Material Advantage Contest Award Winners 2011

Material Advantage Graduate Student Poster Competition (Organized by the Ceramic Educational Council)

<u>1st Place</u> Julie Drexler The Ohio State University "Mitigation Mechanisms for CMAS (Sand) Resistant Thermal Barrier Coating Materials"

<u>2nd Place</u> Jin Luo University of Kentucky "Integration of a microfluidic oxygen sensor into LTCC for in-vitro diagnostics"

<u>3rd Place</u> Haruhiko Atsumi Osaka University "The Characteristics of High Strength and Lead-Free Machinable α-β Duplex Phase Brass Cu-40Zn-Cr-Fe-Sn-Bi Alloy"

Material Advantage Undergraduate Student Poster Competition (Organized by the Ceramic Educational Council)

<u>1st Place</u> Rafael A. Soler-Crespo University of Puerto Rico - Mayagüez Campus "Electrochemical dealloying of aluminum-zinc alloys: formation of macroporous structures"

<u>2nd Place</u> Nick Fries Iowa State University "Study of the Effect of Wheel Temperature on Microstructure of Nd2Fe14B Melt-Spun Ribbons"

<u>3rd Place</u> Laura Van Steenhuyse Iowa State University "Characterizing the Flow Behavior of Aqueous Nanopowder Suspensions"

Honorable Mention Blake Whitley University of Alabama "Optimization of Advanced Polystyrene Nanosphere Lithography to form Nanorods for Improved Solar Absorbers and Graded Media Applications" Honorable Mention Blair Wendt Colorado School of Mines "Utilizing Alginates to Create Green Chemistries for Gel Casting"

Material Advantage Undergraduate Student Speaking Contest (Organized by the Ceramic Educational Council)

<u>Winner</u> Parul Koul University of Illinois, Urbana-Champaign "Hex Mesh Degradation Investigation"

<u>1st Runner-Up</u> John Solomon Iowa State University "A Biologically Active Ceramic - Ceramic Composite for Use in Orthopedic Applications"

2nd Runner-Up

- Charles Forman Virginia Tech "Surface Characterization of a High-Performing Superconducting Radiofrequency Niobium Accelerator Cavity"
- Ian Zeller Clemson University "Modification of PVDF Fibers with PNIPAM Containing Nanogels"

Material Advantage Ceramic Mug Drop Contest (Organized by Keramos)

<u>Winner – passing @ 60 cm drop</u> Michelle Gervasio Virginia Tech

<u>Most Aesthetic Mug</u> Liz Reidmeyer Missouri University of Science & Technology