

2020 AMC Virtual Technology Review - Final Agenda

June 23-25, 2020

Day 1 Agenda: Tuesday, June 23, 2020 (all times EDT)

<i>Start</i>	<i>End</i>	<i>Topic</i>	<i>Leader(s)</i>	<i>Duration</i>
9:00 AM	9:10 AM	Welcome, Introductions, and Program Overview	Thornton White / Jenny Swygert, ATI	10
9:10 AM	9:40 AM	On-Demand Melting	Charles Monroe, University of Alabama	30
9:40 AM	10:10 AM	High Pressure Die Casting Process Modeling and Simulation Development for the Shop Floor	Jack Moreland, Purdue University Northwest	30
10:10 AM	10:40 AM	Advanced Engineered Coatings with Extended Die Life for Tooling	Steve Midson, Colorado School of Mines	30
10:40 AM	10:55 AM	<i>Break</i>	-	15
10:55 AM	11:30 AM	On Demand Casting of Net-Shape Titanium Components for Improved Weapon System Reliability	Charles Monroe, UA; Steve Midson, CSM; Paul Brancaleon, NADCA	35
11:30 AM	12:00 PM	Rapid Creation of Tooling with Conformal Cooling	Carl Soderhjelm, Worcester Polytechnic Institute	30
12:00 PM	12:30 PM	CAST-IT: DoD Procurement Support, Workforce Development, and Technology Transition	Julia Spieker, ATI	30

Day 2 Agenda: Wednesday, June 24, 2020 (all times EDT)

<i>Start</i>	<i>End</i>	<i>Topic</i>	<i>Leader(s)</i>	<i>Duration</i>
9:00 AM	9:05 AM	Welcome	Thornton White / Jenny Swygert, ATI	5
9:05 AM	9:35 AM	Cast Metal-Ceramic Composite Lattice Structures for Lightweight Applications	Alan Druschitz, Virginia Tech	30
9:35 AM	10:05 AM	Integration of ICME Tools in Casting Design and Process Optimization for Intelligent Manufacturing	Jiten Shah, PDA	30
10:05 AM	10:35 AM	Ultrasonic Cavitation Based Dispersion for Nano-composites Casting	David Weiss, Eck Industries	30
10:35 AM	10:50 AM	<i>Break</i>	-	15
10:50 AM	11:20 AM	Integrated Casting Ordering Network (ICON) Portal Enhancement and Supply Chain Development	Sheila Rayburn, Non-Ferrous Founders' Society	30
11:20 AM	11:30 AM	Specifications and Standards for Enhanced Casting Performance: Properties vs. Section Thickness	Paul Brancaleon, North American Die Casting Association	10
11:30 AM	11:40 AM	Specifications and Standards for Enhanced Casting Performance: Casting Alloy Data Selector (CADS)	Steve Robison, American Foundry Society	10
11:40 AM	11:50 AM	Specifications and Standards for Enhanced Casting Performance: Workforce Development Toolkit	Raymond Monroe, Steel Founders' Society of America	10
11:50 AM	12:20 PM	Identifying Casting Process Complexity and Applying Cost Minimization	Charles Monroe, University of Alabama	30

Day 3 Agenda: Thursday, June 25, 2020 (all times EDT)

<i>Start</i>	<i>End</i>	<i>Topic</i>	<i>Leader</i>	<i>Duration</i>
9:00 AM	9:05 AM	Welcome	Thornton White / Jenny Swygert, ATI	5
9:05 AM	9:35 AM	Cast Forging Preforms with Job Specific Performance Properties	Charles Monroe, University of Alabama	30
9:35 AM	10:05 AM	Improving Mechanical Properties of Heavy Section Austenitic Steel Castings	John DuPont, Lehigh University	30
10:05 AM	10:35 AM	Modeling of Reoxidation and Inclusions in Steel Castings	Christoph Beckermann, University of Iowa	30
10:35 AM	11:05 AM	Digital Standard for Surface Quality Inspection	Frank Peters, Iowa State	30
11:05 AM	11:20 AM	<i>Break</i>		15
11:20 AM	11:50 AM	Rapid Production Using Additive Manufacturing / Digital Tooling	Jerry Thiel, University of Northern Iowa	30
11:50 AM	12:20 PM	Intensive Quenching to Produce High Performance Cast Parts	Laura Bartlett, Missouri University of Science & Technology	30
12:20 PM	12:50 PM	Automated Image Analysis	William Monroe, University of Alabama - Birmingham	30
12:50 PM	1:00 PM	Meeting Wrap-Up	Thornton White / Jenny Swygert, ATI	10