A special session “What’s New at NSF – Update from NSF Program Directors” will be held during the 2018 ASME Manufacturing Science and Engineering Conference / SME North American Manufacturing Research Conference (MSEC/ NAMRC), June 18-22, 2018, College Station, TX.

The panelists at this special session are:

Khershed Cooper, Director of the Nanomanufacturing program.
Bruce Kramer, Director of the LEAP HI and Cybermanufacturing Systems programs.
Brigid Mullany, Associate Director in the Advanced Manufacturing Cluster.
Steve Schmid, Director of the Manufacturing Machines and Equipment program.

The following pages have brief bios and photos of these panelists.
Khershed P Cooper

Program Director of the Nanomanufacturing Program
National Science Foundation (NSF)

Khershed P. Cooper is Program Director (PD) for the Nanomanufacturing Program in the Civil, Mechanical and Manufacturing Innovation (CMMI) Division of the Engineering Directorate at the National Science Foundation (NSF). He also oversees the Scalable Nanomanufacturing Program and the Manufacturing Nanoscience, Engineering & Technology Centers (NSECs) and serves as a disciplinary PD for the Engineering Research Center (ERC) program. He is NSF representative for National Science & Technology Council (NSTC)'s Nano Science Engineering & Technology (NSET) Sub-committee, and is a member of the National Nanotechnology Initiative (NNI)'s Signature Initiative on Sustainable Nanomanufacturing. He contributes to the development of the Manufacturing USA Institutes. Prior to joining NSF, Khershed was a Program Officer at the Office of Naval Research (ONR) and a Senior Research Metallurgist at the Naval Research Laboratory (NRL), where he studied materials processing, additive and nano manufacturing. He also has industrial research experience. He has nearly 150 publications, over 150 invited talks, and 70 contributed presentations. He has sponsored symposia and workshops in additive and nano-manufacturing. He is a Fellow of ASM International and a recipient of its prestigious Burgess Memorial Award. He received his PhD from University of Wisconsin - Madison.
Bruce Kramer
Senior Advisor of Division of Civil, Mechanical and Manufacturing Innovation
Program Director of the Cybermanufacturing Systems program, and the Leading
Engineering for America’s Prosperity, Health, and Infrastructure (LEAP HI) program
National Science Foundation (NSF)

Bruce Kramer is a graduate of MIT (S.B., S.M., Ph.D) and has served on the faculties of
Mechanical Engineering of MIT and George Washington University. He is currently a Senior
Advisor at the NSF, coordinating NSF’s participation in the National Advanced Manufacturing
Program. Dr. Kramer previously directed NSF’s Divisions of Design, Manufacture and Industrial
Innovation and Engineering Education and Centers. He co-founded Zoom Telephonics of
Boston, a NASDAQ company and producer of communications products marketed under the
Zoom and Motorola brands, holds three U.S. patents, and is a Fellow of the SME and an
International Fellow of the School of Engineering of the University of Tokyo. He has received
the F.W. Taylor Medal of CIRP, the ASME Blackall Award, and the R.F. Bunshah Medal of the
International Conference on Metallurgical Coatings (ICMC) for his contributions to
manufacturing research and the Distinguished Service Award, the highest honorary award
granted by the National Science Foundation.
Brigid Mullany

Associate Program Director Advanced Manufacturing Cluster
National Science Foundation (NSF)

Brigid Mullany received her Bachelor of Engineering Degree and Doctorate in Mechanical Engineering from University College Dublin in Ireland. Upon graduation she received a two-year EU Marie Curie postdoctoral research position at Carl Zeiss in Germany. In 2004 she joined the Department of Mechanical Engineering and Engineering Science at the University of North Carolina at Charlotte where she a Professor working in the area of surface finishing and advanced manufacturing. She received the SME Kuo K Wang Outstanding Young Manufacturing Engineer Award in 2007, and the NSF CAREER award in 2008. Currently she is an Associate Program Director in the Advanced Manufacturing Cluster at the National Science Foundation. She is active in CIRP, and is the Vice Chair of the Scientific Technical Committee on Surfaces (STC-S).
Steven R. Schmid

Program Director for Manufacturing Machines and Equipment
National Science Foundation (NSF)

Steven R. Schmid received his Bachelor of Science Degree in Mechanical Engineering at the Illinois Institute of Technology; Master of Science and Ph.D. degrees at Northwestern University; and is a Professor at the University of Notre Dame. He conducts research and teaches courses in the general fields of manufacturing, metal forming, tribology, and design. Of his textbooks, Manufacturing Engineering and Technology (with S. Kalpakjian) is the world’s most popular manufacturing textbook. Manufacturing Processes for Engineering Materials, Fundamentals of Machine Elements and Fundamentals of Fluid Film Lubrication are some of his other books. In 2012-2013, Dr. Schmid was the first Faculty Fellow at the Advanced Manufacturing National Program Office. His is currently the Program Director for Manufacturing Machines and Equipment at the National Science Foundation, which includes research grants in the additive manufacturing area. He has won numerous best paper and teaching awards, and served as President of the North American Manufacturing Research Institute from 2015-2016. He is a Fellow of ASME and SME.