

Material Advantage Contest Award Winners 2021

Material Advantage Graduate Student Poster Competition

1st Place - \$250

Celia Chari
California Institute of Technology
Effect of Boria on the Oxidation Behavior of Aluminum Nitride

2nd Place - \$150

Rupesh Rajendran
Georgia Institute of Technology
Effect of Heat Treatment on Microstructure and Corrosion Behavior of Additively Manufactured 7050 Aluminum Alloy

3rd Place - \$100

Gaurav Singh
Indian Institute of Technology Madras
The Effect of Rotary Swaging on Zirconium Alloys and its Microstructure Property Correlation

Material Advantage Undergraduate Student Poster Competition

1st Place - \$250

Amelia Martinez
University of Missouri Science and Technology
Effect of Carbon Stoichiometry on the Heat of Formation of Hafnium Carbides

2nd Place - \$150

Mirra Rasmussen
Case Western Reserve University
Perovskite Film Formation for Solar Cell Absorbers: Effects of Substrate Modification

3rd Place - \$100

Hugh Smith
Case Western Reserve University
Machine Learning Approaches to Predict Properties from Microstructure Images in Ceramic-Metal Composites

Material Advantage Undergraduate Student Speaking Contest

1st Place - \$500

Alison Nunes
University of Illinois, Urbana-Champaign
Determining the effects of mesenchymal stromal cell remodeling on hematopoietic stem cell maintenance

2nd Place - \$250

Mingwei Xu
Case Western Reserve University
Post-Additive Manufacturing Densification, Dimensional Stability, and Defects of a Commercial Stereolithography Ceramic Resin

Material Advantage Undergraduate Student Speaking Contest (*continued*)

3rd Place - \$150

Yulia Kirina

Virginia Polytechnic Institute and State University

Retrieving Multi-Dimensional Information from a Microscopy Investigation

4th Place - \$100

Yuxi Zhang

Wuhan University of Technology

Confining 2D Oxygen Vacancies Along Grain Boundaries of MnO₂ Nanowires

Material Advantage Ceramic Mug Drop Contest

Organized by Keramos

Winner - \$100 and trophy

Sophie Grier

Missouri University of Science and Technology

Most Aesthetic Mug - \$50

Elliot Sutalski

Missouri University of Science and Technology

VIRTUAL: Most Aesthetic Mug - \$50

Claire Pallett

Missouri University of Science and Technology

Material Advantage Ceramic Disc Golf Contest

Organized by Keramos

Winner - \$100 and trophy

Camden Holloway

Virginia Polytechnic Institute and State University

VIRTUAL: Most Aesthetic Disc - \$100

Jacob Stacy

Missouri University of Science and Technology

Material Advantage Social Media Contest

\$100

Neelam Meena

Indian Institute of Technology Bombay