



June 13, 2018

TO: Ductile Iron Society Members and Guests  
FROM: James Wood, Executive/Technical Director  
RE: 2018 6<sup>th</sup> Keith Millis Symposium on Ductile Iron

The 2018 6<sup>th</sup> 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(SSF DI) 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 Carbidic 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 Metal-lurgical 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**  
AI 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](http://www.ductile.org)) FAX: 614-275-4203**

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

**THE FOLLOWING WILL ATTEND THE 2018 6<sup>th</sup> 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) \_\_\_\_\_