



## Winner of 2011 Acta Materialia Gold Medal and Prize

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### The 2011 Acta Materialia Gold Medal Symposium and Reception (honoring Professor Jagdish (Jay) Narayan, Winner of 2011 Gold Medal and Prize) MS&T 2011 Meeting in Columbus, Ohio, USA, October 16-20, 2011

(1) Acta Materialia Gold Medal and NC State Alumni Reception: October 17, 2011(5:30-8:30PM) at the Columbus Convention Center

Co-Chairs: Justin Schwartz (NC State Office: 919-515-0493; Email: [justin\\_schwartz@ncsu.edu](mailto:justin_schwartz@ncsu.edu)); Ted Massalski (Carnegie Mellon); Haiyan Wang (Texas A&M), Ravi Ravindra (NJIT); Lynnette Madsen (NSF); and John Prater (ARO)

Reception Invited Speakers( Partial List): Louis Martin-Vega (NC State); John Fan (Kopin Corp); Ian Robertson (NSF); Kevin Jones (Univ of Florida); Dick Siegel (RPI); Hans Weertman (Northwestern); Lyle Schwartz (NIST, Retired); Carl Koch (NC State); Rob Ritchie (Univ California, Berkeley); Jim Li (Univ of Rochester); Hans Conrad (NC State); Bhakta Rath (NRL); Steve Pennycook (ORNL); C-B Eom (Univ Wisconsin); Sudipta Seal (UCF); Ashu Tiwari (Univ Utah); Ram Katiyar (Univ Puerto Rico); Subhash Mahajan (UC Davis); Enrique Lavernia (UC Davis); Qiuming Wei (UNC Charlotte); Peter Liaw (Univ Tennessee); KL Murty (NC State); F. Mohamed (UC Irvine); Raj Singh (Clemson); Ramki Kalyanraman (Univ Tennessee); Nitin Padture (Ohio State); M. Singh (NASA); John Budai (ORNL); T. Nath (IIT); NB Singh (Northrop Grumman); N. Sudhakar (NCSU).

(2) International Symposium on Advances in Nanostructured Materials and Applications (October 17-20, 2011): Sponsored by ASM-International, TMS, ACERS and Army Research Office

Co- Chairs: Haiyan Wang (Texas A&M Office: 979-845-5082; Email: [wangh@ece.tamu.edu](mailto:wangh@ece.tamu.edu)); Ravi Ravindra (NJIT); Yuntian Zhu (NC State); Rajiv Singh (Univ of Florida); Xinghang Zhang (Texas A&M); Alan Ardell (NSF); and John Prater (ARO)

The symposium addresses critical issues relating to synthesis and processing, atomic and nanoscale characterization, structure-property correlations and modeling of nanostructured materials, in addition to defects, diffusion, ion implantation, laser-solid interactions and rapid thermal processing and pulsed laser deposition of novel materials with unique and improved properties. In the case of thin films and layered nanostructures, self-assembly processing, control of defects and interfaces, orientation control and epitaxy across the misfit scale, and

stability of nanostructures need to be addressed from a materials science perspective. Similarly, for bulk nanostructures, innovative processing routes, control of dislocations and grain boundaries, role of twinning, size dependent mechanical properties, and stability of nanostructures should be addressed. These issues are crucial for the development of test nanostructures and their scale-up in manufacturing.

This international symposium is dedicated to seminal research contributions of Professor Jagdish (Jay) Narayan (winner of 2011 Acta Materialia Gold Medal) in the field of materials science and engineering and to his leadership in materials science worldwide through professional societies and the National Science Foundation. Professor Narayan is the John C. C. Fan Family Distinguished Chair Professor in the Department of Materials Science and Engineering in the College of Engineering at North Carolina State University. He also has appointment of Distinguished Visiting Scientist at Oak Ridge National Laboratory.

The symposium has assembled 80 talks and 20 poster presentations. Among those, 50 are invited talks and a partial list of the invited speakers is shown below. The Symposium will run from Monday afternoon to Thursday Morning. The award banquet will be held on Tuesday (6:30-10:30 PM) as part of the ASM Awards Dinner and Banquet. The poster session will be held near the Conference Room as well as in the common area, therefore, bring two copies of your poster. There will be First, Second and Third Prizes for the poster. The Symposium papers (peer reviewed) will be published in Acta Materialia and in two volumes of reference books by Elsevier.

#### **Partial list of invited speakers in alphabetical order:**

##### **A. Electronic, photonic and magnetic materials:**

**K. Aifantis (Aristotle University); J. Budai (ORNL); M. Chisholm (ORNL); C-B Eom (University of Wisconsin, Madsen); A. Gupta (University of Alabama); K. Jones (University of Florida); R. Kalyanraman (UT, Knoxville); R.S. Katiyar (University of Puerto Rico, Río Piedras Campus); S. Mahajan (Arizona State University); A. Madhukar (University of Southern California); T. K. Nath, Indian Institute of Technology Kharagpur; N. Padture (Ohio State); S. Pennycook (ORNL); J. Prater (ARO); C.L. Reynolds (NCSU); J. Schwartz (North Carolina State University); S. Seal (University of Central Florida); N. Singh (Northrop Grumman Corporation); R. Singh (Clemson Univ); R N Singh (Univ. of Cincinnati); A. Tiwari (University of Utah); P. Varanasi (ARO); L. Vayssieres (National Institute for Materials Science)**

##### **B. Structural Materials:**

**E. Aifantis (Aristotle University, Greece); R. Armstrong (University of Maryland); I. Beyerlein (LANL); H. Conrad (NCSU); L. Kecskes (ARL); C. Koch (NCSU); P. Liao (University of Tennessee); JCM Li (Rochester); S. Mao (University of Pittsburgh); S. Mathaudhu (ARO); M. Meyers (UC San Diego); A. Misra (LANL); F. Mohamed (UC Irvine); K. Murty (NCSU); S. Prasad (Sandia National Lab); R. Ritchie (UC Berkeley); I. Robertson (NSF); V. Subramanya Sarma (IIT); H. Sehitoglu (University of Illinois); R. Siegel (Rensselaer Polytechnic Institute); J. Weertman (Northwestern University); Q. Wei (University of North Carolina, Charlotte); Y. Zhao (UC Davis)**