

## Class 1 – Light Microscopy – All Materials

#### First Place

Controlling Melt Pool Geometry Towards Embedding Sensors with Laser Powder Bed Fusion Holden Hyer Oak Ridge National Laboratory Oakridge, TN

#### **Second Place Dubose-Crouse Award**

Development of a Versatile Etchant to Reveal Grain Boundaries in Aluminum Alloys Wayne Papageorge
The Ohio State University
Columbus, OH

## **Third Place**

Discovering the deformation mechanism of HCP metals additively manufactured using polarized (POL) and differential interference contrast (DIC) techniques
Blanca Palacio
Florida International University
Miami, FL

#### **Honorable Mention**

Heat Tinting to Enhance Meteorite Microstructure Derek Barnes Product Evaluation Systems Latrobe, PA

# Class 2 – Electron Microscopy, All Materials

## **First Place**

Metallographic Evaluation of Damaged Secondary Fuel Nozzle Girish Shejale and Vishal Suryawanshi, Masaood John Brown Lab Dubai, UAE

#### **Second Place**

Effect of vanadium micro-alloying on microstructural evolution and mechanical properties of A354.0 squeeze-cast alloy

Mr. Yogendra Mahton, Mr. Mahesh Pandiripalli, and Prof. Partha Saha Department of Ceramic Engineering, National Institute of Technology Rourkela Sundargarh, Odisha, India



# Class 2 – Electron Microscopy, All Materials

#### Third Place

Microstructural Damages of Engine Run Turbine Buckets Girish Shejale, and Darshan Ahire Masaood John Brown Lab Dubai, UAE

# Class 3 – Student Entries – All Materials (Undergraduate Students Only)

## **First Place**

Chick Magnet - Sounds from a Chevy Subwoofer Henry Price, Eric Tkach, and Dr. Laura Moyer Lehigh University Bethlehem, PA

#### **Second Place**

The MicroAngelos: The Art and Science of Microstructures Gabriella Moreno, Elias Roll, Hunter Johnson, and Gerald R. Bourne Colorado School of Mines Golden, CO

#### Third Place

An Investigation of Acoustic Guitar String Processing Andrew Planitz The Ohio State University Columbus, OH

# Class 4 – Artistic Microscopy – Color

#### First Place

Hollow sphere of FeO and its dendritic structure
Demmys Kelsen Florentino de Sousa
SENAI/CTGAS-ER - Centro De Tecnologias Do Gás E Energias Renováveis
Laoa Nova, Natal – RN – Brazil

## **Second Place**

Just Before Sunrise Monika Trπbska Laboratoria BadaÒ ìBatoryî / Research Laboratories ìBatoryî Poland



# Class 4 - Artistic Microscopy - Color

#### **Third Place**

Peony Xueni Huang University of Connecticut Storrs, CT

## **Honorable Mention**

The Coppery Night (Detail) Tobia Romano Politecnico di Milano Milan, Italy

## **Honorable Mention**

Cast Zircaloy Mauricio Mendes Costa Centro Tecnológico da Marinha - DDNM – LACAM Brazil

#### **Honorable Mention**

Cast Iron Graphite Brian Tiell The Ohio State University Columbus, OH

## Class 5 – Artistic Microscopy – Black and White

## **First Place**

Moth Fly Sheri Neva, Eurofins – EAG Los Angeles El Segundo, CA

## **Second Place**

Zinc Iceberg Monika Trπbska Laboratoria BadaÒ ìBatoryî / Research Laboratories ìBatoryî Poland



# Class 5 – Artistic Microscopy – Black and White

## **Third Place**

At the mountains of madness Xueni Huang University of Connecticut Storrs, CT

## **Honorable Mention**

δ-ferrite solidification during welding of stainless steel Amina Sriba Research Centre in Industrial Technologies (CRTI) Algeria

## **Honorable Mention**

Molten Salt Corrosion Revealing Crystallographic Texture of Ni5Cr Alloys Ho Lun Chan University of Virginia Charlottesville, VA

#### **Honorable Mention**

Gray cast iron edge Demmys Kelsen Florentino de Sousa SENAI/CTGAS-ER - Centro De Tecnologias Do Gás E Energias Renováveis Brazil