

# STEEL FOUNDERS' SOCIETY OF AMERICA

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www.sfsa.org



September 6, 2011

## MEMORANDUM

TO: ALL SFSA MEMBERS  
SUBJECT: 2011 65<sup>TH</sup> NATIONAL  
TECHNICAL & OPERATING CONFERENCE

We take great pleasure in inviting you and your technical personnel to attend the 65<sup>th</sup> Annual Technical and Operating Conference on December 8-10, 2011. Your T&O Committee is presenting a solid program of practical papers relating to most operating areas of your plant and operating issues.

We have attached a copy of the programs for the National Technical and Operating Conference and the Workshop. The program brings the most comprehensive review of SFSA members' experiences and the most up to date reviews of the research program. The program reflects the considerable effort by the T&O Committee and the members who are willing to share their experiences. We are confident that you will find this program to be of great value to you and your company. We look forward to seeing you in Chicago in December.

The Conference will be held at the Drake Hotel located on Michigan Avenue in downtown Chicago and the format will be the Thursday, Friday and half-day Saturday. A Members' T&O Workshop has been scheduled on Wednesday afternoon, December 8, prior to the Conference.

The Conference registration fees are \$900 for all three days including the Workshop or \$830 for the Conference excluding the Workshop. However if you register and pay for the Conference by October 31, these prices are reduced to \$830 and \$780 respectively. Should you wish to register for single days the fee is \$365 (\$335 if paid by October 31) per day on Thursday and Friday, \$300 (\$265 if paid by October 31) for Saturday only or for the Workshop. The Conference fee also includes a USB drive containing the proceedings. To register for the Conference please use the enclosed form, note and observe the attached cancellation policy.

Also, please make sure to make your hotel reservations before November 7. **The hotel must receive them no later than November 7 to guarantee accommodations and the special rate.**

After reviewing the program we are certain that you will want your foundry to attend this Conference given for and by the steel casting industry. We look forward to your participation in December.

Kind regards,

A handwritten signature in black ink that reads "Malcolm Blair". The signature is fluid and cursive.

Malcolm Blair  
Vice President - Technology

# Steel Founders' Society of America

National T&O Conference – December 8-10 2011  
Drake Hotel, Chicago, IL

## Session 1 Thursday Morning – December 8

- Value of OSHA Voluntary Protection Program (VPP)
  - Management Perspective  
*Scott Buterbaugh, McConway & Torley*
- Forklift and Shock Watch System  
*Tommy Thomas, American Foundry Group*
- Zero Emission AOD  
*Micah Cary, Bradken (Tacoma)*
- Is my Dust Combustible? – A Case Study  
*Paul Arneson, MetalTek*
- Lessons Learned: Hiring and Retention  
*Lisa Velez, Eagle Alloy*
- Health Care Reform Act  
*March Schmucker, Bradken (Atchison)*
- Improving the Visual Inspection Process  
*Rick Stone, Kris Watts, Alex Clemons, Frank Peters, Iowa State University*

## Industry Luncheon

## Session 2 Thursday Afternoon – December 8

- Computerized Maintenance Management Systems  
*Justin Olesen, Billy Newman, Spokane Industries*
- Upgrading Foundry Control Software System  
*James Lee, American Foundry Group*
- Comparison of Large Insulating and Exothermic Riser Sleeves  
*Jorge H. Okhuysen V., Corporação POK*
- Riser Sleeves  
*Tyler Schneiter, Harrison Steel Castings Company*
- Attachment of Vacuform Insulator  
*Jorge H. Okhuysen V., Corporação POK*
- Sugar Investment Castings  
*Jorge Okhuysen, Corporação POK*
- The Efficacy of Ceramic Sand on Burn-In Defects in Heavy Section Castings  
*Tim Mohs, Sivyer Steel Corporation*
- Modern Sodium Silicate Technology  
*Jime DeVenne, J.B. DeVenne*

## Discussion Session

## Industry Reception

This is a preliminary program subject to change

- SFSA Member or staff
- Researcher or industry consultant

### Session 3

### Friday Morning – December 9

- Ceramic/Zircon Mold Wash  
*Guillermo “Willy” Oyarzabal, Fimex*
- Ceramic Cores in Steel Castings  
*Paul Strahm, Pacific Steel Casting Company*
- Printed Molds and Cores  
*Zed Howell, Howell Foundry*
- Hydraulic Mold Clamping System  
*Bill Reinsel, Andritz Durametal*
- Effect of Calcium Injection with Argon Stirring on High Carbon Steel  
*Andy Miko, Antonio Melendez, Spokane Industries*
- Reducing Tap Temperatures to Minimize Energy Use in Melting  
*Kent Peaslee, Siddhartha Biswas, Simon Lekakh,  
Missouri University of Science & Technology*
- Sponge: A Root Cause Defect Analysis  
*Tim Nitz, Harrison Steel Castings Company*
- Evaluating Chemistry and Cleanliness of Steel in the Ladle  
*John Pischak, Harrison Steel Castings Company*

### Industry Luncheon

### Session 4

### Friday Afternoon – December 9

- Metal Reclaim; Waste Stream Reduction  
*Greg Kramer, ME Elecmetal*
- Improved Methods Applied to Heat Treatment  
*Michael Asbury, Matrix Metals*
- AMS 2750  
*Steve Grief, Wollaston Alloys*
- Heat Treating Stainless Steel Castings for Optimized Corrosion Resistance and Mechanical Properties  
*John DuPont, Andrew Stockdale, Lehigh University*
- Corrosion Testing for Lot Acceptance: Status of Current Test Methods and Where Do We Go from Here?  
*Ron Bird, Stainless Foundry & Engineering*
- Weldability of Heat-Resisting Alloys  
*Jerry Gapinski, MetalTek*
- Casting Simulation in the Small Job Shop  
*Mike May, May Foundry*
- Experiences with Customers New to Steel Castings  
*Tom Kasee, Peter Stauersbol, Sawbrook Steel Castings Company*

### Discussion Session

## Session 5

## Saturday Morning – December 10

- Lower Carbon Content High Strength Cast Steels  
*Paul Lynch, Rachel Abrahams, Robert Voigt, Pennsylvania State University*
- Development of High Strength (200ksi) Cast Steel Alloys  
*Kent Peaslee, Andrew O'Laughlin, Missouri University of Science & Technology*
- Effect of Co Addition on the Structure and Mechanical Properties of 17-4 PH  
*Von Richards, Arpana Murthy, Simon Lekakh, David Van Aken, Missouri University of Science & Technology*
- Measurement and Prediction of Mechanical Behavior of Cast Steel Plates with Centerline Porosity  
*Richard Hardin and Christoph Beckermann*
- Measurement and Prediction of Stresses During Casting of a Steel Bar  
*D. Galles and Christoph Beckermann*
- Measurement of Gas Evolution from PUNB Bonded Sand as a Function of Temperature  
*G. Samuels and Christoph Beckermann*
- Verification of New Radiographic Testing (RT) Standard through Mechanical Testing  
*Jeff Hamby, John Griffin, Robin Griffin, University of Alabama - Birmingham*
- Hardness Testing  
*Malcolm Blair, SFSA*

## Adjourn

**Thank you for attending the 2011 National Technical and Operating Conference**

# T & O Workshop

STEEL FOUNDERS' SOCIETY OF AMERICA

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## National T&O Workshop Program - 12.07.10

**2:00 PM to 6:00 PM**

The Workshop program will consist of presentations on Visual Inspection, Corrosion testing, tension testing and Lean Manufacturing.

### **Matching Familiar Figures Test** – Frank Peters, Iowa State University

Dr. Peters and his team will conduct a hands-on visual inspection exercise. You can find out which category you fall into – Fast Accurate, Slow Inaccurate, Impulsive, or Contemplative. This is a tool you may use to select candidates for visual inspection positions.

### **Fog Chamber for Corrosion Testing** – John Griffin, University of Alabama

The students at UAB will describe how they made a salt water fog chamber for corrosion testing of stainless steels.

### **Mechanical Tension Testing** – John Griffin, University of Alabama

If you are required to certify tension tests to the metric system, you need to convert the elongation method using 4d to 5d gage lengths. This work shows how this might be done through the development of a conversion factor rather than using a special extensometer.

### **Lean Transformation at Sivyer Steel** – Brian Carroll, [leancommerce.org](http://leancommerce.org)

This presentation will feature a case study, which illustrates the management tasks required to conduct a company-wide Lean Transformation at an SFSA-member company.

REGISTRATION  
 65th TECHNICAL AND OPERATING CONFERENCE & WORKSHOP  
 December 7-10, 2011  
 THE DRAKE HOTEL - CHICAGO, IL

Please register the following individuals for the 65th Technical & Operating Conference:

Company _____
Address _____
City, State, Zip _____

Please print or type

	<u>First Name</u>	<u>Last Name</u>	<u>Full Conference Including Workshop</u>	<u>Full Conference Excluding Workshop</u>	<u>or choose Individual days</u>				<u>Printed book*</u>
					<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	
1.	_____	_____	_____	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____	_____	_____

<u>Conference Fees**</u>		<u>Registration if paid in full by Oct. 31</u>	<u>Registration if paid in full after Oct. 31</u>			
Full Conference Registration (3 days including Workshop)	_____ person(s)	@ \$830	@ \$900	=	\$	_____
Full Conference Registration (3 days excluding Workshop)	_____ person(s)	@ \$780	@ \$830	=	\$	_____
Workshop (Wednesday)	_____ person(s)	@ \$265	@ \$300	=	\$	_____
Day 1 (Thursday)	_____ person(s)	@ \$335	@ \$365	=	\$	_____
Day 2 (Friday)	_____ person(s)	@ \$335	@ \$365	=	\$	_____
Day 3 (Saturday)	_____ person(s)	@ \$265	@ \$300	=	\$	_____
Proceedings book*	_____ book(s)	@ \$275	Not available after Oct. 31	=	\$	_____
		TOTAL			\$	_____**

**PLEASE SEND PAYMENT OR CREDIT CARD INFORMATION WITH REGISTRATIONS**  
**REGISTRATIONS WILL NOT BE PROCESSED UNTIL PAYMENT IS RECEIVED**

Amex-Visa-M/C No. \_\_\_\_\_ Exp. \_\_\_\_\_ CVV2 \_\_\_\_\_

Signature for Credit Card Payment \_\_\_\_\_

**PLEASE MAKE HOTEL RESERVATIONS BEFORE NOVEMBER 7, 2011**

Return form to: T&O Conference Registrations      FAX: 815 455-8241  
 Steel Founders' Society of America  
 780 McArdle Dr Unit G  
 Crystal Lake, IL 60014-8155, USA

\* Not included with registration. Registration includes Conference Proceedings on a USB flash drive, along with the Conference Program.

\*\* SFSA will adjust your registration fees if they have been calculated incorrectly due to late registration or math error.

Reservations  
The Drake Hotel  
140 East Walton Place  
Chicago, IL 60611-1501  
Fax: 312 787-1431

<http://www.thedrakehotel.com>

Phone: 800 553-7253 or 312 787-2200

Please make the following reservations: Arrive Depart

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Room preference: King Bed \_\_\_\_\_ 2 Beds \_\_\_\_\_ Smoking? \_\_\_\_\_

Number of persons sharing room: \_\_\_\_\_

Method of Guarantee:

Amer. Express \_\_\_\_\_ MasterCard \_\_\_\_\_ Visa \_\_\_\_\_ Other \_\_\_\_\_

Check or Money Order \_\_\_\_\_

Credit Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Phone \_\_\_\_\_

Please note that reservations must be guaranteed by credit card or one night's deposit. Cancellation policy is three (3) working days prior to arrival to avoid loss of first night's deposit.

Steel Founders' Society of America – December 7-10, 2011

Single:	\$205.00	Double	\$205.00	Triple:	\$245.00
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**Cut off date: November 7, 2011**

Reservations requested beyond the cut-off date are subject to availability and higher rates. Please note all rates are subject to applicable taxes. Upon receipt, a confirmation will be forwarded to you. Departure date will be reconfirmed at check-in. Early departures are subject to an administrative fee. Please fax your reservation request as shown above. Thank you.

# STEEL FOUNDERS' SOCIETY OF AMERICA

## Meetings Registration Cancellation Policy

For Cancellations Received...

More than 10 Business Days Prior	(November 23)	NO PENALTY
8 or 9 Business Days Prior	(November 25)	50% OF FEE
7 or Less Business Days Prior	(November 28)	100% OF FEE

SUBSTITUTIONS PERMITTED AT ANY TIME.

**Make your hotel reservations early to ensure room availability!**

**Hotel reservations *must* be made before November 7, 2011.**

The Drake Hotel as well as all other hotels in the city will once again be busy at this time due to many conventions. There may be a problem with price and availability after this date.

We urge you to make your room reservations early.