NANOSTRUCTURED MATERIALS

ULTRAFINE-GRAINED MATERIALS X

This is the tenth international symposium that focuses on all aspects of the science and technology of ultrafine grained (UFG) and nanocrystalline materials. This symposium covers a broad scope, ranging from fundamental science to applications of bulk ultrafine-grained (grain size <1000 nm) and nanostructured (feature size <100 nm) materials. It provides a forum on the topics of fabrication and understanding of UFG and nanocrystalline materials including conventional and emerging technologies and advancements, fundamental issues in severe plastic deformation (SPD) processing and SPD-processed materials, UFG and nanocrystalline microstructure evolution, mechanical and physical properties, deformation mechanisms, superplasticity, joining and bonding, computational and analytical modeling, structural and functional applications, etc. Other emerging topics to be covered include gradient and layered nanostructures, vapor-phase processing, powder processing, rapid-solidification methods, bio-inspired nanomaterials, and radiation-tolerant nanomaterials.

In honor of the tenth iteration of this symposium, a Pioneers of Ultrafine Grained Materials Session is planned that will highlight the contributions of the superheroes of this field.

This symposium will also host a Young Scientist Session for students or post-docs within three years of receiving their Ph.D. Up to two gold medals and three silver medals will be awarded for best oral presentation at this session. Awards will also be given for best poster (one gold medal and two silver medals). A committee that includes the symposium organizers and invited speakers will decide the awards. Each medalist will receive a certificate and may receive a cash prize, depending on resources available.

ORGANIZERS
Suveen Mathaudhu, University of California Riverside, USA
Irene Beyerlein, University of California, Santa Barbara, USA
Avinash Dongare, University of Connecticut, USA
Chong Soo Lee, POSTECH, Korea South
Terry Lowe, Colorado School of Mines, USA

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