

TMS 2023

BEST POSTER RECIPIENTS

ANNOUNCED

AT TMS2023

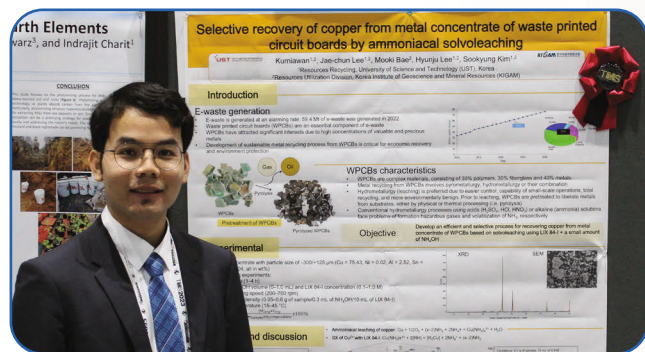
Jillian Schultz



The TMS 2023 Annual Meeting & Exhibition (TMS2023), in San Diego, California, March 19–23, 2023, recognized undergraduate and graduate posters for excellence in the 2023 Technical Division Student Poster Competition. The Materials Characterization Committee also recognized quality work through a poster competition. Congratulations to all the award recipients who are featured on the following pages.

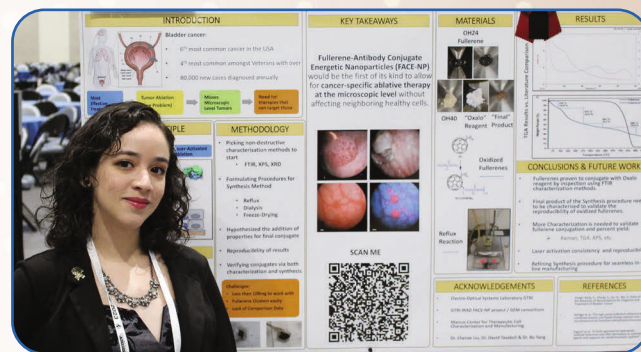
TECHNICAL DIVISION STUDENT POSTER CONTEST WINNERS

Extraction & Processing Division



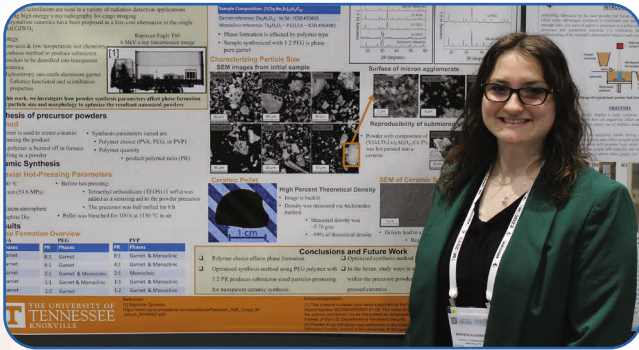
Graduate: "Selective Recovery of Copper from Metal Concentrate of Waste Printed Circuit Boards by Ammoniacal Solvo-leaching," **Kurniawan Kurniawan**, Korea University of Science and Technology

Functional Materials Division



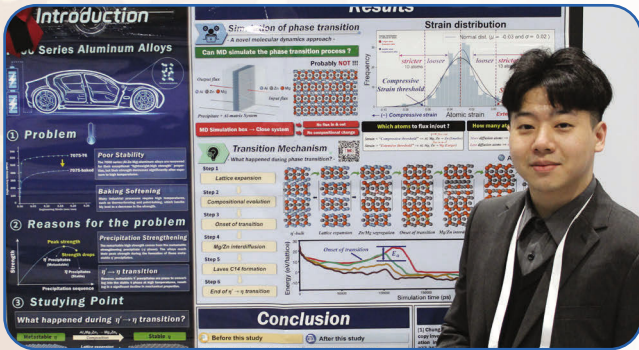
Graduate: "Synthesis and Characterization of Fullerene-Antibody Conjugate Energetic Nanoparticles (FACE-NP) for Bladder Cancer Treatment," **Carolina Colón**, Georgia Institute of Technology

Functional Materials Division



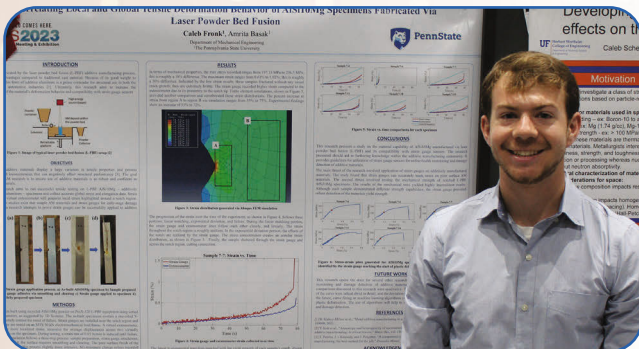
Undergraduate: "Investigation of High Entropy Precursor Powder Synthesis for Transparent Ceramic Synthesis," Marlena Alexander, University of Tennessee Knoxville

Light Metals Division



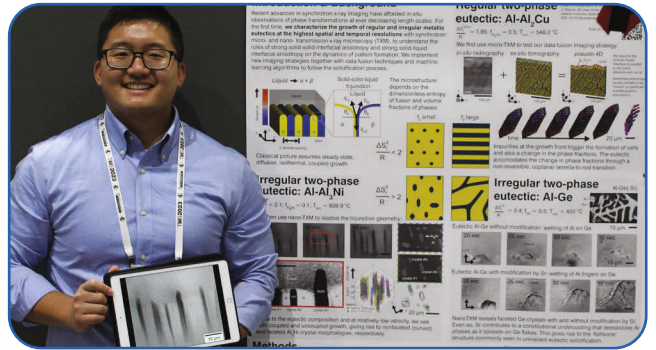
Graduate: "Transition Mechanism for the Metastable Phases in Al-Zn-Mg Alloys: A Novel Molecular Dynamics Approach," Yu-ning Chiu, National Cheng Kung University

Light Metals Division



Undergraduate: "Correlating Local and Global Tensile Deformation Behavior of AlSi10Mg Specimens Fabricated Via Laser Powder Bed Fusion," Caleb Fronk, Penn State University

Materials Processing & Manufacturing Division



Graduate: "In Operando Synchrotron X-ray Tomography Study of Fine Eutectic Polyphase Solidification Patterns," Paul Chao, University of Michigan

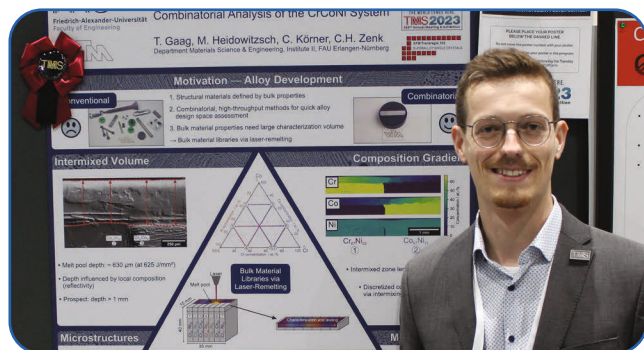
Materials Processing & Manufacturing Division

Undergraduate: "Assessing Laser Powder Bed Additive Manufacturing Part Quality via In-Situ Monitoring & Machine Learning," Ana Love, University of New Mexico (not pictured)

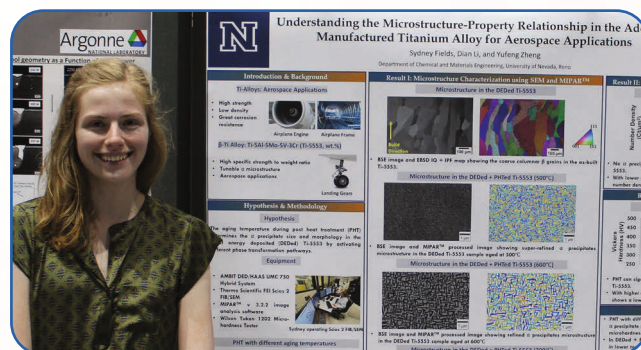
PARTICIPATE IN THE 2024 STUDENT POSTER CONTEST

The 2024 TMS Technical Division Student Poster Contest will soon be open for abstract submissions. Check the TMS 2024 Annual Meeting & Exhibition (TMS2024) website in the coming months for details on how to enter. Then plan to join us at the Hyatt Regency Orlando in Orlando, Florida, for TMS2024, March 3-7.

Learn more at www.tms.org/TMS2024.

Structural Materials Division

Graduate: "Bulk Material Libraries via Laser-Remelting: Combinatorial Analysis of the CrCoNi System," **Tobias Gaag**, Friedrich-Alexander-Universität Erlangen-Nürnberg

Structural Materials Division

Undergraduate: "Understanding the Microstructure-Property Relationship in the Additive Manufactured Titanium Alloy for Aerospace Applications," **Sydney Fields**, University of Nevada, Reno

EPD MATERIALS CHARACTERIZATION COMMITTEE BEST POSTER AWARD

This award recognizes the individual excellence of a poster within the Materials Characterization subject area presented in a session sponsored by the Extraction & Processing Division (EPD). These posters were presented at the TMS 2022 Annual Meeting & Exhibition in Anaheim, California, and recognized at the TMS 2023 Annual Meeting & Exhibition in San Diego, California.

First Place

"Characterization of Chiral Spin Structures in Pt/Co/Ni Based Magnetic Superlattices," **Nisrit Pandey, Maxwell Li, Marc De Graef, and Vincent Sokalski**, Carnegie Mellon University

Second Place

"Influence of Laser Scan Speed on the Diffusion and Vaporization of a Solid-state Electrolyte Produced Using Laser Powder Bed Fusion," **Leanna Hao, Katherine Acord, and Julie Schoenung**, University of California, Irvine

Third Place

"Computer Vision for Microvia Characterization," **Nikhil Damani, Pragna Bhaskar, Mohan Kathaperumal, and Madhavan Swaminathan**, 3D Systems Packaging Research Center, Georgia Institute of Technology

VIEW MORE PHOTOS FROM TMS2023

Hundreds more photos are now available to view from TMS2023 events on Flickr at www.flickr.com/photos/tmsevents. Browse the photos for an overview of activities at the meeting or to find pictures of yourself and your colleagues.