

THE WORLD COMES HERE

TMS2027

156th Annual Meeting & Exhibition

MARCH 14–18, 2027
ORLANDO WORLD CENTER MARRIOTT
ORLANDO, FLORIDA, USA

JOIN US FOR THE FOLLOWING SYMPOSIUM

www.tms.org/TMS2027

MATERIALS SYNTHESIS AND PROCESSING

Shape Casting: High Integrity Castings for Structural Applications

This symposium will cover the latest developments in high integrity castings for structural applications, including (but not limited to) high-pressure and low-pressure die casting, gravity casting (sand and permanent mold), and semi-solid casting processes.

The following topic areas are especially encouraged:

- Alloy design for high integrity casting applications
- Casting design for lightweighting and castability
- Mold materials and additive manufacturing technologies for casting development
- Computational modeling and digital twins for casting applications
- Casting defects formation and prediction
- Sustainability and circular manufacturing in shape casting
- Applications of artificial intelligence(AI) and machine learning~%& Mechanical properties and performance of shape castings

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TMS Materials Processing and Manufacturing Division

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TMS: Solidification Committee

ORGANIZING COMMITTEE

- **Alan Luo**, Ohio State University
- **Randy Beals**, Magna International
- **Qigui Wang**, General Motors
- **Carl Soderhjelm**, University of California Irvine
- **Jianyue Zhang**, The Ohio State University

QUESTIONS? Contact programming@tms.org

KEY DATES:

July 1, 2026: Abstract Submissions Due
October 2026: Registration Opens
January 31, 2027: Discount Registration Deadline