



Wisconsin Chapter American Foundry Society

The Wisconsin Chapter of the American Foundry Society, in cooperation with the AFS Stateline and Northeast Chapters invite you to attend our:

**74th ANNUAL REGIONAL FOUNDRY CONFERENCE AND EXPOSITION
THURSDAY, MARCH 1 & FRIDAY, MARCH 2, 2012
AT OLYMPIA RESORT, CONFERENCE CENTER AND SPA, OCONOMOWOC, WISCONSIN**

The Wisconsin Chapter of the American Foundry Society promotes the education of our members and provides the opportunity for exchange of ideas amongst its members and other related industries. The foundry industry must always look for improvements to meet the many challenges we face, including rising energy costs, diminishing raw material availability, tougher environmental regulations, health and safety costs, etc.

We invite you to attend the 2012 Regional Foundry Conference and Expo. We have assembled a technical program that will address the many topics important to the foundry industry today presented by speakers with hands on knowledge. This year, on Thursday morning, we offer a condensed version of the Cast Metals Institute Course, **Introduction to Metalcasting**. This course is great for newcomers to the industry and those looking to further their knowledge of the foundry industry. This session will be run by members of the Cast Metals Institute Staff as well as Leo Baran of AFS National. It is a great opportunity and value for all. There is no additional cost to attend this session, as it is part of our Technical Session Badge.

The Expo showcases several exhibitors, and will be open all day Thursday and all Friday morning. On Thursday, March 1st, we will offer a **“Lunch with the Vendors”**, as we serve a buffet lunch in the Expo Hall giving you the opportunity to network with the exhibitors and colleagues of the foundry industry. After an entire day of several technical sessions covering an extensive array of topics, and viewing the expo, we invite you to attend the Regional Conference Banquet and Awards Dinner. This dinner will feature Mr. Brett Healy, President of The John Maclver Institute for Public Policy, and his talk, **“The State of Wisconsin . On the Right Track or Heading for Fiscal Meltdown?”** On Friday, March 2nd, we invite you to join us for **“Breakfast with the Vendors”**, a buffet breakfast served in the Expo Hall, again giving you additional time to network, followed by an entire morning of technical sessions and additional time to view the expo.

Advanced purchase ticket pricing is as follows:

AFS MEMBER PRICING

\$75.00 . Technical Session/Exposition Badge Only

\$25.00 . Thursday Lunch Only

\$35.00 . Thursday Dinner Only

\$20.00 . Friday Breakfast Only

BEST VALUE

\$135.00 . Full Conference Book
(Includes Technical Session/Exposition Badge and all meals)
(\$20.00 savings)

Non-member pricing - \$95.00 – Technical Session/Exposition Badge Only

\$155.00 – Full Conference Book

Meal pricing remains the same

At the door ticket purchase will be available:

\$85.00 for Members/\$105.00 for Non-members – Technical Sessions/Exposition Badge Only

\$155.00 for Members/\$175.00 for Non-members – Full Conference Book

Meal pricing remains the same

To register, please fill out the attached registration form and return it to:

Wisconsin Chapter . AFS
c/o Michelle Anfinson
Woodland/Alloy Casting, Inc.
PO Box 085866
Racine, WI 53408-5866

Or via email: michellea@woodland-alloy.com or via fax (262) 637-0871

For your convenience, we accept payment via check or credit card (VISA, MASTERCARD, or AMERICAN EXPRESS)

Hotel Room Reservations - Please take advantage of the reduced nightly room rates for attendees and vendors starting at \$109/night. Please call Olympia directly at 800-558-9573 by January 29, 2012, be sure to mention American Foundry Society when making reservations to receive the discounted rate. Olympia Resort, Conference Center and Spa also offers plenty of free parking and free internet service

We, along with our associate chapters, AFS-Northeast Chapter and AFS-Stateline Chapter, look forward to welcoming you to this year's Foundry Conference and Exposition.

If you have any questions, please do not hesitate to contact Michelle Anfinson at (262) 637-6754 or michellea@woodland-alloy.com.

Sincerely,
WISCONSIN CHAPTER - AFS

AnneMarie Schmidt
Vice President - Regional Chairman

Enclosure

74th Annual Wisconsin Regional Foundry Conference and Exposition

THURSDAY, MARCH 1, 2012 – SESSION I

8:00 – 9:30 am

“AFS National Committee Update: Energy/Government Affairs/Safety”

Speakers:

Jerry Call . National AFS Committee Activities Update
Robert Eppich . Energy; ~~It's~~ Your Choice . Either Waste It or
Conserve It!+

Stephanie Salmon . Government Affairs . The Washington
Outlook: Metalcasting Industry Faced
with Host of Costly New Regulations+

Ted Schorn . Safety . AFS National Committee Update

Jerry Call, AFS Executive Vice President, AFS National will update the activities of AFS National Committees.

Robert Eppich, Eppich Technologies/WI Focus on Energy, will be giving a presentation that will emphasize energy saving resources and case studies that illustrate where one can find the energy savings.

Stephanie Salmon, Vice President of Government Affairs, AFS National, will provide insights into the latest legislative and regulatory issues affecting the foundry industry.

Ted Schorn, Vice President, Enkei American, Inc., will be presenting a description of the safety efforts of the Society and the current status, as well as describe the fundamental truths that undergird the improvement effort.

Chair: Jerry Call
Co-Chair: John Lewensky

9:45 – 10:45 am

“What’s Happening With the Sand Supply?”

Sara Joyce – Badger Mining Corporation

Sara Joyce, Vice President, Quality & Technical Assurance, Badger Mining Corporation, will give a presentation with regard to the increase for the demand for sand in both the foundry and hydraulic fracturing markets. The talk will explain hydraulic fracturing, horizontal fracturing in shale and the effect on sand marketing.

Chair: John Serra

11:00 am – 12:00 pm

“Leadership’s Role in Safety – Creating the Want”

Jim Lehrke – Safety Connections, Inc.

Jim Lehrke, Owner/CEO, Safety Connections, Inc., will present a program focusing on the need to motivate and train employees to get the results a business wants. Management is the key to a business success. Management must know how and when to prioritize productivity, quality and safety. Critical today is that everyone needs to understand Management is a key to getting those results, and they must have the know-how to help employees do their job right, on time, and safely. This program focuses on how to create the want of employees to get the results you want. Jim will share his first hand experiences.

Chair: Jim Bettinghaus
Co-Chair: George Forish

9:00 am – 12:00 pm

Cast Metals Institute Overview Course - Introduction to Metalcasting Alloys

Metalcasting Processes
Alloys
Furnaces
Cleaning & Finishing

Kevin Fleischmann, CMI
Scott Lammers, AFS
Steve Robison, AFS
Leo Baran, AFS

Kevin Fleischmann, Cast Metals Institute, Scott Lammers, American Foundry Society, Steve Robison, American Foundry Society and Leo Baran, American Foundry Society, will be giving a condensed version of the Cast Metals Institute’s *Introduction to Metalcasting Alloys* Course to include an emphasis on the metalcasting processes, alloys, furnaces, and cleaning and finishing.

Chair : Annemarie Schmidt

12:00 – 1:30 pm - Lunch with Vendors in Expo Hall (Lunch Ticket Required)

74th Annual Wisconsin Regional Foundry Conference and Exposition

SESSION II - THURSDAY, MARCH 1, 2012 - 2:00 – 3:15 pm

Cast Iron/Steel – Combined Session

“Wet Sand Reclamation”

**Jim Furness – Furness-Newburge
Bob Karrels – Neenah Foundry Company
Joe Giese – Neenah Foundry Company**

Jim Furness, President, Furness-Newburge, Bob Karrels, Senior Project Engineer, Neenah Foundry Company, and Joe Giese, Project Engineer, Neenah Foundry Company, will discuss the wet sand reclamation project at Neenah Foundry, Plant 2, on their BMD Molding Line.

Chair: Frank Headington
Co-Chair: Carlos Leon

Non Ferrous – Aluminum

“Environmentally Green High Pressure Die Casting Alloys”

Dr. Raymond J. Donahue – Mercury Marine

Dr. Raymond J. Donahue, Fellow – Mercury Marine, division of Brunswick Corp, will present a paper describing a new die cast alloy technology that relies on strontium instead of iron for die soldering resistance and provides specific compositions that can replace all current conventional die cast alloys. These alloys are recyclable with sand cast and permanent mold cast alloys and are thus environmentally green and capable of decreasing the carbon footprint of the die cast industry.

Chair: Eric Lovejoy
Co-Chair: TJ Adams

Environmental

“Technology & Process Advancements for Pollution Prevention & Control”

**Jeff Krause – HA International
Anne Minga – J Carpenter Environmental**

Jeff Krause, Director, EH&S for HA International and Chair, AFS 4N Committee, will review the issues influencing changes to foundry binder formulations and the specific approaches binder manufacturers are taking to respond to those influences. Included are specifics regarding several of the larger-volume binder technologies, as well as a review of domestic and European trends regarding adoption of inorganic binders for no bake and cold box applications. Attendees should leave with a good understanding of options they have to reduce emissions by selecting alternative binder formulations.

Anne Minga, J Carpenter Environmental LLC, will review the advancements in pollution control technologies and equipment for air pollution control, sand reclamation and beneficial reuse of sands, best maintenance practices and monitoring equipment.

Chair: George Forish

74th Annual Wisconsin Regional Foundry Conference and Exposition

SESSION III - THURSDAY, MARCH 1, 2012 - 3:30 – 4:45 pm

Cast Iron

“Innovations of Medium Frequency Induction Melting”

Charles H. Fink, Jr. - Inductotherm

Charles H. Fink, Jr., Vice President Sale North America, Inductotherm Corporation, will cover the history of medium frequency melting from its beginning to the present day technology. The research and development of higher power rated components and rugged furnaces lead the way to designing and building today's medium frequency batch melting systems. This technology couples with computer control systems provide the foundry with more powerful induction furnaces to boost melt shop automation.

Chair: John Lewensky

Co-Chair: Carlos Leon

Steel

“Hardness Testing of Steel Castings”

Malcolm Blair-SFSA

Malcolm Blair, Vice President Technology, SFSA, will give a description of the types of equipment available, the ASTM standards that apply to these pieces of equipment and problems experienced in hardness testing of steel castings.

Chair: George Hartay

Non Ferrous – Aluminum/Brass Combined Session

“Advanced Aluminum Alloys in the Foundry: New Chemistries, New Processes, New Composites”

David Weiss – ECK Industries, Inc.

David Weis, Vice President Sales/Engineering, Eck Industries, Inc., will speak of the number of developments in the aluminum casting technology that will be moving to production soon. Casting of certain wrought alloy chemistries have shown that it is possible to produce higher strength castings than is possible in the 200 series of casting alloys. Adding nano-reinforcements can increase the strengths even further, while enhancing ductility. New ways to incorporate composites in many alloy systems will lead to higher performance at lower costs. High solidification rate processes will improve the performance of both these new alloys as well as conventional foundry alloys like A356.

Chair: Nick Gerrits

Co-Chair: Greg Payleitner

“Application of Biasill Staurolite for Green Sand in Non-Ferrous Foundries”

Victor LaFay–S&B Industrial Minerals

Charles Rowe – Carpenter Brothers

Jay Morrison – Carpenter Brothers

Victor LaFay, Manager of US Foundry Research, Global Operations, S & B Industrial Minerals, Charles Rowe, Technical Sales, Carpenter Brothers Inc / J Carpenter Environmental LLC, and Jay Morrison, Technical Sales Representative, Carpenter Brothers, Inc., will discuss Biasill Staurolite as an acceptable alternative for Olivine Sand for Non-Ferrous Sand Operations. It is not necessary to dispose of the existing molding sand containing Olivine because the Staurolite can be introduced incrementally while maintaining good casting quality. In order to maintain casting quality, changes in the green sand controls and bond formulations are recommended.

Chair: Roy Pickhard

Co-Chair: Nick Gerrits

REGIONAL CONFERENCE BANQUET AND AWARDS DINNER

5:30 – Cocktails, 6:00 – Dinner (Dinner Ticket Required)

Featured Dinner Speaker: Brett Healy, President, The John MacIver Institute for Public Policy
“The State of Wisconsin – On the Right Track or Heading for Fiscal Meltdown?”

74th Annual Wisconsin Regional Foundry Conference and Exposition

FRIDAY, MARCH 2, 2012

8:00 – 8:45 am
CONTINENTAL BREAKFAST WITH VENDORS (Breakfast Ticket Required)

SESSION IV - FRIDAY, MARCH 2, 2012 - 9:00 – 10:15 am

International Trade

“Outsourcing to China”

Beng Yeap – Wisconsin Economic Development Corporation
Terry Wendorff – Sno-Way International
Tom Gibson – Allied Minerals Products

Beng Yeap, International Business Manager, Wisconsin Economic Development Corporation, Terry Wendorff, President, Sno-Way International, and Tom Gibson, Corporate Vice President and President of China Operations, Allied Mineral Products, will give a panel discussion regarding the opportunities and challenges for Wisconsin companies doing business with China.

Chair : Adel Rahman

Cast Iron

Rudolf Perner Bell Foundry- Preserving a 400 Year Old Tradition+
Gregory Miskinis – ThyssenKrupp Waupaca Foundry

Gregory Miskinis, Director of Research and Process Development, ThyssenKrupp Waupaca Foundry, will discuss his visit to the firm Rudolf Perner GmbH & Co in Passau, Germany. The foundry, which in its current location rose from the rubble of World War II and is located a few hundred meters from the Donau River, practices the art of bell making. Rudolf Perner, once the youngest Master Bell Maker in Germany, carries on a 400 year family tradition of bell casting. Using the original clay and wax form techniques handed down through generations, Perner cast bells can be heard ringing in the Dom Cathedral in Munich and most recently in the Republic of China, proudly marking the containers made for China in an ironic twist of fortune.

Chair: Anne Marie Schmidt

Environmental

Keep Your Foundry Clean & Running . Combustible Dust & APC Maintenance+
Dick Pence–Industrial Ventilation Inc
Michael McCoy – GZA GeoEnvironmental

Dick Pence, Director of Sales, Industrial Ventilation Inc, will review industrial ventilation preventative maintenance practices, ventilation system testing, record keeping and energy savings.

Michael McCoy, CIH, CHMM, Project Manager/Toxicologist, GZA GeoEnvironmental, Inc, will provide a review of OSHA's National Emphasis Program (NEP) on Combustible Dust and discuss some of the basic concepts in managing combustible dusts associated with foundry operations.

Chair: Anne Minga
Co-Chair: George Forish

SESSION V - FRIDAY, MARCH 2, 2012 - 10:30 – 11:45 am

Cast Iron

Bi-Metal Process Development for Lightweight Engines+

George Kokos- Caterpillar

George Kokos, Senior Cast Technology Steward, Caterpillar, Inc., will discuss the AFS research sponsored by the Department of Defense, to take weight out of current military vehicles. The idea is to have grey cast iron where you need it for thermal properties and ductile iron where you need it for strength. This process will allow much thinner wall thicknesses thus reducing the weight of the engine. Experimentation was carried out at Missouri University of Science and Technology by Dr. Richards.

Low Alloy Version of Intercritical ADI+

Robin Foley – UAB

Robin Foley, Associate Professor, The University of Alabama at Birmingham, will give an overview of the AFS research on intercritical ADI. The effects of alloying level on properties and hardenability are being determined. Step wedge castings with thickness ranging from 0.75 to 4 inches were produced and austempered. Microstructural characteristics and tensile properties will be presented.

Chair: Tom Prucha
Co-Chair: John Lewensky

Steel

“Where Has All the Zircon Gone?”

Bill DeWood-REFCOTEC

Bill DeWood, President, REFCOTEC, will discuss zircon attributes and applications worldwide and how the foundry industry fits into the overall market. As well as, the use of zircon in foundry coatings and some alternative materials used in coatings, cores and molds. Finally, some of the most important things to know about the use and application of foundry coatings.

Chair: Doug Dearey

Energy Session

**Reducing Electrical Costs,
Maintaining Production: A True Story+**

Dick Winsemius - Powerit Solutions

Dick Winsemius, Foundry Corporate Advisor, Powerit Solutions, will discuss how during his tenure at Cannon-Muskegon as plant engineering manager, he addressed escalating energy use that resulted in painful peak demand charges. He researched and employed energy management technologies and implementation strategies to improve Cannon-Muskegon's bottom line without comprising production quality. This presentation will discuss demand charges, how to dissect an energy bill, the elements to consider in a successful solution, and review a range of savings results across a cross section of foundries.

Chair: Michelle Anfinson



74th Annual Wisconsin Regional Foundry Conference & Expo
 Thursday, March 1 & Friday, March 2, 2012
 Olympia Resort, Conference Center & Spa

CONFERENCE TICKETS & REGISTRATION FORM

Quantity	Item	Price	Total
	Full Conference Book . Member	\$135.00	
	Full Conference Book . Non-Member	\$155.00	
	Technical Session/Expo Badge Only . Member	\$75.00	
	Technical Session/Expo Badge Only . Non-Member	\$95.00	
	Thursday Lunch with Vendors+	\$25.00	
	Regional Conference Banquet Dinner	\$35.00	
	Friday Breakfast with Vendors+	\$20.00	
TOTAL DUE			

Payment Preference:

Check Enclosed Credit Card Payment (see below)

Credit Card Information: (VISA, MASTERCARD or AMERICAN EXPRESS)

Name on Card: _____

Card Number: _____

Expiration Date: _____ CVV # _____

Total to be charged: _____

Email: _____

Phone Number: _____

To help avoid registration delays during Conference hours, please include the names of the individual you are registering, along with the company name. **All tickets and badges will be held at the registration desk for pickup upon your arrival at the conference.**

Name	Company

Please return this form and payment to purchase tickets for the
 2012 WI Regional Foundry Conference and Expo

Wisconsin Chapter/AFS
 c/o Michelle Anfinson
 PO Box 085866
 Racine, WI 53408-5866

or via email: michellea@woodland-alloy.com, via fax (262) 637-0871

Any questions please do not hesitate to contact Michelle Anfinson at michellea@woodland-alloy.com or (262) 637-6754