Materials Processing and Manufacturing Program at the National Science Foundation

Mary Lynn Realff
Program Director, Materials Processing and Manufacturing Program

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Abstract.

The vision and mission of NSF and a description of the new re-organized Engineering Directorate will be discussed. The Materials Processing and Manufacturing Program is in the Civil, Mechanical, and Manufacturing Innovation (CMMI) division. The MPM Program advances the fundamental knowledge base that is needed for the realization of desired product attributes through the application of the systematic integration of processing - material- performance relationships. It supports analytical and experimental research that leads to the generation of such fundamental knowledge. The new emphasis on "Just in Place Manufacturing" will be presented. Additionally, new opportunities for funding unsolicited research proposals, international travel and collaborations and larger proposals responding to the Emerging Frontiers in Research and Innovation (EFRI) program will be presented.

Mary Lynn Realff is the Program Director for the Materials Processing and Manufacturing Program at the National Science Foundation. She is also an Associate Professor and the Director of Undergraduate Affairs in the School of Polymer, Textile & Fiber Engineering at Georgia Institute of Technology. Realff's research is in the area of mechanics of polymer fibers and fabrics as well as the manufacturing processing to manufacture polymers and fibrous structures. Realff was formerly the Director of the GT/NSF ADVANCE program. The goal of the ADVANCE program is to increase the representation and advancement of women in academic science and engineering careers, thereby contributing to the development of a more diverse science and engineering workforce. She is currently the President of the Georgia Association for Women in Higher Education and is on a National Board of ASME.