ADDITIVE TECHNOLOGIES

Powder Materials Processing and Fundamental Understanding

Powder materials synthesis, processing, properties, characterization, and fundamental understanding are part of the science and technology underlying numerous important areas. With new advances in experimental techniques, computation methods, and data sciences, powder materials are making fast advances that enable applications in both structural and functional applications.

This symposium will cover powder material issues related to fundamental and applied sciences in synthesis, processing, properties, and characterization from experimental, computation, and data science approaches. It will consider all aspects of powder material processing and property studies, which includes powder synthesis, forming (including additive manufacturing), sintering, and property evaluation.

Powder materials that can deliver outstanding harsh environment properties are especially of high interest. The symposium covers advances in theory, modeling, computation, data informatics while in parallel welcoming cutting-edge experimental techniques and approaches to understand and characterize powder materials in demanding conditions.

ORGANIZERS
Kathy Lu, Virginia Polytechnic Institute and State University
Eugene A. Olevsky, San Diego State University
Hang Yu, Virginia Polytechnic Institute and State University
Ruigang Wang, The University of Alabama
Isabella J. Van Rooyen, Idaho National Laboratory

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TMS Powder Materials Committee