

TENTATIVE SCHEDULE

MAY BE SUBJECT TO CHANGE

MONDAY, OCTOBER 16

6:00 PM	DIS Research Committee Dinner (All Committees Welcome!) Must RSVP by Friday, October 6, to attend.
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TUESDAY, OCTOBER 17

9:00 AM - 12:00 PM	Research Committee Meeting
1:00 PM	DIS Committee Meetings (Members Only)
2:30 PM	Metal Casting Forum
6:00 PM	Cocktail Hour

WEDNESDAY, OCTOBER 18

7:00 AM	Registration Opens
8:00 AM	General Sessions Begin
8:00 AM	Welcome Eric Nelson, DIS President, Dotson Foundry
8:10 AM	Keynote Address-Industry: "Thoughts & Insight on Ductile Iron and CGI for Ground Transportation Applications" Andrew Halonen, Mayflower Consulting, LLC
8:50 AM	Development of an Austempered Ductile Iron Unimog 3 Point Linkage Power Lift Arm A.Rimmer, ADI Treatments Ltd, West Bromwich, West Midlands U.K.
9:30 AM	Achieving Higher Strength and Toughness in Heavy-Section Ductile Iron Castings – DIS RESEARCH PROJECT #63 Rick Gundlach, FASM
10:10 AM	Break

10:25 AM	<p>Graphite Spheroids: The Place Where They Are Born Gorka Alonso, Azterlan</p>
11:10 AM	<p>Graphite Spheroids: The Way they Grow D. M. Stefanescu, The University of Alabama and The Ohio State University</p>
12:00 PM	Lunch
1:15 PM	<p>The Effects of MgFeSi and Inoculant Selection on Microstructure and Mechanical Properties of Varying Section Size Ductile Iron Castings Trevor Beach, Betz Industries</p>
1:55 PM	<p>Interaction Between Boron and Pearlite Stabilizers in Spheroidal Graphite Irons Leander Michels, Elkem Silicon Products</p>
2:35 PM	<p>The Role of Mn, Cu and Sn in Spheroidal Graphite Irons: Pearlite Formation Mechanism A.V. Bugten, Norwegian University of Science and Technology (NTNU)</p>
3:15 PM	Break
3:35 PM	<p>Effects of Titanium and Cerium Addition on Grain Size and Mechanical Properties of Ductile Iron Castings Jingjing Qing, Georgia Southern University</p>

4:00 PM	<p>AI/ML Driven Metamodels for the Ductile Iron Foundry Process Engineers in an Industry 4.0 Environment</p> <p><i>Jiten Shah, Product Development & analysis (PDA) LLC</i></p>
4:55 PM	<p>Adjourn</p>
6:00 PM	<p>Reception (Skylight Foyer) Drinks and Hors d'oeuvres</p>

THURSDAY, OCTOBER 19

7:00 AM	<p>Registration Opens</p>
8:00 AM	<p>General Sessions Begin</p>
8:00 AM	<p>Keynote Address-Academia: “How to build an Metalcasting Program from the Ground-up, Georgia Southern University Story”</p> <p><i>J. Qing, M. Xu, Georgia Southern University</i></p>
8:30 AM	<p>Improvement of High Temperature Performance of High Si SGI by Al Alloying and Optimizing Micro-Structural Dispersity</p> <p><i>Simon N. Lekakh, Missouri University of Science and Technology</i></p>

<p>9:10 AM</p>	<p>Comparison of Ba and Ca additions on the Thermochemical Properties of Ductile Iron Slags, and Effects on MgFeSi Treatment Efficiency and Final Microstructure Cathrine Hartung, Elkem Silicon Products</p>
<p>9:50 AM</p>	<p>Break</p>
<p>10:05 AM</p>	<p>Impact of Quenching and Aluminium On B2 Superstructure Formation In Solid Solution Strengthened Ferritic Ductile Cast Iron Betto David Joseph, Foundry Institute, RWTH Aachen University</p>
<p>10:45 AM</p>	<p>Primary Austenite Morphology and Tensile Strength in CGI for Different C Contents, Cooling Conditions and Nodularity Vasilios Fournalakidis, Department of Materials and Manufacturing - Jönköping University</p>
<p>11:25 AM</p>	<p>Dendritic Austenite in Compacted and Spheroidal Graphite Iron Björn Domeij, Department of Materials and Manufacturing - Jönköping University</p>
<p>12:05 PM</p>	<p>Lunch</p>
<p>1:15 PM</p>	<p>CGI Global Update Steve Dawson, SinterCast</p>

1:45 PM	<p>Thermal Analysis of Ductile Iron - A New Way to Predict the Mechanical Properties J. Schüssler, RWTH Aachen University</p>
2:25 PM	<p>HOW WELL CONTROLLED IS YOUR FOUNDRY PROCESS? Rebecca Ward, Impact NDT, LLC</p>
3:00 PM	<p>Break</p>
3:15 PM	<p>Informed Process Decisions to Improve Impacts Downstream through Simulation Konstantin Nikolov, Magma</p>
3:50 PM	<p>XRD-Analysis of the Correlation of Stacking Fault Formation and the TRIP-effect in ADI Felix Stieler, TU Clausthal</p>
4:30 PM	<p>Prediction of Cross-Section-Dependent ADI Microstructures by Experimental Heat Treatment Simulation Patrick Lachart, TU Clausthal</p>
5:10 PM	<p>General Session Adjourns</p>
6:30 PM	<p>Cocktail Hour</p>
7:30 PM	<p>Dinner Banquet</p>

FRIDAY, OCTOBER 20

8:00 AM	General Session Begins
8:00 AM	Inoculation effects on Mass Effect in Ferritic Spheroidal Graphite Iron Castings with Heavy Section S. Yamamoto, Daiwa Heavy Industry Co., Ltd, Hiroshima, Japan
8:40 AM	Shrinkage Investigation of Ductile Iron Casting Anhua Yu, Ward Manufacturing LLC
9:20 AM	Break
9:40 AM	Ductile iron fade sampling campaign Grede, J. Cree, Grede-New Castle
10:20 AM	Molten and Semi-Solid Gravity Die Casting in Ductile Iron Castings Itofuji, I2C Technology Institute
11:00AM	High Modulus Ductile Iron Alloy Design and Characterization Shane Anderson, Materials Technology
11:40 AM	Symposium Adjourns