## **Industry Presenters**

We are pleased to announce that ACRC members, faculty and students, along with associates, will be presenting at <u>TMS 2025 Annual Meeting & Exhibition</u>, as well as at AFS CastExpo 2025.

## TMS - March 23 -27, 2025 in Las Vega

- Keynote Speaker, Alan Luo "Aluminum Alloy Development and
   Manufacturing Processes for Sustainable Transportation Applications"
- Jianyue Zhang, Jiashi Miao, Alan Luo, Hongyi Zhan, Jianfeng Wang "Effect of Cooling Rate on the Solidification Behavior of AMZ211-Y/Ca Alloys"
- Raquel Fierro Jaime, Hélder Puga, Diran Apelian "Ultrasonic Treatment of Aluminum Alloys for Microstructural Modification"
- Shrivatsav Shankar, Carl Soderhjelm, S. Wiesner, Diran Apelian "An
   Alternative Route to Upcycling Low Value Post Consumer Al Scrap (Twitch)
   Without Sortation"
- Sakshi Bajpai, Xin Wang, Bijun Xie, Calvin H. Belcher, Benjamin E. MacDonald,
   Julia Ivanisenko, Yu Zhong, Penghui Cao, Enrique J. Lavernia, Diran Apelian "Role of Interfaces in Phase Decomposition of CoCrNi Alloy"
- Wanjuan Zou, Diran Apelian, Timothy J. Rupert, Xiaoqing Pan, Penghui Cao "Dislocation Pattern and Motion Mechanisms of Twist Grain Boundaries in High-Entropy Alloys"
- Janet Meier, Jiashi Miao, Lisa DeBeer-Schmitt, Jan Ilavsky, Alan Luo "Effects
  of Zn and Ca Microalloying on β-Series Precipitation in Mg-Nd Alloys a
  Comparison of Electron Microscopy and Small-Angle Scattering
  Techniques"
- Bo Zhao, Jiashi Miao, Alan Luo, Shuaihang Pan "Phase Transformation in Al-Cu-Sc Alloy and Its Impact on Corrosion Performance"

- Austin Tiley, Chia-Yu Chang, Emily Holt, Yi Song, John Chen, Ben DiMarco, John Middendorf, Alan Luo - "Process Development and Microstructure Evaluation of Additive Manufacturing of Silicon Components"
- Alan Luo, Renhai Shi, Jianyue Zhang "Designing Lightweight Alloys Based on CALPHAD Modeling and Machine Learning"

## CastExpo - April 12 - 15, 2025 in Atlanta

- Cheolmin Ahn, Carl Söderhjelm, Diran Apelian "Development of a Selfregulating Permanent Molds Incorporating Phase Change Materials (PCMs)"
- Kentaro Lunn, Zac Han, Carl Söderhjelm, Diran Apelian, Jovid Rakhmonov, Hsin Wang - "Conductivity and Structural Changes in Al-Ni Alloys with Varying Ni Content"
- Jianyue Zhang, Qigui Wang, Alan Luo "The Role of Intermetallic Phases in Hot Tearing of Multicomponent Aluminum Alloys"