

Bonus: Green Session on Energy Efficiency

Early registration includes plant tour of Honda.

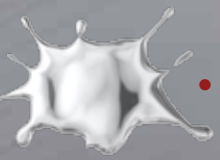
ALUMINUM MELTING

October 10-12, 2011 • Dayton Grand Hotel • Dayton, OH **CONFERENCE**

This conference covers every facet of aluminum melting—from melt quality to furnaces to energy efficiency.

Hot Topics Will Include:

- Effect of Melting and Melt Treatment on Casting Quality
- Fundamentals of Heat Transfer in Metal Melting
- Hydrogen Gas Measurement & Removal
- Refractory & Crucibles



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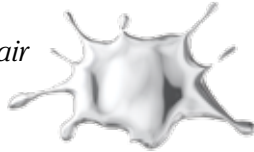


Tentative Agenda

This conference will cover everything related to melting aluminum alloys, from the melting furnaces to the melt quality. Topics will include molten metal treatment, controlling oxides and inclusions, melt loss, in furnace filtration, refractories and molten metal interactions, crucibles care, molten-metal transfer, melting efficiency, and energy conservation and melt safety.

Monday, October 10, 2011

- 9:30 a.m. Registration
- 10:00 a.m. Welcome
Mark Osborne, Conference Chair
- 10:15 a.m. Foundry Melting Safety
Jake Niedling, Alcoa
- 11:15 p.m. Best Practices for Molten Aluminum Transfer
Randall Oehrlein, Carley Foundry
John Hall, CMH Manufacturing
- 12:15 p.m. Lunch
- 1:15 p.m. Molten Metal Cleanliness
- The Merits of In-Furnace Filtration
David Neff, Neff Technologies
 - Effect of Melting and Melt Treatment on Casting Quality
Geoffrey Sigworth, Foseco
 - Hydrogen Gas Control and Removal
Brian Began, Foseco
- 2:15 p.m. Break
- 2:45 p.m. Heat Transfer
- Fundamentals of Heat Transfer in Metal Melting Technology
Ed Eckert, Apogee Technology
- 3:45 p.m. Melt Process Control & Equipment
- Energy Melt Loss and Assessments
 - Energy Management
 - AFS Aluminum Melting Survey Discussion
 - Case Studies in Melting: What Others Have Done
- 4:30 p.m. Dismiss



- 11:45 a.m. Lunch & Exhibits
- 1:00 p.m. Burner Efficiencies
- High Efficiency Burners for Melting Aluminum
Dave Toocheck, Bloom Engineering
 - Combustion Systems for Reduced Energy Consumption
Clive Lucas, Fives North American
- 2:00 p.m. Break
- 2:15 p.m. Refractories Basics
- Refractory Selection and Molten Metal Interactions
Tim Hoyt, Allied Mineral
- 3:15 p.m. Refractories and Crucibles
- Refractory Maintenance
David White, David Nelson, Schaefer Furnaces
 - Crucible Care, *Ted Kostilnik, Morgan Molten Metal Systems*
- 4:15 p.m. Reception & Exhibits



Wednesday, October 12, 2011

- 8:30 a.m. Managing and Minimizing Melt Loss During Melting
David Neff, Neff Technologies
Dick Schaefer, Schaefer Furnaces
Dan Groteke, Q C Designs
Martin Reeves, Striko Dynarad
- 10:00 a.m. Break
- 10:15 a.m. Regulatory Issues for Aluminum Melting
- The Hazards of and Regulations for Handling Aluminum Dross
Brian Cochran, Brian P. Cochran & Associates
- 11:15 a.m. Lunch
- 11:45 a.m. Depart for Honda
- 1:00 p.m. Tour: Honda Anna Engine Plant 3 Aluminum Diecasting (*Space is Limited. Early Registration Recommended*)
- 3:00 p.m. Depart Honda
- 4:00 p.m. Return to Conference Center/ Conference Concludes

Tuesday, October 11, 2011

Green Session: Workshop on Melting Energy Efficiency

- 8:30 a.m.
- Benchmarking Energy Use in Melting
David Neff, Neff Technologies
David Schwam, Case Western Reserve University
- 9:00 a.m.
- High Efficiency Reverberatory Furnaces
Dick Schaefer, Schaefer Furnaces
- 9:30 a.m.
- Flexible, Energy Efficient Melting Systems
Ed Eckert, Apogee Technology
- 10:00 a.m. Break
- 10:15 a.m.
- Advanced Stack Furnaces
Martin Reeves, Striko Dynarad
- 10:45 a.m.
- High Efficiency Crucible Melting
Ted Kostilnik, Morgan Molten Metal Systems
- 11:15 a.m.
- Melting System Design
Rafael Gallo, Molten Metal Equipment Innovations



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ALUMINUM MELTING CONFERENCE

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Return Form To:

American Foundry Society
35169 Eagle Way, Chicago, IL 60678-1351
Tel: 800/537-4237 Fax: 847/824-7848

Hotel: Registrants should make hotel reservations directly with the Dayton Grand Hotel, 11 South Ludlow, Dayton, OH 45402. Registrations must be made over the phone. Call 937/461-4700 and reference our group code AFS to receive group rates.

Room Reservation Cut-Off Date: 9/18/11. Our special group rate is \$99.00/night. You must mention you are with the American Foundry Society group to receive this rate. Reservations made after the cut-off will be confirmed on a space available basis, possibly at a higher rate.

Cancellations and Substitutions: Substitutions will be accepted at any time. Cancellations of confirmed registrants with full refund of fees cannot be accepted unless received two weeks prior to the conference date. In the unlikely event the conference is canceled for any reason, AFS liability is limited to the return of the registration fee.

Tax Deduction of Expenses: An income tax deduction is allowed for expenses of education, including registration fee, travel, meals and lodging, undertaken to maintain and improve professional skills (see U.S. Treasury Regulation 1:162.5).

Registration Fees

AFS Member \$595 • Non-AFS Member \$695

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Phone _____ Fax _____

E-mail _____ AFS Membership# _____

Payment: American Express MasterCard VISA Check enclosed

Card Number _____

Expiration Date _____

Authorized Signature _____

I am interested in taking the Honda Anna Engine Plant Tour. (Space is limited to the first 40 registrants) (Check one)
Yes No



American Foundry Society, Inc.

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