



June 13, 2018

TO: Ductile Iron Society Members and Guests

FROM: James Wood, Executive/Technical Director

RE: 2018 6th Keith Millis Symposium on Ductile Iron

The 2018 6th Keith Millis Symposium on Ductile Iron will be held at the Sonesta Resort, 130 Shipyard Drive, Hilton Head Island, SC. The dates of the meeting are **October 23-26, 2018.**

MEETING AGENDA

Tuesday, October 23, 2018

(DIS Committee Members only)

8:00 AM	Research Committee Meeting (Salon A,B,C,D Room)
NOON	Registration Desk Opens (Prefunction A,E Area)
1:00 PM	University Relations Committee Meeting (Jasper Room)
1:00 PM	Program and Publications Committee Meeting (Berkeley Room)
1:00 PM	Ductile Iron Marketing Committee Meeting (Charleston Room)
1:00 PM	Member Services Committee Meeting (Dorchester Room)
3:00 PM	Directors Meeting (Dorchester Room)
3:00 PM	Metalcasting Forum Group (Salon A,B,C,D Room)

Wednesday, October 24, 2018

(Keith Millis Symposium)

6:30 AM	Breakfast (Salon A,B,C,D Room)
7:00 AM	Registration Desk Opens (Prefunction A,E Area)
8:00 AM	Technical Session Begins (Salon E,F,G,H)
12:00 PM	Group Luncheon (Salon A,B,C,D Room)
1:00 PM	Technical Session Resumes (Salon E,F,G,H Room)
5:00 PM	Technical Session Adjourns
6:00 PM	Reception (Beach Pavilion)(Everyone on their own for dinner)

Thursday, October 25, 2018

(Keith Millis Symposium)

6:30 AM	Breakfast (Salon A,B,C,D Room)
7:00 AM	Registration Desk Opens (Prefunction A,E Area)
8:00 AM	Technical Session Begins (Salon E,F,G,H Room)
12:00 PM	Group Luncheon (Salon A,B,C,D Room)
1:00 PM	Technical Session Resumes (Salon E,F,G,H Room)
5:00 PM	Technical Session Adjourns
6:30 PM	Reception (Prefunction A,E Area)
7:30 PM	Banquet (Salon A,B,C,D Room)

Friday, October 26, 2018

(Keith Millis Symposium)

6:30 AM	Breakfast (Salon A,B,C,D Room)
8:00 AM	Technical Session Begins (Salon E,F,G,H Room)
12:00 PM	Meeting Adjourns
	Box Lunch available at (Prefunction A,E, Area)

Wednesday, October 24, 2018

6:30 a.m.

Breakfast (Salon A,B,C,D)

7:00 a.m.

Registration (Prefunction A,E Area)

General Session (Salon E,F,G,H)

8:00 a.m.

Keynote Address: Cast Iron: We Just Need to Get Better at Telling Our Story

Dr. Steve Dawson, SinterCast

8:45 a.m.

Elkem Research on Solution Strengthened Ferritic Ductile Iron(SSFDI) Structure & Properties Using Different Treatment & Inoculation Materials

Cathrine Hartung - Elkem

9:30 a.m.

Break (Prefunction A,E, Area)

9:45 a.m.

Graphite Nucleation in Compacted Graphite Cast Iron

Gorka Alonso – Azterlan - Spain

10:30 a.m.

Current Applications of Carbide Austempered Ductile Iron (CADI) in the U.K.

Dr. Arron Rimmer – ADI Treatments – U.K.

11:15 a.m.

Designing Feeding Systems, Treatment and Good Foundry Practice for Ductile Iron

Elis Rivera – ASK Chemicals LP

12:00 p.m.

Lunch (Salon A,B,C,D)

1:00 p.m.

The Use of Manganese and Increased Nodule Count for the Production of ADI: A Preliminary Study

Angella Sell, Applied Process

1:45 p.m.

Automated Coating Control for the Production of Ductile & Compacted Graphite Iron Castings

Tim Birch – Foseco

2:30 p.m.

Engineering Non-Metallic Inclusions to Control Solidification of SGI Casting

Dr. Simon Lekakh, Missouri University of Science & Technology

3:15 p.m.

Break (Prefunction A,E Area)

3:30 p.m.

Solidification of Ductile and Compacted Irons, Macrostructure and Shrinkage Formation

Prof. Roberto Boeri – University Mar del Plata - Argentina

4:15 p.m.

A Team Approach to Reducing Scrap in Ductile Iron Castings

Tom Cobett, T. Cobett & Associates

5:00 p.m.

General Session Adjourns

6:00 p.m.

Reception (Beach Pavilion) Drinks and hors d'oeuvres will be served.

Thursday, October 25, 2018

6:30 a.m.

Breakfast (Salon A,B,C,D)

7:00 a.m.

Registration (Prefunction A,E Area)

General Session (Salon E,F,G,H)

8:00 a.m.

Modification of Silicon Microsegregation in Solid Solution Strengthened Ductile Iron by Alloying with Aluminum

Daniel Franzen – RWTH Aachen University – Germany

8:45 a.m.

Integrated System of Thermal/ Dimensional Analysis for Quality Control of Gray & Ductile Iron Castings Solidification

Iulian Riposan, University of Bucharest - Romania

9:30 a.m.

Break (Prefunction A,E, Area)

9:45 a.m.

Inoculation Solutions Against Metallurgical Problems

Aurelie Fay, FerroGlobe - France

10:30 a.m.

Microstructural Adjustment of the Degenerated Graphite Layer in Ductile Iron for Targeted Evaluation on the Fatigue Properties

Adalbert Kutz – RWTH Aachen University – Germany

11:15 a.m.

Detailed Investigation on the Measurement of Thermal Analysis

Lizeth Medina – Neenah Foundry

12:00 p.m.

Lunch (Salon A,B,C,D)

1:00 p.m.

Demystifying Shrinkage Porosity in Ductile Iron Castings

Al Alagarsamy – Consultant

1:45 p.m.

Why is Graphite Spherical in Ductile Iron? A Study of Elements in the Spheroidal Graphite Using Atom Probe Tomography and Transmission Electron Microscopy

JingJing Qing, Georgia Southern University

2:30 p.m.

DIS Research Project #57 - Heat Treatments to Develop High Strength Ferritic Ductile Iron

Richard Gundlach, Gundlach Consulting Svcs

3:15 p.m.

Break (Prefunction A,E Area)

3:30 p.m.

Front-End Ultrasonic Nodularity Determination Using Standard Coupons

Mike Robles, Jr., AAM-New Castle

4:15 p.m.

From Individual Graphite Assignment to an Improved Digital Image Analysis of Ductile Iron

Jessica Friess, RWTH Aachen University – Germany

5:00 p.m.

General Session Adjourns

6:30 p.m.

Reception (Prefunction A,E Area)

7:30 p.m.

Dinner Banquet (Salon A,B,C,D)

Friday, October 26, 2018

6:30 a.m.

Breakfast (Salon A,B,C,D)

General Session(Salon E,F,G,H)

8:00 a.m.

Growth of Spheroidal Graphite: Light Versus Scanning and Transmission Electron Microscopies

Jacques Lacaze – University of Toulouse – France

8:45 a.m.

Influence of Carbide Promoting Elements on the Microstructure of High Silicon Ductile Iron

Moritz Riebisch, RWTH Aachen University – Germany

9:30 a.m.

Break (Prefunction A,E Area)

9:45 a.m.

Best Practice Filter Application Techniques for Vertically Parted Molding Machines

Tony Midea, Foseco

10:30 a.m.

Continuous Casting of Ductile Iron - Thin-Walled Tubes *Simon Sun, H-Bar - China*

11:15 a.m.

Current Research in Mg Treated Cast Irons and Future Plans

Attila Dioszegi, Jonkoping University - Sweden

Noon

Symposium Adjourns - Box lunch available in Prefunction A,E area



HOTEL RESERVATIONS

Each member is responsible for making his or her own reservations at the Sonesta Resort hotel, 130 Shipyard Drive, Hilton Head Island, SC. **NOTE:** For hotel reservations call **1-843-842-2400**, use group **Ductile Iron Society** to assure the Group rate of **\$160 single/double**, or register online at

<https://gc.synxis.com/rez.aspx?Hotel=56762&Chain=5157&locale=en-US&arrive=10/22/2018&depart=10/26/2018&adult=1&child=0&group=1022DCTIRN>

The cut-off date for registration is October 1, 2018. There are NO discounts or free registrations for this mtg.

DIS Member Fee if paying by check: \$575.00 or by credit card: \$595.00
Spouse Fee if paying by check: \$150.00 or by credit card: \$150.00
Non-Member Fee: \$695.00

**PLEASE RETURN THIS FORM IN ORDER TO HELP US WITH HEAD COUNTS FOR THE HOTEL MEAL GUARANTEES
(Or register and pay online at www.ductile.org) FAX: 614-275-4203**

DUCTILE IRON SOCIETY, 2802 FISHER ROAD, COLUMBUS, OH 43204

**THE FOLLOWING WILL ATTEND THE 2018 6th KEITH MILLIS SYMPOSIUM MEETING AT THE SONESTA RESORT
IN HILTON HEAD, SOUTH CAROLINA**

ATTENDEE NAME FEE	SPOUSE (If attending) FEE

SIGNED _____

COMPANY _____

NOTE: The Registration fee is waived for those who are presenting papers.

To Pay by Credit Card:



The DIS has the following registration cancellation policy:
Full refund up to 14 days in advance
50% refund from 14 to 3 days in advance
No refund within 3 days of meeting
\$50 extra on registrations at the door

Account Type: ☐ AMEX ☐ MasterCard ☐ Visa

Cardholder Name _____

Billing Zip Code _____

Account Number _____

Expiration Date _____

CVV2 (3 digit number on back of Visa/MC, 4 digits on front of AMEX) _____