

## **Material Advantage Contest Award Winners 2016**

### **Material Advantage Graduate Student Poster Competition**

#### 1<sup>st</sup> Place

Jamesa L. Stokes

The Pennsylvania State University

"Assessment of Mechanical Behaviors of Co-Evaporated EBPVD TBCs with Varying Rare Earth Content"

#### 2<sup>nd</sup> Place

Lindsey Pruden

The University of Utah

"Plasmonic, Flexible, Free-Standing, Monolayer Gold Nanoparticle Films for Plasmonic Applications"

#### 3<sup>rd</sup> Place

Leila Ghadbeigi

University of Utah

"Synthesis of Iron-doped Na-  $\beta$ "-Alumina + Ytria-Stabilized Zirconia Composite Electrolytes by a Vapor Phase Process"

### **Material Advantage Undergraduate Student Poster Competition**

#### 1<sup>st</sup> Place

Jacob Kline

University of Idaho

"Doubling the Life of Concrete Structures"

#### 2<sup>nd</sup> Place

Andrew Nguyen

University of Connecticut

"Design, fabrication, and characterization of collagen-based multi-zonal scaffolds for osteochondral tissue engineering"

#### 3<sup>rd</sup> Place

Daisy Margrave

Montana Tech

"Deposition of Rare Earth Elements on Ion-Exchange Resins"

#### Honorable Mention

Justin Weinstein

Rensselaer Polytechnic Institute

"Melting Prevention of Superalloys in High Temperature Heat Treatments"

### **Material Advantage Undergraduate Student Speaking Contest**

#### Winner

Wyatt Surbey

Virginia Polytechnic Institute and State University

"Bio-inspired Tissue Repair"

#### 1<sup>st</sup> Runner-Up

Evan Musterman

Missouri University of Science and Technology

"Mechanization of Flat Glass Production"

## 2<sup>nd</sup> Runner-Up

1. Sarah Rappaport  
Northwestern University  
"The Atomic Layer Deposition of Tin Sulfide"
2. Joshua Tedesco  
Rutgers, The State University of New Jersey  
"Potassium Doped Silica Nanoparticles as an Advanced, Ecofriendly, and Economical Insecticide"

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

### Winner (passing @ 120 cm drop)

Michael Hu  
University of Illinois at Urbana-Champaign

### Most Aesthetic Mug

Stephanie Soendker  
Missouri University of Science and Technology

## **Material Advantage Ceramic Disc Golf Contest (*Organized by Keramos*)**

### Winner (successful toss from a distance of 7 meters)

Reed Coots  
Clemson University

### Most Aesthetic Disc

Elisabeth Lang  
University of Illinois at Urbana-Champaign