ForCAST

The Newsletter of the American Metalcasting Consortium

Summer 2023

AMC Conducts 2023 Virtual Technology Review

The 2023 AMC Technology Review was a success this year on August 17. Thirty seven people participated in the virtual event. With just seven presentations - four from Innovative Casting Technologies (ICT), two from Emergent Metal Casting Solutions (EMCS), plus one bonus presentation - this year's event was shorter than prior years. This is because the ICT program is ending and the new AMC EMCS program is just beginning. AMC plans to return to the usual two-day in-person AMC Technology Review event next year on June 12-13, 2024 once more EMCS projects are awarded this fall. Thanks to all participants for their support of this year's AMC Technology Review!

AMC Innovative Casting Technologies (ICT) Completes Two Task Orders

The AMC Innovative Casting Technologies program completed two Task Orders on July 31, 2023. The following projects have final reports that have been submitted to DLA for approval for public release:

Task Order SP4701-18-F-0048

- Improving Mechanical Properties of Heavy Section Austenitic Steel Castings
- Die Casting of High-Temperature Alloys
- Rapid Creation of Tooling with Conformal Cooling
- Advanced Engineered Coatings with Extended Die Life for Tooling
- Rapid Production Using Additive Manufacturing

Task Order SP4701-18-F-0049

- High Pressure Die Casting Process Modeling and Simulation Development for the Shop Floor
- Modeling of Reoxidation and Inclusions in Steel Castings
- Integration of ICME Tools in Casting Design and Process Optimization for Intelligent Manufacturing
- Intensive Quenching to Produce High Performance Cast Parts
- Ultrasonic Cavitation-Based Dispersion for Nanocomposites Casting
- Cast Metal-Ceramic Lattice Structures for Lightweight Energy Absorbing and/or Penetration Resistant Structures
- Digital Standard for Surface Quality Inspection

Upcoming Events

- Visit AMC at the 2023 NADCA Die Casting Congress and Tabletop, Booth 332, Grand Rapids, MI on September 19-21, 2023
- SFSA Technical & Operating Conference, December 6-9, 2023, Chicago, IL
- AMC will be supporting DLA in Booth 618 at the 2023 Defense Manufacturing Conference, December 11-14, 2023 at the Music City Center, Nashville, TN
- AMC Technology Review on June 12-13, 2024, Chicago-O'Hare area, IL

AMC
AMERICAN METALCASTING CONSORTIUM

For more information about AMC go to https://amc.ati.org

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