellow of the American Physical Society, the American Institute of Biological and Medical Engineers, and the American Chemical Society Polymer Division. Professor Hammond's work on multilayer tattoos for transdermal DNA vaccines was recently featured on the PBS Nova program, "Making Stuff" with David Pogue, and she was also featured in the Chemical Heritage Foundation's Catalyst Series: Women in Chemistry.

Professor Paula Hammond received her B.S. in Chemical Engineering from Massachusetts Institute of Technology (MIT) in 1984, and her M.S. from Georgia Tech in 1988 and earned her Ph.D. in 1993 from MIT.



**Dr Levi Thompson** - Professor Thompson earned his B.ChE. from the University of Delaware, and M.S.E. degrees in Chemical Engineering and Nuclear Engineering, and a Ph.D. in Chemical Engineering from the University of Michigan. He served as Associate Dean for Undergraduate Education in the College of Engineering from 2001 to 2005, and is Director of the Hydrogen Energy Technology Laboratory and Director of the Michigan-Louis Stokes Alliance for Minority Participation. Professor Thompson is recipient of awards including a 2006 Michiganiaan of the Year Award for his research, entrepreneurship, and recruitment and mentoring of students, NSF Presidential Young Investigator Award, Engineering Society of Detroit Gold Award,

Union Carbide Innovation Recognition Award and Dow Chemical Good Teaching Award. He is also co-founder, with his wife, of T/J Technologies, a developer of nanomaterials for advanced batteries; Dr. Thompson served as founding CEO and Board Chair until the company was acquired by A123 Systems in 2006. He recently founded Inmatech to commercialize low cost, high energy density supercapacitors. Professor Thompson was Consulting Editor for the AIChE Journal, and served on the National Academy's Chemical Sciences Roundtable, External Advisory Committee for the Center of Advanced Materials for Purification of Water with Systems, and AIChE Chemical Engineering Technology Operating Council. He presently serves on the DoE Hydrogen Technology Advisory Committee, University of Delaware Chemical Engineering Department Advisory Committee and AIChE Board of Directors, as well as the Board of Trustees for the Ann Arbor Area Community Foundation.

Research in Dr Thompson's group focuses on the design, synthesis, characterization and evaluation of nanostructured materials for energy conversion and storage applications. Of particular interest is the development structure-function relationships that enable the design of highly efficient materials. In addition, the group has developed microfabricated and thermally integrated devices for the process intensification of hydrogen production and conversion.