

# WISCONSIN REGIONAL CONFERENCE & EXPO

PRESENTED BY THE WISCONSIN, STATELINE, AND NORTHEASTERN WISCONSIN AFS CHAPTERS



*"Make The Cut For Success"*

*The 79th Annual Wisconsin Regional*

*Foundry Conference & Exposition*

*Potawatomi Hotel & Casino*

*February 8-10, 2017*

The AFS Wisconsin Chapter is dedicated to serving its membership through educational, professional, and social activities designed to strengthen and promote the local metalcasting industry today and for the future.

# A Message From Rick Yrigoyen The Conference Chair



I would like to thank all members of the Regional Planning Committee including our Chapter President. Without their knowledge, experience and guidance, it would have been an impossible task to organize this year's spectacular event. Thanks again to my committee, and we hope all our members attending enjoy what we have planned for this year's Regional Conference. Wednesday the AFS Institute is offering half-day classes in the morning and

afternoon on industry subjects including Virtual Casting Process, Casting Material Properties, and a popular one is, Identifying the Correct Casting Defect. We have targeted multiple colleges to participate in the 4th annual invitational casting contest. The contest judges will be a panel of experienced professionals picked from our industry. Thursday afternoon in the expo center judges will be on stage with an open forum for questions and answers from the students. We have 16 technical sessions covering all facets of the industry.

These sessions should help with decisions to ***Make the Cut For Success.***

The Wisconsin Chapter holds the largest membership in the United States and also shares the state with other Chapters including the Northeast Wisconsin Chapter, Stateline Chapter and nearby Chicago Chapter. With such a large membership within a 100-mile radius, the Regional Planning Committee's direction has focused on making our Regional as educational and technical for our statewide members as possible. We hope that with our venue and program of events will benefit our members by attending.

Being involved as a part of the Regional Planning Committee is not like going to work every day and expecting monetary rewards for our efforts. This is about making efforts to help someone else with their future careers and strengthening what has rewarded us with our careers. The nice thing about this is that you meet great people along the way. Thanks again to the Regional Planning Committee that has helped me along my way. It's not about the destination it's about the journey.

## Regional Planning Committee

Chair: **Rick Yrigoyen**, Regional Sales Manager, *Foundry Products, Inc.* (AFS Wisconsin Chapter Vice President)

Co-Chair: **Carey Chapman**, Regional Sales Manager, *Unimin Corporation* (AFS Wisconsin Chapter Secretary)

**Cory Ashburn**, Account Executive - Central Region, *Foseco*

**Wayne Carr**, Operations Manager, *Olson Aluminum Castings*

**Jeff Cieplewski**, Vice President R&D, *Prince Minerals LLC*

**Jeff Cook**, Vice President Sales & Marketing, *Eagle Group* (AFS National President)

**Mike Cortez**, Project Engineer, *Precision Pattern Co., Inc.*

**George Forish Jr.** President, *Precision Pattern Co., Inc.* (AFS Wisconsin Chapter Treasurer)

**Gerry Fountaine**, Regional Sales Manager, *Fairmount Santrol*

**Nick Gerrits**, President, *Carpenter Brothers, Inc.*

**Gary Gigante**, Retired, *Waupaca Foundry*

**Dave Jablonski**, Retired, *Badger Mining Corporation*

**Mike Kamin**, Metallurgical Engineer/Technical Sales, *Carpenter Brothers, Inc.*

**John Lewensky**, Business Development Manager, *Farrar Corporation*

**Brian Lewis**, Executive Director, *Foundry Educational Foundation*

**Eric Lovejoy**, President, *Joy-Mark, Inc.*

**Chad Moder**, General Manager, *DePere Foundry* (AFS Northeastern Wisconsin Chapter Chair)

**Robert Peaslee**, President, *Manitowoc Grey Iron Foundry*

**Robert Puissant**, Senior Vice President, *Fuel Tech, Inc.*

**Adel Rahman**, Vice President of Operations, *Kuttner, N.A.*

**Doug Sawyer**, Vice President, *Universal Welding & Engineering, Inc.* (AFS Wisconsin Chapter President)

**Dave Weiss**, Vice President Engineering & R&D, *Eck Industries, Inc.*

***Thank you Regional Planning Committee members!***



## A Message from Carey Chapman the Conference Co-Chair



As Co-Chair of the 79th annual Wisconsin Regional, I would like to take this opportunity to thank you for your attendance and supporting this event. The Regional Planning Committee and respective AFS boards in the Wisconsin Chapters have cooperatively put together a program of events that everyone involved in the casting industry can find beneficial.

I am energized by the growth and increasing interest in the Casting Competition, and new generations entering this extraordinary industry. I hope everyone in attendance finds the event a rewarding experience

## A Message from Doug Sawyer the Wisconsin Chapter President



On behalf of the dynamic trio of Wisconsin-based AFS chapters, it is a great honor to welcome you to this 79th Annual Wisconsin Regional Foundry Conference and Exposition!

We are very pleased to be returning to Potawatomi Hotel & Casino. We had excellent feedback from last year's participants about the venue, the proximity to downtown Milwaukee and the variety of options for after-hours entertainment.

Whether you are participating as an exhibitor, speaker, casting contest student or attendee, be sure to take in the whole Wisconsin Regional experience. Contact the AFS Institute if you are interested in attending one or two of their Wednesday half-day courses. Walk the Expo Wednesday afternoon and be part of the Networking Reception with Exhibitors when we will have complimentary appetizers and beverages (a big hit last year). Join us bright and early on Thursday for the Kickoff Presentation by AFS National President, Jeff Cook. Map out your Thursday to take in the many technical sessions and return again and again to the Expo to continue your networking and inquiry into exhibitor offerings. Enjoy lunch in the exhibit hall on Thursday. Take the time to engage with future metalcasters who are competing in the expanded Wisconsin Regional Invitational Casting Competition.

Purchase your Thursday Dinner Banquet tickets in advance and enjoy the outstanding meal in the Woodlands Ballroom where we will recognize scholarship and casting contest winners and hear from Keynote Speaker, Tom Riordan, President and CEO of Neenah Enterprises. Later Thursday night we have reserved the Serenity Room (with cash bar) to provide a space for conference attendees to unwind among foundry professionals.

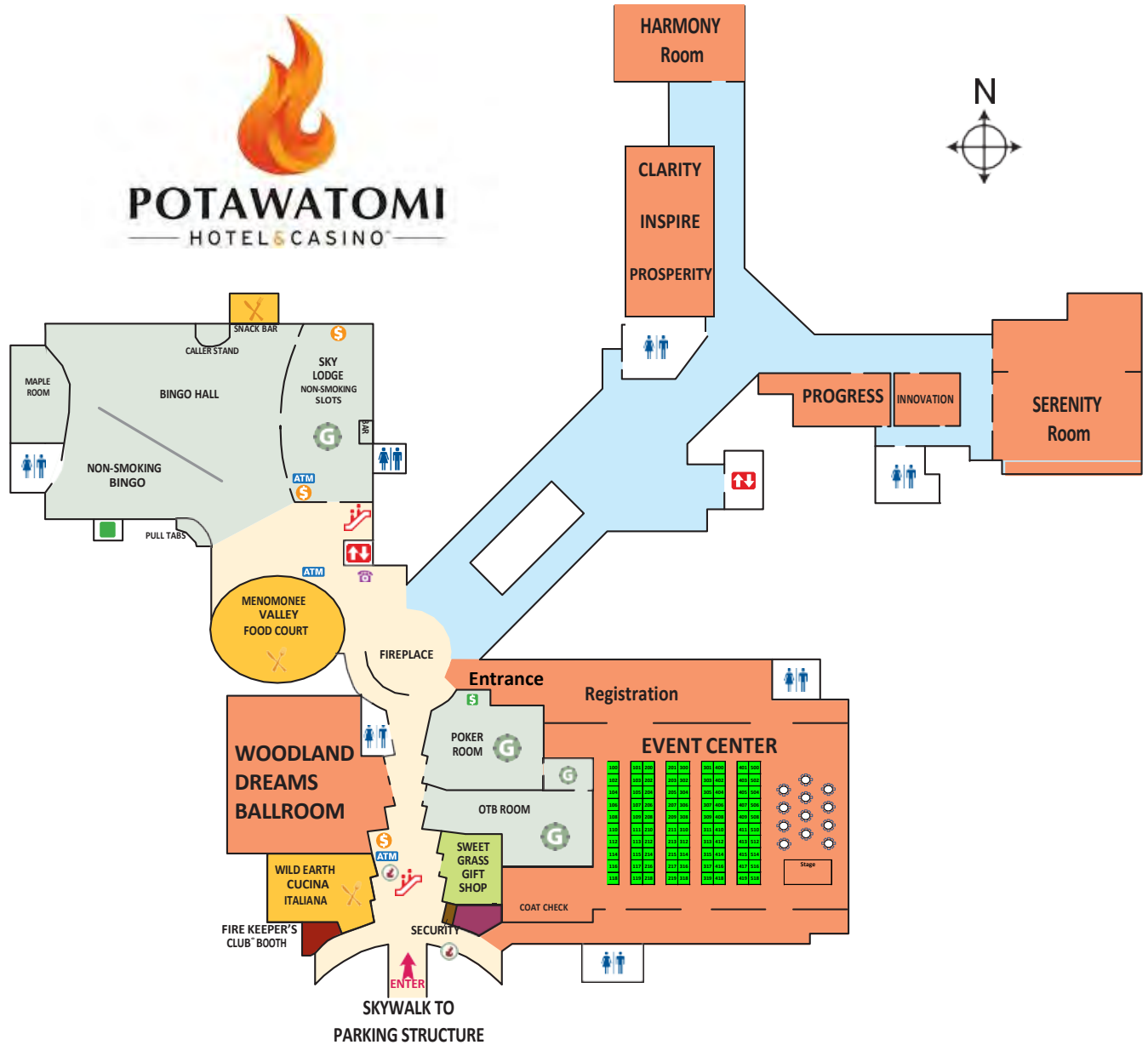
On Friday, finish off your Wisconsin Regional experience by joining us for hot breakfast in the Harmony Room and take in one of the morning Technical Sessions.

79 consecutive years of anything is quite amazing. We're glad you are here to "make the cut for success" at this Wisconsin Regional.

D. Doug Sawyer  
President – AFS Wisconsin Chapter  
Vice President – Universal Welding & Engineering, Inc.



# Regional Conference Information



## Conference Information

**Badges** are required to enter the Expo and Technical Session rooms.

**The Expo** is located in the Event Center.

**Kickoff Presentation** will be at the Event Center Stage.

**Technical Sessions** are held in the following rooms: Progress, Prosperity, Inspire, Clarity.

**Thursday Lunch** will be served in the Event Center (lunch ticket required).


**Keynote Awards / Dinner Banquet** will be held in the Woodland Dreams Ballroom (dinner ticket required)

**After Hours Cash Bar** will be in the Serenity Room from 8pm-to-Midnight Wednesday and Thursday.

**Evaluation Forms** provide useful information for planning the Regional. Please provide us with your feedback.

# Regional Conference Agenda

## Wednesday, February 8, 2017

- 10:30a - 6:00p Registration Open (Event Center Lobby)  
1:30p - 6:00p EXPO Open (Event Center)  
3:00p - 6:00p Networking Reception with Exhibitors (Event Center Stage)  
(Tap Beer, Appetizers, Cash Bar)  
Special Thanks - Beer Sponsor:  **Fairmount Santrol**  
Integrated Sand and Resin Solutions
- 8:00p - 12:00a After Hours Cash Bar (Serenity Room)

## Thursday, February 9, 2017

- 7:30a - 6:00p Registration Open  
8:00a - 5:00p EXPO Open  
8:30a - 8:50p Kickoff Presentation (Event Center Stage)  
*Kickoff Presentation Featuring Mr. Jeff Cook, AFS National President*  
9:00a - 10:15a Tech-Sessions #1  
10:30a - 11:45a Tech-Sessions #2  
11:45a - 1:15p Lunch with Exhibitors (ticket required) (Expo Center)  
Special Thanks - Lunch Sponsors:



- 1:15p - 2:30p Tech-Sessions #3  
2:30p - 5:00p Invitational Casting Competition w/ Dr. Hauser | Beer & Pretzels  
3:30p *Invited Guest - Milwaukee Mayor Tom Barrett*  
5:00p - 6:00p Reception (Event Center Lobby) (Tap Beer, Cash Bar)  
6:00p - 8:00p Keynote Awards / Dinner Banquet (Woodland Dreams Ballroom)  
*Keynote Featuring: Mr. Thomas Riordan, President & CEO, Neenah Enterprises*  
Special Thanks - Dinner Sponsors:



- 8:00p - 12:00a After Hours Cash Bar (Serenity Room)

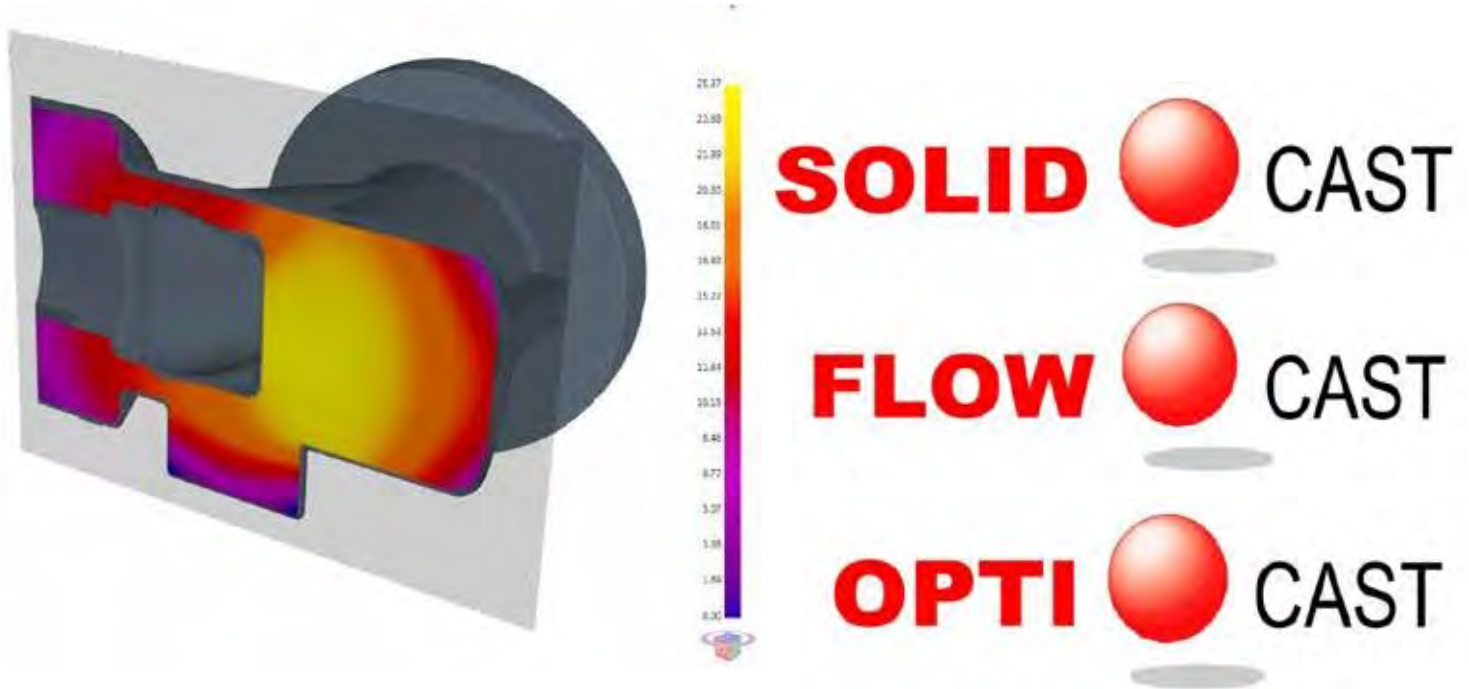
## Friday, February 10, 2017

- 7:45a - 10:00 Complimentary *Hot Breakfast Buffet* (Harmony Room)  
Special Thanks - Breakfast Sponsor:



- 8:45a - 10:00a Tech-Sessions #4

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# Regional Conference Schedule

## Wednesday, February 8, 2017

### AFS Institute Course Schedule

8:00 am – 11:30 am Morning Session

12:15 pm – 3:45 pm Afternoon Session

#### Location - Session



#### PROGRESS ROOM

**Topic:** *Virtual Casting Process (AM only)*

**Speaker:** Mr. Dave Charbauski

Learning Outcomes:

1. Define key industry terms.
2. Describe the major departments in a metalcasting facility.
3. Chronologically track a casting through the metalcasting facility from quoting to shipping.



#### PROGRESS ROOM

**Topic:** *Casting Material Properties (PM only)*

**Speaker:** Ms. Shelly Dutler

Learning Outcomes:

1. Identify and describe a variety of production characteristics that can influence the mechanical properties of a casting
2. Identify various tests to determine a casting's material characteristics.
3. Identify the impact of the distribution of mechanical properties on the function of the casting in-service.



#### INSPIRE ROOM

**Topic:** *Identifying Correct Casting Defect (AM & PM)*

**Speaker:** Dr. Sudesh Kannan

Learning Outcomes:

1. List the steps used in Casting Defect Analysis
2. State the benefits of using a consistent approach
3. Identify a good problem statement
4. Collect process data using the process sheet
5. State the importance of evaluating data

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# Meet Your Featured Thursday Kickoff & Keynote Speakers



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## Thursday Kick-Off Speaker: *Mr. Jeff Cook* Eagle Alloys, Inc. - AFS National President



Jeff has lived in the foundry town of Muskegon, Michigan his entire life. He lives there with his wife of 25 years, Dede, in the same school district from which he graduated in 1985. After completing his initial training in the Marine Corps Reserves in 1986 Jeff took his father's advice and began working at Eagle Alloy, Inc., a Shell-mold steel foundry in Muskegon, as a 3rd-shift snag grinder. He performed almost all possible duties over 5 years and then joined the Sales Department in 1990. He became Sales Manager in 1994 and was named Vice President of Sales and Marketing in January of 2015. His education has come from the many classes he's taken at Muskegon Community College and through CMI but mostly from the years he spent working on the shop floor of Eagle Alloy. After being involved in the leadership of the West Michigan AFS chapter for many years he joined the AFS National Board of Directors in 2011 and was honored to accept a nomination in 2014 to become AFS president. Jeff and Dede have a son, Zach, who graduated from Western Michigan University with a degree in Business Administration and now lives in Denver, Colorado and another son, Brad, who is currently taking metalcasting and engineering courses at Muskegon Community College and is very involved in the leadership of the student chapter Jeff helped start there in 2012.

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## Thursday Keynote Speaker: *Mr. Thomas Riordan* President & CEO, Neenah Enterprises, Inc.



Tom Riordan is the President and Chief Executive Officer of Neenah Enterprises, Inc. since 2011 and has been involved in heavy manufacturing leadership roles for over 35 years in a wide variety of industries, including automotive, construction and agricultural equipment, building products, and multi-industry companies, with both private and public ownership. He has extensive international accomplishments coupled with broad acquisition, integration, and business turnaround experience and skills. Tom previously was President and Chief Operating Officer for Terex Corporation, a Fortune 500 multinational manufacturer of construction equipment, and prior to that was Executive VP and Chief Operating Officer for SPX Corporation, a multinational diversified company headquartered in Charlotte, NC. He started his career at Borg Warner Automotive. He holds a Bachelor of Science degree in Engineering from Northwestern University, and a Masters in Industrial Administration from Purdue University. Tom is currently Chair of the Small and Medium Manufacturers group for National Association of Manufacturers (NAM) which represents 13,000 manufacturing organizations, and is the past Co-Chair of the United Way campaign for the Fox Cities.



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# Conference Tech Session Schedule

## Thursday, February 9, 2017



**Time:**                      **Session | Location**

**9:00 - 10:15 a.m.**



### **PROGRESS ROOM**

**Topic:** *Long Term Control Strategies in Green Sand*

**Speaker:** **Mr. Jim Furness, President, Furness - Newburge, Inc**

A discussion of several current and future green sand Issues including: Clay & sand reclamation, including ceramic sand respirable silica prevention, Advanced moisture control considerations, Advanced scrap and energy reduction techniques.

**Session Chair:** **Mr. Cory Ashburn**

**Session Co-Chair:** **Mr. Wayne Carr**

**9:00 - 10:15 a.m.**



### **PROSPERITY ROOM**

**Topic:** *Core making simulation software*

**Speaker:** **Mr. Mauricio Velazquez Blandino, Core & Mold Application Engineer**

How to maximize the investment of tooling modifications to ensure a robust and reliable process using core making simulation software. After accurately predicting the baseline conditions, what changes can be made to the tool that are feasible, quick and have low cost to maximize the time and money spent on tool modifications using Autonomous Optimization.

**Session Chair:** **Mr. Eric Lovejoy**

**Session Co-Chair:** **Mr. George Jr, Forish**

**9:00 - 10:15 a.m.**



### **INSPIRE ROOM**

**Topic:** *Mold Metal Interface Casting Related Issues*

**Speaker:** **Dr. Sam Ramrattan**

Dr Sam will discuss the issues that casting facilities need to be aware of at the mold metal interface.

**Session Chair:** **Mr. Carey Chapman**

**Session Co-Chair:** **Mr. Robert Puissant**

**9:00 - 10:15 a.m.**



### **CLARITY ROOM**

**Topic:** *Applications for Additive Manufacturing sand cores and beyond*

**Speaker:** **Professor Jerry Thiel, Director, Metal Casting Center Additive Manufacturing Center**

3 Dimensional printed sand has been gaining significant popularity in the metal casting industry. Additive Manufacturing offers much more

**Session Chair:** **Mr. Adel Rahman**

**Session Co-Chair:** **Mr. Doug Sawyer**



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# Conference Tech Session Schedule

## Thursday, February 9, 2017



### Time: Session | Location

10:30 - 11:45 a.m.

#### PROGRESS ROOM



**Topic:** *Team Management and Outstanding Quality*

**Speaker:** Ms. Sara Joyce, Vice President of Quality and Technical Support, Badger Mining.

The original talk was presented as the Hoyt Lecture during the Casting Congress in 2015. This update will discuss Team management and how culture influences quality.

**Session Chair:** Mr. Dave Jablonski

**Session Co-Chair:** Mr. Neil Kniseley

10:30 - 11:45 a.m.

#### PROSPERITY ROOM



**Topic:** *The Bifilm Theory*

**Speaker:** Kyle Metzloff, PH.D. Professor of Industrial Studies, University of Wisconsin Platteville.

The talk will revolve around a definition of what Bifilm is and how it is created in the practice of pouring metal. Kyle has been working with several people from the foundry industry in the United States and Canada to understand what bifilm is and how it affects casting we make. After understanding what we are working with he will also be talking about some best practices that help to minimize bifilms when pouring.

**Session Chair:** Mr. Tom Gaeding

**Session Co-Chair:** Mrs. Donna Nagy

10:30 - 11:45 a.m.

#### INSPIRE ROOM



**Topic:** *The Future of Beneficial Use of Industrial Byproducts in Wisconsin - An update on the status of WDNR's NR 538 revision process*

**Speaker:** PANEL Mr. Bryant Esch, Waupaca Foundry & Mr. Paul Turpin, TRC

**Session Chair:** Mr. Adel Rahman

**Session Co-Chair:** Mr. Phil Heston

10:30 - 11:45 a.m.

#### CLARITY ROOM



**Topic:** *New Aluminum Cerium Alloys*

**Speaker:** Mr. Dave Weiss Vice President Engineering / R&D, Eck Ind.

**Session Chair:** Tyler Eck

**Session Co-Chair:** Robert Puissant

# Conference Tech Session Schedule

## Thursday, February 9, 2017



11:45 - 1:15 pm **Lunch with Exhibitors in the Expo (ticket required)**

**Special Thanks to the Lunch Sponsors:**



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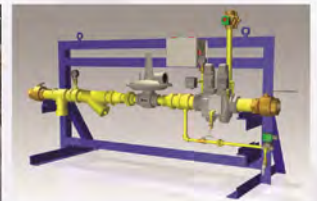


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# Conference Tech Session Schedule

## Thursday, February 9, 2017



### Session | Location

1:15 - 2:30 pm



#### PROGRESS ROOM

**Topic:** [Sandman Software: Greensand System Analytical Tool](#)

**Speaker:** Mr. Deepak Chowdhary

Review of the worlds first Data Analytic driven, decision support, predictive analytics Software “SANDMAN” ; for optimization of green sand with a view to reducing repetitive casting defects.

**Session Chair:** Mr. Mike Kamin

**Session Co-Chair:** Tom Beutler

1:15 - 2:30 pm



#### PROSPERITY ROOM

**Topic:** [OSHA’s New Silica Standard – Are You Ready?](#)

**Speaker:** Mr. Mike Lenahan, Vice President Sales, Industrial and Recreational Products, Fairmount Santrol

Outline of OSHA’s new Silica Standard and what foundries should be considering with regard to complying with the new standard.

**Session Chair:** Mr. Gerry Fontaine

**Session Co-Chair:** Mr. Greg Tordoff

1:15 - 2:30 pm



#### INSPIRE ROOM

**Topic:** [Heavy metal stabilization!](#)

**Speaker:** Mr. Christopher Scott, Technical Sales, TDJ.

Why it is needed, how it's regulated, methods used.

**Session Chair:** Mr. Pat Baskfield

**Session Co-Chair:** Mr. Nick Gerrits

1:15 - 2:30 pm



#### CLARITY ROOM

**Topic:** [Less Is More: Improving Ductile Iron Treatment Efficiency!](#)

**Speaker:** Mr. Mike Riabov, Field Account Manager, Elkem Materials Inc.

The presentation will cover various options for foundries to consider when they look at improving the efficiency of the ductile iron process.

**Session Chair:** Mr. Dan Herbst

**Session Co-Chair:** Mr. Eric Lovejoy

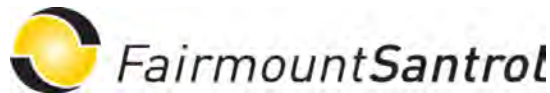
# 4th Annual Wisconsin Regional Invitational Casting Competition



The AFS Wisconsin, Stateline and Northeastern Wisconsin Chapters would like to thank the following companies for their donations and support of the Invitational Casting Competition.



BADGER MINING CORPORATION



Mr. George Forish Jr.

# 4th Annual Wisconsin Regional Invitational Casting Competition



The Wisconsin Regional Conference is pleased to include the 4th Annual Invitational Casting Competition as a regular event in the program for 2017.

The 79<sup>th</sup> Wisconsin Regional Foundry Conference is a great opportunity to promote education and build relationships between the academic and business communities. Teams of students from each of the invited AFS Student Chapters have worked together by designing, manufacturing and presenting castings which can be seen in the Expo Hall booths for the Invitational Casting Competition. These entries will be on display during the Conference exhibit hours. Please take the time to view their work and interact with the participating students.

This year it is expected that the competition will be challenging as Michigan Tech, Mohawk College, Pittsburg State, University of Northern Iowa, Muskegon Community College, University of Wisconsin -Platteville University of Wisconsin - Milwaukee, and Western Michigan University compete for the coveted first prize.

Judging is based on the benefits delivered to the customer and use of the casting process' unique capabilities. Quality and workmanship will be judged by industry experts. Awards will be presented at the Thursday Night Banquet, held in the Woodland Dreams Ballroom.

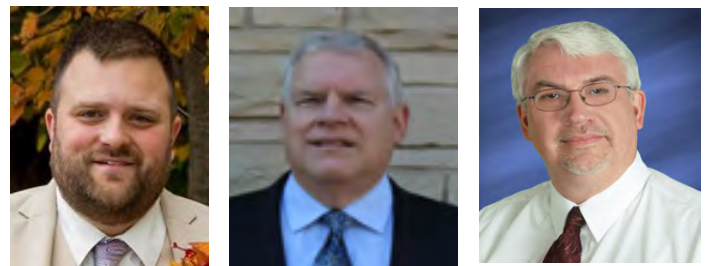
Please support the future workers of our great industry and stop in at the booths in the conference exhibit hall to view the student's posters and finished castings.

## AWARDS

**1<sup>st</sup> Place: \$2,500**  
**2<sup>nd</sup> Place: \$1,000**  
**3<sup>rd</sup> Place: \$500**

### Judges are as follows:

- **Zayna Connor** - AFS National
- **Dick Haun** - Gunitite, Stateline Chapter
- **Eric Johnson** - Northern Stainless, Wisconsin Chapter
- **Greg Miskinis** - Waupaca Foundry, NEW Chapter
- **David Weiss** - Eck Industries, NEW Chapter



Nick Gerrits, Carpenter Brothers, Inc.

Invitational Casting Competition Committee Chairperson

## Thank You for Your Support and Donations



# Regional Conference Schedule

## Thursday, February 9, 2017



<b>Time:</b>	<b>Session   Location</b>
2:30-5:00 p.m.	<b>Beer &amp; Pretzels   EVENT CENTER</b> <i>Special Guest Speaker - Dr Roger Hauser, UW Platteville</i>
3:30 p.m.	<i>Invited Guest - Milwaukee Mayor Tom Barrett</i>
5:00 - 6:00 p.m.	<b>Reception   EVENT CENTER LOBBY</b> (Tap Beer, Cash Bar)
6:00 - 8:00 p.m.	<b>Dinner Banquet - WOODLAND DREAMS BALLROOM After Hours</b>
8:00p - Midnight	<b>After Hours Cash Bar - SERENITY ROOM</b>

**SPEAKER AWARDS RECOGNITION:** The AFS Stateline, Northeastern Wisconsin and Wisconsin Chapters would like to thank Supreme Casting, Inc. and Precision Pattern Co., Inc. for casting, assembling, and finishing the award plaques. We also extend our appreciation to the Eckhart G. Grohmann Collection at the Milwaukee School of Engineering for supplying the Man at Work speaker-award books.



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# Regional Conference Schedule

## Thursday, February 9, 2017

**6:00-8:00 p.m. Keynote Awards/Dinner Banquet | WOODLAND DREAMS BALLROOM**



**Keynote Speaker: Mr. Tom Riordan, President and CEO of Neenah Enterprises, Inc.**

**Topic: How can we prepare the next generation for promising and rewarding careers.**

We face many challenges in the foundry industry and manufacturing in general. One of the largest challenges is how to attract the best and brightest talent in upcoming years to move our industry forward.

Session Chair: Doug Sawyer, Universal Welding & Engineering.

Session Co-Chair: Rick Yrigoyen, Foundry Products, Inc.

Session Co-Chair: Carey Chapman, Unimin Corporation.

Casting Competition and Scholarship Awards Ceremony to follow.

**THANK YOU TO OUR THURSDAY NIGHT DINNER SUPPORTERS:**



## Scholarships

### George J. Barker Memorial Scholarship

George J. Barker Memorial Scholarships support graduate level educational efforts with direct student scholarships, in arts and sciences beneficial to the cast metal industry, particularly within the AFS Wisconsin Chapter membership area. Final evaluation and selection of grant recipients are made through an interview process conducted by the George J. Barker Memorial Research Foundation Interview and Evaluation Committee. This Committee conducts interviews of each candidate either in person, via video conference or via telephone. The Committee uses a cascade of criteria in considering applications. The maximum award could be as much as \$5,000 although many factors such as funds availability, the number of qualified applicants, the needs of the individual applicants and certain screening criteria all can affect the sizes of the individual awards. Applications for the George J. Barker Memorial Scholarship are made through FEF. Applications are due by December 15 and awards are announced at the Wisconsin Regional. For more information, please visit the Wisconsin Chapter website [www.wisconsinafs.org](http://www.wisconsinafs.org) or the FEF website [www.fefinc.org](http://www.fefinc.org).

### The FEF Past Presidents' Scholarship Fund

This FEF Past Presidents' Scholarship Fund is made possible through your directed support of this fund and through the ongoing support of the AFS Wisconsin Chapter. It is for undergraduate students (primarily FEF schools, but qualified students attending non-FEF schools will be considered. Application occurs to FEF through the key professor at each school. Scholarships are issued by the chapter's Past Presidents Committee, in cooperation with the FEF Executive Director. Applications are due by December 15 and awards are announced at the Wisconsin Regional.

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**BOOTH 300**

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P: (412) 833-9733  
F: (412) 399-1304

# Regional Conference Schedule

## Friday, February 10, 2017



**Time:**

**Session | Location**

7:45-9:45 a.m.

**Hot Complimentary Breakfast Buffet | HARMONY ROOM**

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8:45-10:00 a.m.



### **PROGRESS ROOM**

**Topic:** When you have a 4% scrap rate, how do you definitively determine what combination of process variables is causing the fallout?

**Speaker:** Mr. Benji Johnson, Technical Applications Manager, Magma

Historically, casting process simulation has been a finite “what-if” approach wherein singular process values and fixed geometries were evaluated within the computer. Insight was gained and physical sampling costs were saved. The iterative process continued until a satisfactory solution was reached.

**Session Chair:** Mr. Robert Puissant

**Session Co-Chair:** Mr. George Jr, Forish

8:45-10:00 a.m.

### **PROSPERITY ROOM**

**Topic:** Women in Metalcasting - Careers and Work-life.

**Speaker Panel:**

**Ms. Lizeth Medina Alatorre, Technical Services Manager, Neenah Foundry.**

**Ms. Sara Karp, Graduate Student, University of Wisconsin-Milwaukee.**

**Ms. Michelle Ring, Technical Sales Manager, American Colloid.**

This panel will address common issues that women in the metalcasting industry face as they are just entering the industry out of college, balancing family with work and developing their careers. This topic is approached from the various view points of three women, each in different phases of their lives and careers.

**Session Chair:** Ms. Anne Schmidt

**Session Co-Chair:** Mrs. Donna Nagy



8:45-10:00 a.m.



### **INSPIRE ROOM**

**Topic:** Refractory Coatings and Proper Practice

**Speaker Panel:** Mitch Patterson, HA International & Jeff Cieplewski Prince Minerals

**Session Chair:** Mr. Daniel Jason

**Session Co-Chair:** Mr. Eric Pahr

8:45-10:00a.m.

### **CLARITY ROOM**

**Topic:** Green Sand/Core Sand Control

**Speaker Panel:** Mr. Jerry Darlington, Mineral Technologies & Mr. Gregory Miskinis, Waupaca Foundry.

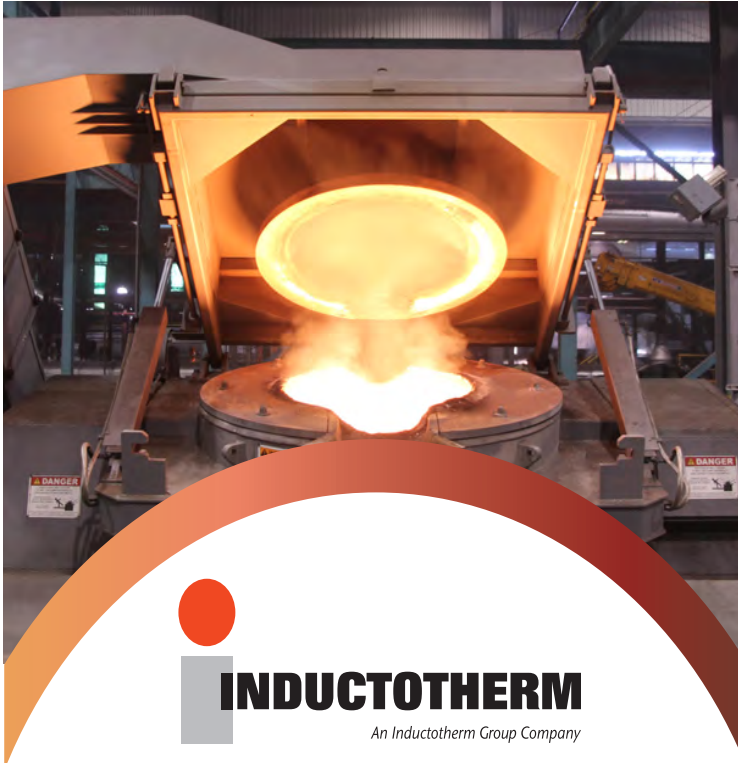
Panel discussion about clay and sand reclamation. Jerry will speak about the methodology used by Mineral Technologies which introduces no chemicals (high pressure water) Greg will review the current three stage (mechanical-thermal-mechanical) sand reclamation systems and the challenges presented with mixed core sand and green sand.

**Session Chair:** Mr. Adel Rahman

**Session Co-Chair:** Mr. Doug Sawyer







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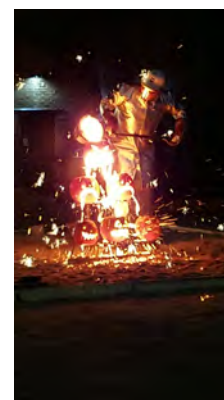
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# University Wisconsin Platteville Annual Pumpkin Pour



# Foundry-in-a-Box

The Wisconsin AFS Chapter has taken an assertive approach to promote the foundry industry to local schools and surrounding communities through the Foundry-in-a-Box program. Foundry-in-a-Box is an educational tool that consists of a small melter, flasks, patterns, reusable sand, related tools and safety equipment, and tin. It is highly portable and requires no special facilities in order to be used. Our Chapter's volunteers have been successful in educating all levels of interest including middle school, high school, and college students.

By introducing young people to metalcasting and educating them and their communities on the importance of the metalcasting industry, we will ensure more people choose metalcasting as a career path. Foundry-in-a-box also encourages communities to recognize and support the value of our industry.

When we cultivate new talent, the industry will continue to thrive and remain competitive in today's global manufacturing environment. AFS chapters, groups, teachers and even parents can draw upon this program to spotlight the metalcasting industry, and HAVE FUN WHILE DOING IT!

Our Chapter's Education Committee will continue to focus on the education, mentoring, and recruitment of young talent. If you are interested in becoming involved with this program, please inquire at the Registration Counter

Thank you,

Rick Yrigoyen, *Foundry Products, Inc.*  
AFS Wisconsin Chapter Vice President  
Education Committee Chair



**EXPERIENCE Foundry in a Box first hand! We invite you to come and cast the 79th Wisconsin Regional Medallion!**



*We welcome donations to support the outreach efforts of Foundry-in-a-Box.*

A special thanks to **Manitowoc Grey Iron Foundry** for maintaining the Foundry-in-a-Box equipment, and for making the pattern for this year's 79th Wisconsin Regional commemorative medallion.



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- Practical and timely information to keep you current on metalcasting technology, management and government affairs issues through Modern Casting.
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- In-depth information to keep you up-to-date, provided through current books, videotapes, transactions and research reports, discounted to AFS members only.
- Library services, providing all types of metalcasting information from the AFS Library through the Retrieval Service and Metalcasting Abstract Service, discounted to AFS members only.
- Improved operations through management and technical software programs available to members at significant discounts.
- Proactive leadership and industry representation in the political arena, providing a voice for all metalcasters through the AFS Washington Office.
- Peer Recognition through involvement in AFS management and technical committee accomplishments.

For more information please visit [www.afsinc.org](http://www.afsinc.org)



**Eric C. Wood, Vice President**

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# Regional Conference Schedule

## Wednesday February 8, 2017

**Thank you for your support!**

**The AFS Wisconsin Chapter, in cooperation with the AFS - Stateline and the Northeastern Wisconsin Chapters, would like to thank all of the speakers, exhibitors, attendees, and the Regional Planning Committee for making this event a great success!**





# The 80th Annual Wisconsin Regional Foundry Conference & Exposition

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I am Steve Wright.  
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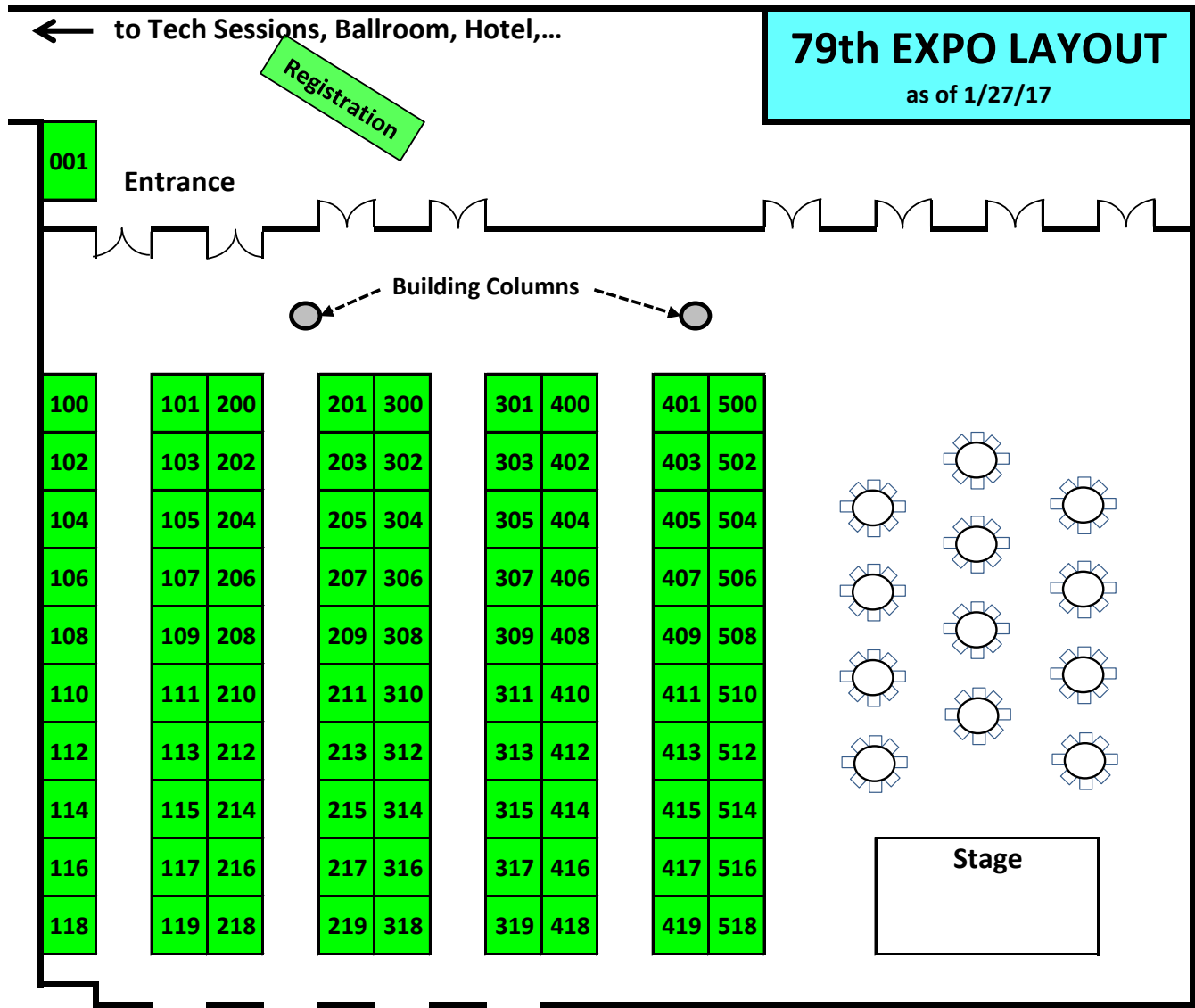
Max  
Lee

Steve  
Wright

Jock  
Kam



# EXHIBITORS MAP



Booth #	Organization
403	ABP Induction, LLC
308	Abrasives-MFG LLC
001	AFS Membership Committee
411	AFS National
319	Ajax-Tocco
111	Alter Trading Corp
300	American Colloid Company
117	Anderson Global
210	Anderson Laboratories, inc.
302	B&L Information Systems
401	Badger Mining Corp
203	Blast Cleaning Technologies
218	Bronco Blast
101	Carpenter Brothers
309	Carrier Vibrating Equipment, Inc.
416	CR Meyer
409	Daubert Cromwell
206	DIDION International, Inc.
100	DISA Industries
316	EMI
104	EMSCO Inc
404	Ervin Industries
413	Exact Metrology
418	ExOne
419	Finite Solutions Inc
304	FLASH
414	Focus on Energy / WCMA
213	Foseco
500	Foundry Educational Foundation
201	Foundry Products, Inc. / Fairmount Santrol
518	Foundry-in-a-Box

Booth #	Organization
108	Free Flow Technologies, Ltd.
114	Great Lakes Power Vac
106	Green Packaging, Inc.
405	HA International
407	Heraeus Electro-Nite
113	Hickman Williams & Company
318	Humtown Products
311	Hunter Foundry Machinery Corp.
512	ICC - Michigan Technological University
514	ICC - Mohawk College
508	ICC - Muskegon Community College
510	ICC - Pittsburg State University
506	ICC - University of Northern Iowa
516	ICC - University of Wisconsin - Milwaukee
502	ICC - University of Wisconsin - Platteville
504	ICC - Western Michigan University
109	Imerys
301	Inductotherm Corp.
214	IRB INC
412	J.B. DeVenne Inc
118	John Maye Associates of Wisconsin, Inc.
200	Joy-Mark, Inc.
215	Kloster Foundry Equipment
400	Kuttner LLC
406	LaempeReich
103	LECO Corporation
313	Marshall W. Nelson & Associates, Inc.
307	Metals Engineering, Inc
415	Midvale Industries
219	Milwaukee Chaplet Inc.

Booth #	Organization
310	Modern Equipment
417	Non-Ferrous Founders' Society
315	NorthStar Blast Solutions
112	Oxford Instruments
105	Peerless Metal Powders and Abrasive
303	Perfect Patterns, Inc.
217	PGI Inc.
317	Pillar Induction
216	ProFound Alloys
306	Refractory & Insulation Supply, Inc.
402	Roberts Sinto Corporation
312	Sadoff Iron & Metal Company
107	Saveway USA
202	Schust
410	Scrap Metal Services
314	solidThinking
208	SPECTRO Analytical Instruments
110	Summit Foundry Systems, Inc.
212	Team Industrial Services, Inc.
119	The Wasmer Company
211	ThermTech
209	Thermtronix Corporation
116	Tinker Omega Mfg LLC
204	Unimin Corp
305	United Surface Preparation
207	Universal Welding
205	Versevo Inc.
115	W Abrasives
102	Wheelabrator Group
408	YXLON