

Material Advantage Contest Award Winners 2012

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

1st Place

Solaiman Tarafder

Washington State University

"Effect of Local Alendronate Delivery on *In Vivo* Osteogenesis From PCL Coated 3D Printed β -TCP Scaffolds"

2nd Place

Owen James McGann

University of Sheffield

"The Effects of Gamma Radiation in Glasses Intended for the Immobilisation of UK ILW Nuclear Wastes"

3rd Place

Jesse Angle

University of California, Irvine

"Thermal Measurements of 3- and 4-Phase Ceramic Composites using OOF2 Analyses"

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

1st Place

Nathan Reeves

Walla Walla University

"New Factors in Understanding Glass Dissolution: The Effect of Geometry"

2nd Place

Samantha MacIntyre

Shippensburg University

"The Effects of Sputtering Energy regarding Defect Formation on the Ge(110) Surface as Observed through Scanning Tunneling Microscopy"

3rd Place

Aeriel Murphy

University of Alabama

"Quantifying the Beta Phase ($Mg_{17}Al_{12}$) In the Magnesium Alloy AZ91"

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

Winner

Spencer Wells

University of Illinois at Urbana-Champaign
"Mixed Equilibrium Solid Solubility of Ga_2O_3 and SnO_2 in In_2O_3 "

1st Runner-Up

Ruilong Ma
Northwestern University
"Moore's Law and the Diagnosis of Infectious Diseases"

2nd Runner-Up

1. Jennifer DeHaven
Missouri University of Science & Technology
"Direct Write of Micro-Circuitry via the Development of Capillary Focusing Cold Spray Technology"
2. Emily Fucinato
Pennsylvania State University
"Single Walled Carbon Nanotubes and Barium Titanate Crystals as an Anti-reflective Coating for Photovoltaic Cells"

Material Advantage Ceramic Mug Drop Contest (*Organized by Keramos*)

Winner (tied - passing @ 400 cm drop each)

Wen Yang
University of Illinois, Urbana-Champaign

Rudi Bredemeier
University of Illinois, Urbana-Champaign

Most Aesthetic Mug (tied)

Rebecca Mullen
Missouri University of Science & Technology

An Dang
University of Washington