

## 2019 Ceramographic Exhibit

Winner – Roland B. Snow Award for Best in Show

“Purdue’s ZnO Loops”

Xin Li Phuah and Haiyan Wang

Purdue University, West Lafayette, IN

### Individual Category Winners:

#### *Scanning/Transmission Electron Microscopy (S/TEM)*

1<sup>st</sup> Place: “Stars and Stripes” by Joshua Smeltzer, Christopher J. Marvel, and Martin P. Harmer  
Lehigh University, Bethlehem, PA; Anit Giri, B. Chad Hornbuckle, and Kristopher Darling  
US Army Research Laboratory - Aberdeen Proving Ground, MD

2<sup>nd</sup> Place: “Artistic Artifact” by Yolande Berta, Yong Ding, Salil Joshi, Ning Xia, and Rosario Gerhardt

Georgia Institute of Technology, Atlanta, GA

3<sup>rd</sup> Place: “Porous Nanoscale Y-Ti Oxide Resembling “Lotus Receptacle” by Mallikarjun Karadge  
and Shenyan Huang

GE Research, Niskayuna, NY

#### *Scanning Electron Microscopy (SEM)*

1<sup>st</sup> Place: “Purdue’s ZnO Loops” by Xin Li Phuah and Haiyan Wang

Purdue University, West Lafayette, IN

2<sup>nd</sup> Place: “Eutectic Microstructures Induced by Flash Sintering” by Yingjie Yang and Martha Mecartney

University of California – Irvine, CA

3<sup>rd</sup> Place: “Solid State Reaction and Single Crystal Growth Along Interphase Boundaries” by  
Kevin Anderson, Anit Giri, Richard P. Vinci, Helen Chan

Lehigh University, Bethlehem, PA

#### *Optical/Confocal Microscopy*

1<sup>st</sup> Place: “Basket Weave” by Chris McLasky, Shenyan Huang, Scott Weaver, Cole Crawford,  
Evan Dolley

GE Research, Niskayuna, NY

2<sup>nd</sup> Place: “Deformation and Cracking in a Ceramic Powder Compact during Dewaxing” by Mayu  
Kato, Junichi Tatami, Motoyuki Iijima, Takuma Takahashi

Yokohama National University, Japan

#### *Undergraduate Studies:*

1<sup>st</sup> Place: “Intermediate Reduction of Cobalt Oxide” by Madison Gianelle, Animesh Kundu,  
Helen Chan

Lehigh University, Bethlehem, PA

2<sup>nd</sup> Place: “Microstructure of Electrochromic NiO Film” by Kristen Wong and Khalid Rafique  
University of California – Irvine, CA

