

MRS Graduate Student Award Finalists Announced

The Graduate Student Award finalists have been named for the 2002 Materials Research Society Spring Meeting. Each finalist was scheduled to give a presentation at the GSA Special Talk Session at the meeting on April 2. The finalists are: **Vadim Adamovich**, University of Southern California, (K2.2) New Charge-Carrier Blocking Materials for High Efficiency OLEDs; **Sumit Agarwal**, University of California—Santa Barbara, (A1.2) Interactions of Atomic Deuterium with Hydrogenated Amorphous Silicon Thin Films—An *In Situ* Study Using Multiple Total Reflection Fourier Transform Infrared Spectroscopy, and (A25.5) Atomic-Scale Analysis of the H-Induced Disorder-to-Order Transition in Plasma-Deposited Silicon Thin Films; **Rhett Brewer**, California Institute of Technology, (J5.4) Rapid Low-Coverage Biaxial Texture Development in MgO Films During Growth on Amorphous Substrates by Ion-Beam-Assisted Deposition; **Mark E. Byrne**, Purdue University, (N9.3) Biomimetic Materials for Selective Recognition of Biologically Significant Molecules; **Stefano Curtarolo**, Massachusetts Institute of Technology, (W4.4) Dynamics of a Non-Homogeneously Coarse-Grained System; **Melik C. Demirel**, Los Alamos National Laboratory, (W6.10) Large-Scale Statistics for Computational Verification of Grain Growth Simulations with Experiments; **Lara A. Estroff**, Yale University, (N7.10) An Organic Matrix for Inorganic Crystal Growth; **Michael E. Groenert**, Massachusetts Institute of Technology, (K6.2) Room-Temperature CW GaAs/AlGaAs Quantum-Well

Lasers on Si; **Amanda J. Haes**, Northwestern University, (O3.1) A Highly Sensitive and Selective Surface-Enhanced Nanobiosensor; **Christy L. Haynes**, Northwestern University, (S10.7) Plasmon Scattered Surface-Enhanced Raman Scattering Excitation Profiles; **Yu Huang**, Harvard University, (S3.6) Nanowire Building Blocks—Assembly and Functional Device Arrays; **Jason Lee**, University of Illinois, Urbana-Champaign, (B5.5) Molecular-Layer Deposition of Ultrathin Zirconia Films on Silicon Using Polynuclear Metal Alkoxide Precursors; **Xiaogang Liu**, Northwestern University, (E1.2) Arrays of Magnetic Nanoparticles Patterned via Dip-Pen Nanolithography; **Michael Lufaso**, Ohio State University, (D4.2) Evaluation and Prediction of the Crystal Structures of Single/Ordered/Disordered Octahedral Cation Perovskites Using the Software Program SpuDS; **Hong Meng**, University of California—Los Angeles, (S5.4) Characteristics of Nanoscale Field-Effect Transistors via Structure Modifications of Self-Assembled Molecules; **Hendrik Ohldag**, Stanford University, (E6.2) Understanding Magnetic Coupling at Antiferromagnetic/Ferromagnetic Interfaces—A Spectromicroscopy Study; **So-Jung Park**, Northwestern University, (O3.2) Massively Parallel Electrical Detection of DNA Using Oligonucleotide-Modified Au Nanoparticle Materials; **Leila Rezaee**, University of Tehran, Iran, (A22.2) Low-Temperature Lateral Crystallization of Amorphous Silicon on Glass, and (A22.10) Metal-Free Germanium-Induced Crystallization of Amorphous Si on Glass; **Job**

Rijssenbeek, Northwestern University, (D1.3) Synthesis and Characterization of the First 1:2 Ordered Perovskite Ruthenate; **Matthew Robinson**, University of California—Santa Barbara, (P1.1) High-Efficiency Polymer-Based Electrophosphorescent Devices, and (P2.2) High-Performance LEDs Using Newly Designed Iridium Complexes as Dopants in Conducting Polymers; **Eric W. Seelig**, Northwestern University, (L7.5) Photonic Crystals from Monodisperse ZnO Colloidal Spheres; **Eli D. Sone**, Northwestern University, (S2.2) Cadmium Sulfide Helices Templated by Self-Assembled Nanoribbons; **Erik D. Spörke**, Northwestern University, (N6.3) Metal-Bone Biohybrids; **Saravanapriyan Sriraman**, University of California—Santa Barbara, (A1.2) Interactions of Atomic Deuterium with Hydrogenated Amorphous Silicon Thin Films—An *In Situ* Study Using Multiple Total Reflection Fourier Transform Infrared Spectroscopy, and (A25.5) Atomic-Scale Analysis of the H-Induced Disorder-to-Order Transition in Plasma-Deposited Silicon Thin Films; **Yayoi Takamura**, Stanford University, (C3.5) Dopant Deactivation in Heavily Sb-Doped Si(001)—A High-Resolution X-Ray Diffraction Study, and (C3.6) The Local Structure of Antimony in High-Dose Antimony Implants in Silicon by XAFS and SIMS; **Guofeng Wang**, California Institute of Technology, (W4.5) The Role of the Atomistic Simulation in a Multi-scale Approach for Modeling Crystalline Solids; and **Haoquan Yan**, University of California—Berkeley, (K10.6) Room-Temperature Ultraviolet Nanolasers. MRS

NEW in the MRS Workshop Series

International Workshop on Processing and Applications of Superconductors

• August 1-2, 2002 • Park Vista Resort Hotel • Gatlinburg, Tennessee

Major advances have been made in the last 14 years in high-temperature superconductor (HTS) research, resulting in increasing use of HTS materials in commercial and precommercial applications. The focus of this workshop will bring the discussions between the international experts towards the development of long-length YBCO coated conductors and applications of high temperature superconductors.

Topics include: importance of coated conductors, YBCO by pulsed laser deposition, YBCO by *ex situ* BaF₂/TFA process, applications of YBCO-coated conductors, breaking news/results/new directions/discussions, biaxially textured substrates by IBAD & ISD, new developments in buffer-layer technology, and characterization of coated conductors

See program details at <http://www.mrs.org/meetings/workshops/2002/superconductors>



Materials Research Society

506 Keystone Drive, Warrendale, PA 15086 • Tel 724-779-3003 • Fax 724-779-8313 • E-mail info@mrs.org