

AFS METALCASTING CONGRESS

April 3-5, 2018
Fort Worth, Texas

MOLDING A BETTER FUTURE



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EXHIBITOR & PROGRAM GUIDE

Floor Plan | Exhibitor Listings | Sessions & More



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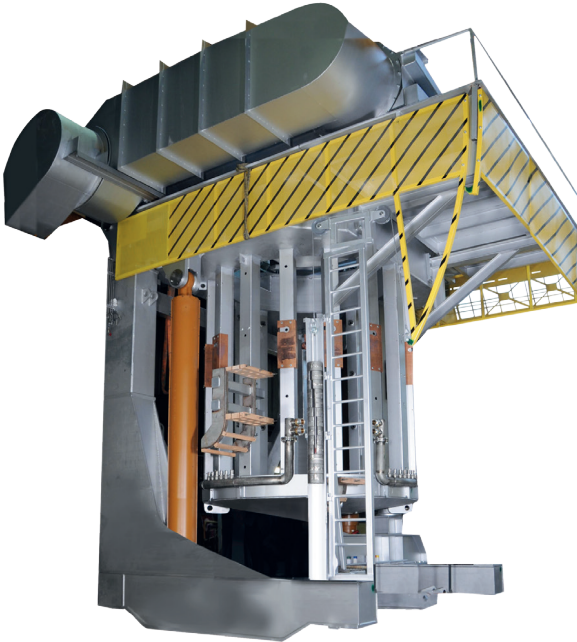
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AFS METALCASTING CONGRESS

April 3-5, 2018 Fort Worth, Texas

Welcome to North America's premier conference and trade show for casting producers, buyers, and industry suppliers! This year's Metalcasting Congress is our 122nd, drawing on a proud tradition. We are excited to be here in Fort Worth, a great industrial city with plenty of visitor attractions and cultural attributes as well.

The technical and management content and insights to be offered over the next several days will help attendees optimize their success for months and even years to come. Among the many highlights this year are:

- The chance to interact with suppliers, metalcasters, and casting buyers on the show floor.
- Technical sessions where groundbreaking papers and expert panels will be presented.
- Informative management sessions on marketing and human resources.
- Compelling offerings by our Shared Interest Groups (SIGs) – Women in Metalcasting and Future Leaders in Metalcasting.
- Educational courses provided by the AFS Institute.
- Keynote addresses by Jean Bye of Dotson Iron Castings and noted economist/policy expert Stephen Moore.
- Annual Hoyt Memorial Lecture to be delivered by Dan Oman of Haley & Aldrich.
- The HUB – the focal point for meet-ups, AFS resources, e-Learning demonstrations, and the AFS Bookstore.
- The Annual Banquet and the President's Luncheon and Annual Business Meeting, where we will recognize excellence in a variety of categories.

Casting designers and end-users of castings will benefit from the casting design and purchasing education being offered as well as from the industry-exclusive Cast In North America exhibition that showcases the capabilities of North American metalcasters.

We thank our attendees and exhibitors for their support. We also recognize the work of the AFS committee and SIG members, and their supporting companies, who developed an excellent slate of educational programming. By taking advantage of these sessions, attendees can improve their technical and competitive position for the future. Thanks also to the AFS professional staff for their tireless work in making Metalcasting Congress a success.

We trust you will enjoy and profit from the sessions and exhibitions!



Doug Kurkul
Chief Executive Officer
American Foundry Society

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Metalcasting Congress 2018 App



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Foundry and Diecaster Network / Metal Casting Design and Purchasing



American Foundry Society

The 122nd Metalcasting Congress is sponsored by the American Foundry Society (AFS), the leading metalcasting association in North America. Based in Schaumburg, IL, AFS provides members with advocacy, coordination and efforts in Washington, D.C., ongoing technical education through its Institute, as well as the transfer of innovative research and technology to the industry.



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Table of Contents

122nd Metalcasting Congress

General Information.....	7
Special Events.....	11
Special Sessions.....	13
The HUB.....	15
Keynote Speakers.....	18
Congress Program.....	20
Division Chairs & Program Chairs.....	142
Congress at a Glance.....	<i>Inside Back Cover</i>
Exhibit Floor Plan.....	<i>Outside Back Cover</i>

122nd Metalcasting Congress Exhibitors

Featured Exhibitors.....	38
Exhibitor Booth List Alphabetical - Suppliers.....	41
Exhibitor Booth List Category - Suppliers.....	49
Exhibitor Directory - Suppliers.....	61
Exhibitor Booth List Alphabetical - Cast In North America.....	121
Exhibitor Booth List Category - Cast In North America.....	122
Exhibitor Directory - Cast In North America.....	124

Product Showcase

Product Showcase.....	129
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AFS Information

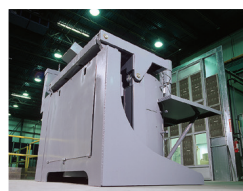
AFS and the Institute Board of Directors.....	135
AFS and the Institute National Officer & Director Nominees.....	138
2018 Awards.....	140
AFS Corporate Members.....	144
AFS and the Institute Upcoming Events.....	154

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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

General Information

Registration

(Fort Worth Convention Center - Belt Buckle Lobby)

Monday, April 2:	4 – 6 p.m.
Tuesday, April 3:	7 a.m. – 5 p.m.
Wednesday, April 4:	7 a.m. – 5 p.m.
Thursday, April 5:	7 a.m. – 12:30 p.m.

** CompuSystems lead retrieval counter will be near the registration counters.*

Exhibit Hall

(Fort Worth Convention Center - Exhibit Hall A)

Wednesday, April 4:	9 a.m. – 6 p.m. (Reception with Exhibitors: 4:30 – 6 p.m.)
Thursday, April 5:	9 a.m. – Noon (Breakfast with Exhibitors: 9:30 a.m.)

**AFS Bookstore, HUB, Membership and Magazine areas will follow the Exhibit Hall schedule. A satellite AFS Bookstore will be open 8:30 a.m. – 3 p.m. on Tuesday, April 3 on the second floor near the escalators.*

Technical/Management Sessions

(Fort Worth Convention Center - Rooms 201C, 202A, 202B, 202C, 203B)

Tuesday, April 3:	8 a.m. – 4:45 p.m.
Wednesday, April 4:	8 a.m. – 4:45 p.m.
Thursday, April 5:	8 – 10:15 a.m.

Institute Sessions

(Fort Worth Convention Center - Room 203A)

Tuesday, April 3:	1:30 – 4:45 p.m.
Wednesday, April 4:	1:30 – 4:45 p.m.
Thursday, April 5:	8 – 10:15 a.m.

Technical Office / Speaker Ready Room

(Fort Worth Convention Center - Room 202D)

Monday, April 2:	1 – 5 p.m.
Tuesday, April 3:	7 a.m. – 5 p.m.
Wednesday, April 4:	7 a.m. – 5 p.m.
Thursday, April 5:	7 – 10 a.m.

AFS Office

(Fort Worth Convention Center - Room 100)

Monday, April 2:	1 – 5 p.m.
Tuesday, April 3:	8 a.m. – 5 p.m.
Wednesday, April 4:	8 a.m. – 5 p.m.
Thursday, April 5:	8 a.m. – 10 a.m.

GES Exhibitor Service Center / Owen Electric / Smart City

(Fort Worth Convention Center - Back of Exhibit Hall A)

Tuesday, April 3:	10 a.m. – 5 p.m.
Wednesday, April 4:	10 a.m. – 6 p.m.
Thursday, April 5:	9 a.m. – 12 p.m.

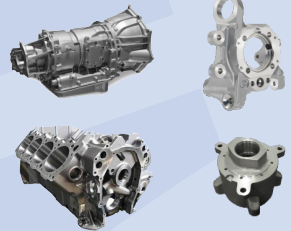
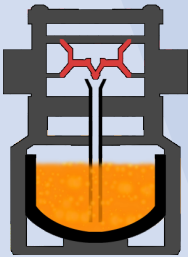
Minimum Age Restriction

Children under the age of 16 are not permitted on the show floor.



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TYPICAL APPLICATION

- Aluminium holding for gravity and low pressure die casting

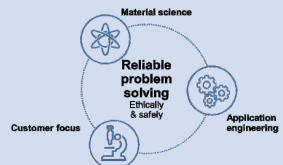
DISTINCTIVE COMPETENCIES

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AFS Bookstore

A satellite AFS Bookstore will be open 8:30 a.m. – 3 p.m. on Tuesday, April 3 on the second floor near the escalators.

Main AFS Bookstore Location

The HUB – Booth 517 (Hours follow the Exhibit Hall schedule)

The HUB

Booth 517 (Hours follow Exhibit Hall schedule)

Excellence in Service Registration

The traditional book for registering your years of volunteer service in the metalcasting industry will be located in The HUB - Booth 517. AFS Members who have served the industry for five or more years are invited to register and receive the Volunteer Milestone Pin.

Policy on Audio and Video Recording

AFS reserves the right to any audio and video reproduction of any part of Metalcasting Congress. Recordings (audio, video, still photography, etc.) intended for personal use, distribution, publication or copyright without the express written consent of the association and the individual authors or exhibitors is strictly prohibited.

Antitrust Policy

The Antitrust Policy statement of the American Foundry Society is available to anyone attending Metalcasting Congress. Copies are available in the AFS Office.

Special Events/Sessions

Tuesday, April 3

Author Chair Breakfast

7 – 8 a.m.

(Fort Worth Convention Center – Room 200)

Keynote Speaker/Honorary Lecture:

10:30 – 11:30 a.m.

Disaster Recovery—Everyone's Worst Nightmare

Jean Bye - *Dotson Iron Castings - Mankato, MN*

(Fort Worth Convention Center – Ballroom C)

Copper Division Luncheon

11:30 a.m. – 1 p.m.

(Fort Worth Convention Center – Room 200) - *Ticketed Event*

Past President's Luncheon

11:30 a.m. – 1 p.m.

(Del Frisco's Restaurant – 812 Main St.) - *Invitation Only*

Annual Banquet Reception

6 – 7 p.m.

(Hilton Fort Worth – Crystal Ballroom – West Promenade) - *Cash Bar*

Annual Banquet

7 – 10 p.m.

(Hilton Fort Worth – Crystal Ballroom) - *Ticketed Event*

Wednesday, April 4

Author Chair Breakfast

7 – 8 a.m.

(Fort Worth Convention Center – Room 200)

Women in Metalcasting Breakfast

7:30 – 9 a.m.

(Fort Worth Convention Center – Room 204) - *Invitation Only*

Keynote – Hoyt Memorial Lecture:

10:30 – 11:30 a.m.

Changing Perceptions: The Need for an “Unbalanced Force”

Dan Oman - *Haley & Aldrich Inc. - Ann Arbor, MI*

(Fort Worth Convention Center – Ballroom C)

Division Recognition Luncheon

11:30 a.m. – 1 p.m.

(Fort Worth Convention Center – Room 204) - *Ticketed Event*

Future Leaders in Metalcasting Session

2 – 4 p.m.

(Fort Worth Convention Center – Room 203C) - *Invitation Only*

Exhibit Floor Reception

4:30 – 6 p.m.

(Fort Worth Convention Center – Exhibit Hall A)

Alumni Dinner

6:30 – 9:30 p.m.

(Cowboy Hall of Fame – Stockyard District) - *Ticketed Event - Alumni Only*

Thursday, April 5

Author Chair Breakfast

7 – 8 a.m.

(Fort Worth Convention Center – Room 202D)

Continental Breakfast With Exhibitors

9:30 – 10:30 a.m.

(Fort Worth Convention Center – Exhibit Hall A)

AFS Institute Course: Creating a Culture of Respect Through Feedback

(Fort Worth Convention Center – Room: 202B)

8 – 10:15 a.m.

Keynote Speaker:

10:30 – 11:30 a.m.

Economic and Political Update

Stephen Moore - *Heritage Foundation - Washington, D.C.*

(Fort Worth Convention Center – Ballroom C)

President’s Luncheon / Annual Business Meeting

11:30 a.m. – 1:30 p.m.

(Fort Worth Convention Center – Room 204) - *Ticketed Event*

Plant Tour

2:30 – 5 p.m.

(Midland Manufacturing Co.-Transportation Provided) - *Ticketed Event*

Other Rooms:

Committee Meeting Rooms

(Fort Worth Convention Center – Rooms 102 and 103)

Board Meeting Room

(Fort Worth Convention Center – Room 104)



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Special Events

Most events take place at the [Fort Worth Convention Center](#) unless otherwise noted.

Copper Division Luncheon

Tuesday, April 3 | 11:30 a.m. | Room 200 | Ticket Required | \$55

The Copper Division will present its David Kunkel Distinguished Service award and will feature speaker Ed Brown of the North Fort Worth Historical Society. The Copper Division Scholarship will be presented. The luncheon is open to everyone with an interest in copper alloys.

Annual Banquet

Tuesday, April 3 | Cash bar 6 – 7 p.m. | Awards, dinner, then entertainment 7 – 10 p.m. | Hilton Fort Worth – Crystal Ballroom | Ticket Required | \$110

Join us for the presentation of the highest honor from AFS, the Gold Medal. This year's recipients are [John R. Keough, P.E.](#) and [Dr. David V. Neff](#).

The entertainment for the evening will be [It Takes 2 Dueling Pianos](#), with [Joe Phillips](#) and [Emmeline](#), two talented performers who will have everyone tapping their toes and singing along.

Joe Phillips is a keyboardist and vocalist who began his career in the Chicago area, touring with several bands and performing as a solo artist. He has composed music for corporate events and jingles for radio, as well as for hundreds of TV shows. He is founder of Joe Phillips Production Inc. In recent years, he has made his home in Dallas, where he composes and performs as a solo artist for events of all types.

Emmeline has been a pianist since the age of four and a songwriter since 11-and-a-half (because, when you're young, you count by "halves"). She earned a Bachelor of Arts in general music at Scripps College, where she studied voice, piano and music theory. Emmeline uses her versatile musical palette to explore stories of everyday life which allow each listener to forge an intense and immediate connection.

Women in Metalcasting Breakfast

Wednesday, April 4 | 7:30 a.m. | Room 204 (Invitation only)

This event is open to members of the Women in Metalcasting group and features a continental breakfast and networking with women who work in all facets of the metalcasting industry.

Division Recognition Luncheon

Wednesday, April 4 | 11:30 a.m. | Room 204 | Ticket required | \$55

This luncheon will feature the presentation of the Best Paper and Division awards, as well as the Applied Research and Howard F. Taylor Award.

Reception with Exhibitors

Wednesday, April 4 | 4:30 p.m. | Exhibit Hall A

Attendees are encouraged to mingle on the show floor with exhibitors. Enjoy snacks and refreshments.

Alumni Dinner

Wednesday, April 4 | 6:30 p.m. | Cowboy Hall of Fame | Ticket required (Must be alumni to attend) | \$100

Grab your cowboy hat and boots and join fellow alumni for dinner and a guided tour at the Texas Hall of Fame in the historic Stockyards District. The Texas Hall of Fame honors men and women who have excelled in the sport and business of rodeo and the Western lifestyle in Texas. The 100-plus inductees include Nolan Ryan, Tommy Lee Jones, Trevor Brazile, Don Edwards, George Strait, Lane Frost, Ty Murray, Barry Corbin, Red Steagall, Tuff Hedeman, J.J. Hampton and many more. They have their own booths containing personal memorabilia to view. (Includes transportation. Transportation departs from outside the Belt Buckle Lobby on Commerce Street.)

Continental Breakfast with the Exhibitors

Thursday, April 5 | 9:30 – 10:30 a.m. | Exhibit Hall A

Attendees are encouraged to visit exhibitors they still want to meet while grabbing a cup of coffee and breakfast.

President's Luncheon & Annual Business Meeting

Thursday, April 5 | 11:30 a.m. | Room 204 | Ticket required | \$55

Join the annual meeting, where the election of AFS officers and directors will be announced. In addition, the AFS Awards of Scientific Merit, Service Citations, Casting of the Year, Corporate Contribution Award and Millionaires Safety Awards will be presented.

Plant Tour

Thursday, April 5 | 2:30 – 5 p.m. | Ticket required | \$20

Join us for a tour of nearby AFS Corporate Member Midland Manufacturing Co. Midland specializes in water well cylinders and cast bronze products and is in its fourth generation of family leadership. The registration fee includes round-trip transportation as well as a beverage and light snack. (Transportation departs from outside the Belt Buckle Lobby on Commerce Street.)



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Special Sessions

Sessions take place at the **Fort Worth Convention Center**. Full Education and Exhibits registration is required to attend special sessions.

Preparing for the Metalcasting Workplace of Tomorrow

Tuesday, April 3 | 8:30 - 10 a.m. | Room 203B

The panel discussion is hosted by human resource leaders across the metalcasting industry, spotlighting key topics from the February 2018 Metalcasting Industry Human Resources Conference. These key topics continue to impact our organizations as we prepare for the metalcasting workplace of tomorrow. Topics will include: Future of Performance Management, Managing Change and Mapping Your Succession Plan, Current Trends and Best Practices in Compensation, Building Your Employer Brand, Utilizing Technology for Recruitment, and Creating a Flexible Work Environment for Shop Floor Employees.

Work Hardening: How to Overcome Obstacles

Wednesday, April 4 | 9:15 - 10:15 a.m. | 203B

Whether it is the market, finances, people, systems, technology or change, the workplace is filled with challenges. From entry-level staff to CEOs, adversity in the workplace affects us all. How we embrace these challenges and our ability to learn and grow from them stand as a reflection of character, culture and adaptability. View challenges for what they are - obstacles for growth and opportunities to succeed.

Future Leaders in Metalcasting Session

Wednesday, April 4 | 2 - 4 p.m. | Room 203C (Invitation only)

Are you interested in hearing from both prospective new future leaders and those who have already started leading the way? Do you want to know what students are looking for in an employer? Do you want to hear some best practices on issues you are currently facing at your location? During the panel discussion, you will ask questions of leaders in the metalcasting industry on relevant topics in the industry and network with other professionals. The second half will consist of students entering the workforce or those recently engaged in the metalcasting industry. Get involved in this interactive discussion and learn ways to attract young talent and also discuss issues facing future leaders every day. Cocktails and appetizers will be provided during this event.

Creating a Culture of Respect Through Feedback

Thursday, April 5 | 8 a.m. | Room 203A

Today, it's more critical than ever to develop a culture of respect and safety for all employees. Senior leaders have one role in creating a workplace that promotes tolerance and collaboration. But the fact is we all have a stake in driving a safe and enjoyable work climate, whether you're a man or a woman, salaried or hourly, experienced or brand-new. One way you can support a thriving workplace is through your ability to deliver and receive feedback. We get a lot of feedback from bosses, colleagues, spouses, parents, neighbors, and customers – and it's never easy to accept. Why? Because even though we all want to learn and develop, we have a conflicting and fundamental need to be accepted and respected. Learn about three triggers of feedback and how to defuse the triggers before they impact your credibility, reputation, and a workplace that works for everyone. Through the unique Leading Edge blend of research and best practices, improvisational comedy, and interaction, you'll walk away more open and ready to learn. AFS Institute course sponsored in part by Women in Metalcasting. ***This special session is available to all attendees.***

Training for Excellence in Metalcasting

e-Learning
Solutions
Booth
517





April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

The HUB Booth 517

The HUB is a dedicated area for connecting with AFS staff and other attendees. This area features the **AFS Bookstore**, **AFS Products & Services**, **AFS Makerspace** and the **Casting of the Year** display.

Ongoing features and activities include:

AFS Bookstore

The premier bookstore for people in the metalcasting industry. Practical and technical publications will be on hand, along with signature clothing and gift items.

AFS Products & Services

Whether you are a member of AFS or plan on becoming one, stop by and learn about the competitive edge AFS membership provides.

Additionally, AFS provides numerous opportunities for advertisers to reach decision-makers, both in metalcasting facilities and at OEMs. Whether you represent a metalcaster or a supplier to the metalcasting industry, AFS has a program for you! Our sales staff will be available to discuss opportunities for reaching metalcasters and buyers and designers of cast metal components.

Issues of *Modern Casting*, *Metal Casting Design & Purchasing*, *Global Casting Magazine* and *Melting Point* will be available. Stop by and pick up the latest issue.

AFS Institute

Spend a few minutes with The Institute learning how quality education in various aspects of metalcasting can advance your company. Metalcasting workforce training just became more convenient and affordable. Tour and demo our newly enhanced e-Learning modules.

AFS Makerspace

See AFS' new 3-D printer in action and get hands-on by making your own casting.



2018 Casting Competition

AFS and *Metal Casting Design & Purchasing* magazine recognize superior cast component design in the annual Casting Competition. Castings are judged by industry representatives based on the achievements of the material and casting processes showcased within the design. Winning castings will be on display in The HUB.

AFS Theater

The following presentations will take place in **The HUB**:

Wednesday, April 4

Excellence in Metalcasting Education with Shelly Dutler	10 – 10:30 a.m.
AFS/FEF Student Technology Digital Poster Contest	1 – 2 p.m.
Meet the Author featuring Ted Schorn	2 – 2:30 p.m.
Coming Soon at AFS with Doug Kurkul	2:30 – 3 p.m.
AFS Wisconsin Regional Casting Competition	
Winners: University of Wisconsin-Platteville	3 - 3:30
The Corporate Member Advantage with Ben Yates	3:30 – 4 p.m.

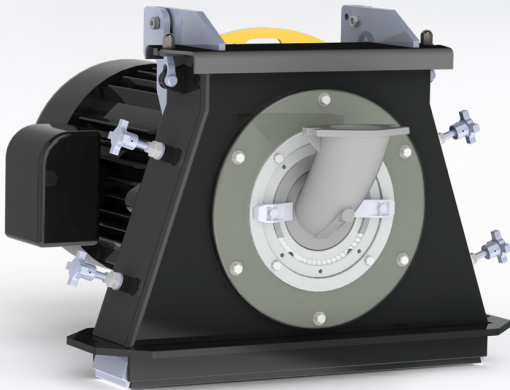
Thursday, April 5

Meet the Author featuring Dave Neff	10 – 10:30 a.m.
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Enter to Win an Apple TV 4K

Download the Metalcasting Congress Event app, complete the scavenger hunt and you will be entered in a raffle to win an Apple TV 4K and other prizes provided by the American Foundry Society.

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info@conveyordynamicscorp.com



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Keynote Speakers



Tuesday Keynote Speaker/Honorary Lecture **Disaster Recovery— Everyone's Worst Nightmare**

Jean Bye, *Dotson Iron Castings, Mankato, MN*

Tuesday, April 3 | 10:30 – 11:30 a.m.

Sponsored by the AFS Cast Iron Division

In the early morning hours of Sept. 23, Dotson Iron Castings experienced a fire that would destroy all of its molding capabilities, completely shut down its operation and require a recovery effort beyond what could ever have been detailed in a disaster recovery plan. Bye will talk about the many twists, turns, and lessons learned throughout the recovery process relating to disaster preparedness.



Hoyt Memorial Lecture **Changing Perceptions: The Need for an “Unbalanced Force”**

Dan Oman, *Haley & Aldrich Inc., Ann Arbor, MI*

Wednesday, April 4 | 10:30 – 11:30 a.m.

Perceptions are a function of information received from many different sources. These perceptions become firmly held beliefs that rarely, if ever, change. Today, the typical perception of the metalcasting industry is that of a smokestack industry utilizing low technology and lacking in challenging career opportunities. This perception remains virtually unchanged since the 1970s. According to Newton's First Law of Motion, an object moving in space continues to move in the same direction at a constant velocity in the absence of an unbalanced force. In the absence of an unbalanced force, perceptions also will not change. Over the past 40 years, many individuals have acted as an unbalanced force to change perceptions. This presentation will examine the common aspects of these efforts so that each of us can have an impact on perceptions.



Thursday Keynote Speaker **Economic and Political Update**

Stephen Moore, *Heritage Foundation, Washington, D.C.*
Thursday, April 5 | 10:30 – 11:30 a.m.

Respected economist Stephen Moore was Senior Economic Adviser to the Trump Campaign in 2016.

“Stephen Moore is one of the foremost experts on tax policy and one of the most influential advocates for economic growth,” said Doug Kurkul, CEO of the American Foundry Society. “The insight and perspective he offers will benefit Metalcasting Congress attendees in their business planning and decision-making.”

Moore is currently the Distinguished Visiting Fellow for the Project for Economic Growth at the Heritage Foundation. In prior roles, he was the Founder of the Club for Growth, a member of the *Wall Street Journal* editorial board, and Founder of the Free Enterprise Fund. Moore was the Co-Founder of the Committee to Unleash Prosperity, alongside Arthur Laffer, Steve Forbes and Larry Kudlow.

The author or co-author of several books, Moore earned a bachelor of arts degree from University of Illinois at Urbana-Champaign. He holds a Master of Arts in economics from George Mason University. Moore’s commentary has often been featured on CNN, Fox News, and other news outlets.

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122nd METALCASTING CONGRESS
April 3-5, 2018
Ft. Worth, Texas, **Booth #129**

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AFS
METALCASTING CONGRESS

Congress Program

April 3-5, 2018 Fort Worth, Texas

(Subject to change)

To complement the exhibit floor, the 122nd Metalcasting Congress offers engaging keynote speakers, numerous shared interest group meetings, exciting programs, interactive AFS Institute courses, and expansive technical and managerial sessions.

Full Education and Exhibits registration is required to attend all sessions except for the sessions with blue and grey backgrounds.

Tuesday, April 3

7 a.m.

Author/Chair Breakfast

Room 200

8 - 9 a.m.

Room: 202C

Presented by the Copper Division

Session Chairs: Jeff Sorenson, I Schumann & Co., Bedford, OH; Andrew Bain, Ford Meter Box Co., Inc., Wabash, IN

Panel: Multiple Alloys Scrap Management: Alloy Issues, Segregation, and In-Plant Management (18-126)

James Michel, Copper Development Association Inc., New York, NY; Mike Galvin, Buck Co. Inc., Quarryville, PA

Category: Nonferrous

Track: Technical

Room: 202A

Presented by the Engineering Division

Session Chair: Greg Bray, Electric Controls & Systems Inc., Birmingham, AL

Research into the Quantitative Evaluation of Casting Surfaces Using 3-D Laser Scanning (18-090)

Nathaniel Bryant, University of Northern Iowa, Cedar Falls, IA

Category: Engineering & Technology

Track: Technical

Room: 201C

Presented by the Lost Foam Division

Session Chair: Elodie Thonnard, StyroChem Canada Ltd., Baie-D'urfe, QC, Canada

Use of X-Bead and Inline Hot Air Expanders for Lost Foam Patterns II (18-134)

Melissa Wallum, StyroChem Canada Ltd., Baie-D'urfe, QC, Canada

Category: Molding

Track: Technical

Use of Novel Lost Foam Technology for 9000 lbs. and Beyond for Steel and Other Ultra-Low Carbon Alloys (18-135)

Will Jeffs, Castings Technology International, Rotherham, UK

Category: Molding

Track: Technical

Room: 202B

Presented by the Melting Methods & Materials Division

Session Chair: Scott Stiefvater, ABP Induction LLC, Union Grove, WI

The Twin Chamber Cokeless Furnace for Ferrous Castings at Low Emissions (18-017)

Baha Abulnaga, Maztherm Cokeless Melting Inc., Sumas, WA

Categories: Environmental Health & Safety, Ferrous, Engineering & Technology, Business of Metalcasting

Track: Technical

8:30 – 10 a.m.

Room: 203B

Presented by the Human Resources Division

Session Chair: Brian Lewis, Foundry Educational Foundation, Schaumburg, IL

Panel: Preparing for the Metalcasting Workplace of Tomorrow (18-161)

Kirk Kallio, Waupaca Foundry Inc., Waupaca, WI; David Shouse, Lodge Mfg. Co., South Pittsburg, TN; Teresa Weber, ATEK Metal Technologies, New Hampton, IA, Liz Ulman, Dotson Iron Castings, Mankato, MN

Categories: Business of Metalcasting, Professional Development

Tracks: Management, Student

9:15 - 10:15 a.m.

Room: 202C

Presented by the Copper Division

Session Chairs: Bill Johnson, AY McDonald Mfg. Co., Dubuque, IA; Jim Valentine, Neptune Technology Group Inc., Tallassee, AL

Panel: Core Production and Tooling Design Optimization Using Numerical Core Blowing Simulation (18-127)

Jarek Olszak, Laempe + Reich Corp., Trussville, AL; Mauricio Velazquez Blandino, Magma Foundry Technologies Inc., Schaumburg, IL

Categories: Nonferrous, Molding

Track: Technical

Room: 201C

Presented by the Lost Foam Division

Session Chair: Glover Kerlin, BRP US Inc., Spruce Pine, NC

The Development of Lost Foam Casting in China (18-136)

Guo Peng, Huazhong University of Science & Technology, Wuhan, China

Category: Molding

Track: Technical

3-D Printing of Lost Foam Tooling (18-137)

Marshall Miller, Flowserve, Irving, TX

Categories: Molding, Engineering & Technology

Track: Technical

Room: 202B

Presented by the Melting Methods & Materials Division

Session Chair: Brian Johnson, Hickman Williams & Co., Oak Brook, IL

Panel: U.S. Foundry Coke Suppliers: Sustainable Partners for U.S. Metalcasters (18-122)

David Ailor, American Coke and Coal Chemicals Institute, Washington, D.C.;

David Kasun, Kuttner LLC, Port Washington, WI

Category: Ferrous

Track: Technical

10:30 - 11:30 a.m.

Room: Ballroom C

Keynote Speaker/Honorary Lecture:

Sponsored by the AFS Cast Iron Division

Disaster Recovery – Everyone's Worst Nightmare (18-150)

Jean Bye, Dotson Iron Castings, Mankato, MN

Categories: Ferrous, Engineering & Technology,

Business of Metalcasting

Tracks: Technical, Management, Student, Designer, Buyer

11:30 a.m. - 1 p.m.

Room: 200

Copper Division Luncheon

Ed Brown, North Fort Worth Historical Society, Fort Worth, TX

Ticket Required

1:30 - 3 p.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: Herbert Doty, General Motors, Pontiac, MI

Evolution of Aluminum Cylinder Head Alloys (18-116)

Francis Breton, Rio Tinto, Saguenay, QC, Canada

Category: Nonferrous

Track: Technical

Evaluation of A New High Temperature Cast Aluminum Alloy for Cylinder Head Applications (18-034)

Qigui Wang, Devin Hess, General Motors, Pontiac, MI; Xinyan Yan, Alcoa Technical Center, New Kensington, PA; Francis Caron, Alcoa Technical Center, Deschambault, QC, Canada

Categories: Casting Design & Purchasing, Nonferrous, Engineering & Technology

Tracks: Technical, Designer, Buyer

An Aluminum Casting Alloy for High Performance Engines (18-069)

David Weiss, Eck Industries, Inc., Manitowoc, WI

Categories: Casting Design & Purchasing, Nonferrous, Engineering & Technology

Tracks: Technical, Designer, Buyer

Room: 202A

Presented by the Cast Iron Division

Session Chairs: Matt Meyer, Kohler Co., Kohler, WI; Brandon Reneau, Caterpillar Inc., Mapleton, IL

Solidification Pattern of Silicon Alloyed Ductile Cast Irons (18-022)

Stelian Stan, Julian Riposan, Mihai Chisamera, Politehnica University of Bucharest, Romania, Bucharest; Michael Barstow, Consultant Metallurgist, Napa, CA

Categories: Casting Design & Purchasing, Ferrous

Tracks: Technical, Designer, Buyer

Modelling the Variation of Tensile Properties of High Silicon Ductile Iron (18-040)

Peter Hammersberg, Kenneth Hamberg, Chalmers University of Technology, Göteborg, Sweden; Henrik Borgstrom, Swerea SWECAST AB, Jonkoping, Sweden; Joachim Lindkvist, Volvo Powertrain, Göteborg, Sweden; Lars-Erik Björkegren, LEB Casting Technology, Jönköping, Sweden

Categories: Casting Design & Purchasing, Ferrous, Engineering & Technology

Tracks: Technical, Designer, Buyer

Stop Name Calling - Identify Casting Defects by Appearance to Reduce Scrap (18-067)

Dr. Sudesh Kannan, Co-Power LLC, Schaumburg, IL; Abhishek Pathak, Kautex Textron Inc., Muskegon, MI; Tom Cobett, Tom Cobett and Associates, Strongsville, OH

Categories: Casting Design & Purchasing, Ferrous, Nonferrous, Molding, Engineering & Technology, Business of Metalcasting

Tracks: Technical, Designer, Buyer

Room: 202C

Presented by the Copper Division

Session Chairs: Dan Geyer, Mueller Co., Decatur, IL; Andy Shea, AY McDonald Mfg. Co., Dubuque, IA

Panel: Safety in the Foundry - Tips and Tools for Achieving a Safer Workplace (18-124)

Tom Slavin, Slavin OSH Group LLC, Chicago, IL; Shawn Sexauer, Neenah Foundry Co., Neenah, WI; Ted Schorn, Enkei America Inc., Columbus, IN

Category: Copper

Track: Technical

Room: 202B

Presented by the Melting Methods & Materials Division

Session Chairs: Marc King, Globe Metallurgical Inc., Beverly, Ohio; Jeff Smithberger, Superior Graphite Co., Chicago, IL

Panel: An Update on the Latest Trends in Ferrous Charge Materials (18-121)

Lenny Basaj, Metal Technologies Ravenna Ductile Iron Plant, Ravenna, MI; David Borsuk, Sadoff Iron & Metal Co., Fond du Lac, WI; Gene Holloway, Hickman Williams & Co., Oak Brook, IL; Tim Hogan, National Material Trading, Elk Grove Village, IL

Category: Ferrous

Track: Technical

Pig Iron: A Value-Adding Feedstock for Ferrous Castings (18-045)

Chris Barrington, International Iron Metallics Association, Guildford, UK

Categories: Ferrous, Business of Metalcasting

Track: Technical

1:30 - 4:45 p.m.

Room: 203A

AFS Institute

Virtual Casting Process (18-146)

Bo Wallace, AFS Institute, Schaumburg, IL

Categories: Casting Design & Purchasing, Professional Development

Tracks: Technical, Student, Designer, Buyer

3:15 - 4:45 p.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: Tom Prucha, MetalMorphosis LLC, Rochester Hills, MI

Metallurgical Properties Inside a Tilt Poured Permanent Mold Structural Aluminum AlSi7Mg03 (A356) Casting (18-011)

Franco Chiesa, Quebec Metallurgy Center, Trois-Rivières, QC, Canada; Jeremy Carignan, Centre de Métallurgie du Québec, Trois-Rivières, QC, Canada; David Levasseur, Gheorghe Marin, Quebec Metallurgy Center, Trois-Rivières, QC, Canada; Michel Jutras, Powercast Manufacturing Inc., St-Eustache, QC, Canada

Categories: Nonferrous, Engineering & Technology

Track: Technical

Defining True Production Costs While Meeting Optimal Casting Quality (18-049)

John Hambleton, Magma Foundry Technologies Inc., Schaumburg, IL
Categories: Ferrous, Nonferrous, Engineering & Technology, Business of Metalcasting

Track: Technical

Room: 202A

Presented by the Cast Iron Division

Session Chairs: George Kokos, Caterpillar Inc., Peoria, IL; Andy Adams, Foseco, Cleveland, OH

Panel: Money Saving Ideas/Problems Solved Using Six Sigma (18-143)

Lizeth Medina-Alatorre, Neenah Foundry Co., Neenah, WI; Brandon Reneau, Caterpillar Inc., Mapleton, IL; Roxanna Stein, Waupaca Foundry Inc., Tell City, IN; Joe Renze, John Deere Foundry, Waterloo, IA; Ray Staral, Dura-Bar, Woodstock, IL

Categories: Ferrous, Engineering & Technology

Track: Technical

Room: 203B

Presented by the Marketing Division

Session Chair: Wendy Pilcher, Magma Foundry Technologies Inc., Schaumburg, IL

Branding Yourself: How to Use Social Media to Invent or Reinvent Yourself (18-154)

Erik Deckers, Pro Blog Service, Orlando, FL

Category: Business of Metalcasting

Track: Management

Room: 202B

Presented by the Melting Methods & Materials Division

Session Chair: Steve Heger, Waupaca Foundry Inc., Waupaca, WI

Panel: Channel Induction Refractory Installation, Maintenance and Safety (18-140)

John Walsh, Saint Gobain Ceramics, Worcester, MA; Johnny Hill, Martin Foundry, Dallas, TX; Jack McMillin, Ajax Tocco Magnethermic Corp., Warren, OH; Bill Matarazzo, Inductotherm Corp., Rancocas, NJ; Pat Leper, Saveway USA Corp., North Canton, OH

Category: Ferrous

Track: Technical

Panel Topics:

- Walsh: Inductor Refractory Installation
- Hill: Uppercase Refractory Installation
- McMillin: Channel Furnace Periodic and Preventive Maintenance
- Matarazzo: Channel Furnace Safety
- Leper: Moisture in Refractory

Room: 202C

Presented by the Molding Methods & Materials Division

Session Chairs: Scott Giese, University of Northern Iowa, Cedar Falls, IA; Jay Morrison, Carpenter Brothers Inc., Mequon, WI

What Impact Will 3-D Metal Printing Have on Investment Casting? (18-109)

Tom Mueller, Mueller AMS, New Berlin, WI

Categories: Molding, Business of Metalcasting

Track: Technical

AFS Research: Firing Time/Temperature Effect on Investment Shells Thermos-Mechanical Properties (18-050)

Mingzhi Xu, Missouri University of Science & Technology, Rolla, MO; Joe Govro, MetalTek International, Pevely, MO; Madison Wooley; Scott Vogel, Wayne Pugh, Missouri University of Science and Technology, Rolla, MO

**Categories: Ferrous, Nonferrous, Molding, Engineering & Technology,
Business of Metalcasting**

Track: Technical

6 p.m.

Hilton Fort Worth – Crystal Ballroom – West Promenade

Annual Banquet Reception - Cash Bar

7 p.m.

Hilton Fort Worth – Crystal Ballroom

Annual Banquet

Ticket Required

Wednesday, April 4

7 a.m.

Room 200

Author/Chair Breakfast

7:30 – 9:00 a.m.

Room 204

Women in Metalcasting Breakfast - Invitation Only

8 - 9 a.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: David Weiss, Eck Industries Inc., Manitowoc, WI

MultiMaterial Casting - Practical Foundry Guidelines (18-082)

Carl Soderhjelm, Diran Apelian, Worcester Polytechnic Institute, Worcester, MA

**Categories: Nonferrous, Engineering & Technology,
Business of Metalcasting**

Track: Technical

Creating Knowledge from Big Data in Metal Casting Operations (18-120)

Adam Kopper, Brunswick Corp., Fond du Lac, WI; Ning Sun, Diran Apelian, Worcester Polytechnic Institute, Worcester, MA

**Categories: Nonferrous, Engineering & Technology,
Business of Metalcasting**

Track: Technical

Room: 202C

Presented by the Engineering Division

Session Chair: Greg Bray, Electric Controls & Systems Inc., Birmingham, AL

Integrating your QMS (Quality Management System) with your ERP (Enterprise Resource Planning) System (18-117)

Patrick McCrevan, B&L Information Systems, Inc., Bridgman, MI

Categories: Engineering & Technology, Business of Metalcasting

Track: Technical

Room: 202A

Presented by the Molding Methods & Materials Division

Session Chairs: Matt Calcutt, Rochester Metal Products Corp., Rochester, IN;

Steve Neltner, IMERYS, Cincinnati, OH

Hot Permeability (18-037)

Sam Ramraitan, Prayag Patel, Dariush Moradinezhad, Western Michigan University, Kalamazoo, MI

Categories: Ferrous, Nonferrous, Molding, Engineering & Technology

Track: Technical

AFS Research: Effect of Water Quality on Green Sand Properties (18-009)

Bo Wallace, AFS Institute, Schaumburg, IL; Sairam Ravi, Jerry Thiel, University of Northern Iowa, Cedar Falls, IA

Categories: Ferrous, Nonferrous, Molding

Track: Technical

Room: 202B

AFS Research: New Tools for Casting Design and Simulation Engineers (18-139)

Jiten Shah, Product Development & Analysis LLC, Naperville, IL

Categories: Casting Design & Purchasing, Engineering & Technology

Tracks: Technical, Designer, Buyer

9:15 - 10:15 a.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: Steve Sikorski, Magma Foundry Technologies Inc.,

Schaumburg, IL

AFS Research: Understanding Barium as a Modifier in Al-Si Alloys (18-068)

David Weiss, Eck Industries, Inc., Manitowoc, WI; Thomas Wood, Michigan Technological University, Houghton, MI

Categories: Ferrous, Engineering & Technology

Track: Technical

Influence of Strontium and Aluminum Oxides on Porosity Formation in Al-Si Castings (18-098)

Agnes Samuel, Fawzy Samuel, Université du Québec à Chicoutimi, Chicoutimi-Saguenay, QC, Canada; Herbert Doty, General Motors, Pontiac, MI; Salvador Valtierra Gallardo, Nematik, S.A., Garza Garcia, Mexico

Category: Nonferrous

Track: Technical

Room: 202B

Presented by the Cast Iron Division

Session Chairs: Lizeth Medina-Alatorre, Neenah Foundry Co., Neenah, WI; Greg Miskinis, Waupaca Foundry Inc., Waupaca, WI

AFS Research: Influence of Mn and S on the Microstructure of Cast Iron (18-091)

Richard Gundlach, Element Materials Technology, Wixom, MI

Category: Ferrous

Track: Technical

AFS Research: Influence of Mn-S Balancing on Fatigue Strength in Cast Iron (18-094)

Richard Gundlach, Element Materials Technology, Wixom, MI

Category: Ferrous

Track: Technical

Room: 202C

Presented by the Environmental Health & Safety Division

Session Chair: Michael Lenahan, Fairmount Santrol, Benton Harbor, MI

Panel: EH&S Hot Topics and Washington Update (18-131)

Jeet Radia, McWane Inc., Birmingham, AL; Greg Kramer, ME Elecmetal, Duluth, MN; Jeff Hannapel, The Policy Group, McLean, VA; Stephanie Salmon, AFS Washington Office, Washington, D.C.

Categories: Environmental, Health & Safety

Track: Technical

Room: 202A

Presented by the Molding Methods & Materials Division

Session Chair: Jeff Krause, Mitch Patterson, HA International LLC, Westmont, IL

Silver Anniversary Lecture: Processing of Foundry Sands for Re-Use Within the Foundry - Past, Present and Future (18-141)

Robert Voigt, Penn State University, University Park, PA

Categories: Molding, Engineering & Technology

Track: Technical

Room: 203B

Presented by the Women in Metalcasting Division

Session Chair: Patti Buksa, Laempe + Reich, Trussville, AL

Panel: Work Hardening: How to Overcome Obstacles (18-145)

Sara Timm, Waupaca Foundry Inc., Waupaca, WI; Emily Shedlarski, Mueller Co., Chattanooga, TN; Sandy Calabrese, General Motors, Defiance, OH; Laura Grondin, Virginia Industries Inc., Rocky Hill, CT

Categories: Business of Metalcasting, Professional Development

Tracks: Management, Student

10:30 - 11:30 a.m.
Room: Ballroom C

Keynote Presentation: Hoyt Memorial Lecture

Changing Perceptions: The Need for an "Unbalanced Force" (18-103)
Dan Oman, Haley & Aldrich, Inc., Ann Arbor, MI

Categories: Environmental Health & Safety, Business of Metalcasting
Track: Technical, Management, Student, Designer, Buyer

11:30 a.m. – 1:30 p.m.

Room 204

Division Recognition Luncheon

Ticket required

1:30 - 3 p.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: Randy Oehrlein, Carley Foundry Inc., Blaine, MN

Challenges in the Design and Manufacture of Efficient, Downsized ICE Cylinder Heads (for Future Vehicles) (18-133)

Remi Martinez, Linamar Montupet Light Metal Casting, Livonia, MI

Categories: Casting Design & Purchasing, Nonferrous
Tracks: Technical, Designer, Buyer

Thermal Treatment of Al-Mg-Ce Alloys (18-070)

David Weiss, Eck Industries, Inc., Manitowoc, WI

Categories: Casting Design & Purchasing, Nonferrous, Engineering & Technology, Business of Metalcasting
Tracks: Technical, Designer, Buyer

Effects of Transition Elements and Si Content on the Tensile Properties of an Al-Cu Alloy at Ambient and High Temperature (18-101)

Ahmed Ibrahim, Agnes Samuel, Fawzy Samuel, Université du Québec à Chicoutimi, Chicoutimi-Saguenay, QC, Canada; Herbert Doty, General Motors, Pontiac, MI

Category: Nonferrous

Track: Technical

Room: 202B

Presented by the Cast Iron Division

Session Chairs: Kathy Hayrynen, Applied Process Inc., Livonia, MI; Lizeth Medina-Alatorre, Neenah Foundry Co., Neenah, WI

A Novel Inoculant Promoting a Type A Graphite Structure in Gray Iron While Minimizing Slag Generation in Pouring Boxes (18-043)

Cathrine Hartung, Elkem Foundry Products, Kristiansand, Norway; Matthew Liptak, Elkem Materials Inc., Pittsburgh, PA

Categories: Ferrous, Engineering & Technology, Business of Metalcasting

Track: Technical

Shrinkage Induced Gas Porosity Model for Analysis of Solidification Shrinkage in Castings (18-030)

Sung-Bin Kim, Dong-Hoon Roh, Young-Hoon Yim, AnyCasting Software Co., Ltd., Seoul, South Korea; Doru Stefanescu, University of Alabama and Ohio State University, Dublin, OH

Categories: *Ferrous, Engineering & Technology*

Track: *Technical*

AFS Research: Effect of Non-Metallic Inclusions on Solidification of Inoculated SGI (18-083)

Simon Lekakh, Missouri University Science and Technology, Rolla, MO

Category: *Ferrous*

Track: *Technical*

Room: 202C

Presented by the Environmental Health & Safety Division

Session Chair: Fred Kohloff, Keramida Inc., Indianapolis, IN

Silica Source Reduction - Determining Feasibility (18-130)

Trent Blake, Keramida, Indianapolis, IN

Categories: *Environmental Health & Safety, Business of Metalcasting*

Track: *Technical*

Panel: Understanding and Implementing the New OSHA Silica Rule (18-132)

Tom Slavin, Slavin OSH Group LLC, Chicago, IL; Bob Scholz, TRC Solutions, Brookfield, WI; Fred Simpson, McWane Inc., Birmingham, AL; Stephanie Salmon, AFS Washington Office, Washington, D.C.; Fred Kohloff, Keramida Inc., Indianapolis, IN

Categories: *Environmental Health & Safety*

Track: *Technical*

Room: 203B

Presented by the Marketing Division

Session Chair: Rich Jefferson, Shannon Wetzel, American Foundry Society, Schaumburg, IL

Casting of the Year Case Study from Aristo-Cast (18-155)

Paul Leonard, Aristo-Cast Inc., Almont, MI

Categories: *Casting Design & Purchasing, Nonferrous, Molding*

Tracks: *Management, Designer, Buyer*

Room: 202A

Presented by the Molding Methods & Materials Division

Session Chairs: Jerry Thiel, University of Northern Iowa, Cedar Falls, IA; Brodie Biersner, HA International LLC, Westmont, IL

Panel: AFS Mold Metal Interface Committee – Defects, Coating and Additives (18-128)

Jeff Cieplewski, Prince Minerals LLC, Milwaukee, WI; Jay Morrison, Carpenter Brothers Inc., Mequon, WI; Sam Ramrattan, Western Michigan University, Kalamazoo, MI; Harry Seibel, REFCOTEC Inc., Orrville, OH

Category: *Molding*

Track: *Technical*

Preliminary Investigation and Method to Determine Resin Content For 3-D Sand Printers (18-053)

Kip Woods, University of Northern Iowa, Cedar Falls, IA; Michael Richardson, Sudhir Trikha, HA International, Westmont, IL

Categories: *Ferrous, Nonferrous, Molding, Engineering & Technology, Business of Metalcasting*

Track: *Technical*

1:30 - 4:45 p.m.

Room: 203A

AFS Institute

Identifying the Correct Casting Defect (18-147)

Shelly Dutler, AFS Institute, Schaumburg, IL

Categories: *Casting Design & Purchasing, Professional Development*

Tracks: *Technical, Student, Designer, Buyer*

2 - 4 p.m.

Room: 203C

Presented by the Future Leaders of Metalcasting

Session Chair: Megan Kirsh, Kirsh Foundry Inc., Beaver Dam, WI

Panel: Today's Students, Tomorrow's Future Leaders in Metalcasting (18-148) - Invitation Only

Jeff Cook, Eagle Alloy Inc., Muskegon, MI; Joey Leonard, The H.S. Group Inc., Green Bay, WI; Liz Ulman, Dotson Iron Castings, Mankato, MN; Brandon Kruse, Sinto America, Lansing, MI; Mattie LaPrade, AMERICAN Cast Iron Pipe Company, Birmingham, AL; Aidan King, University of Alabama-Birmingham, Birmingham, AL; Bo Wallace, AFS Institute, Schaumburg, IL; Austin Partin, Purdue University, West Lafayette, IN

Categories: *Business of Metalcasting, Professional Development Management*

Tracks: *Management, Student*

3:15 - 4:45 p.m.

Room: 201C

Presented by the Aluminum Division

Session Chair: Brian Began, Foseco, Cleveland, OH

AFS Research: Influence of Core Variables in Aluminum Semi-Permanent Mold Dimensions (18-077)

Russ Stein, Michigan Technological University, Houghton, MI; Randy Oehrlein, Carley Foundry Inc., Blaine, MN

Categories: *Nonferrous, Molding, Engineering & Technology, Business of Metalcasting*

Track: *Technical*

The Influence of Sand Mold/Core Properties on the Solidification of Aluminum Alloy (18-093)

Sritama Kar, Gregory Sturtz, ASK Chemicals LP, Dublin, OH; Xianping Wang, Ashland Chemicals, Dublin, OH

Category: *Nonferrous*

Track: *Technical*

AFS Research: Analysis of Permanent Mold Distortion in Aluminum Casting (18-138)

Lynn Ferguson, Zhichao Li, Justin Sims, Dante Solutions Inc., Cleveland, OH; David Schwam, Case Western Reserve University, Cleveland, OH; David Neff, Consultant, Willoughby, OH

Category: Nonferrous

Track: Technical

Room: 202B

Presented by the Cast Iron Division

Session Chairs: Andy Adams, Foseco, Cleveland, OH; Kevin McMahon, Elkem Materials Inc., Pittsburgh, PA

A Comparative Study of Crystal Growth in Cast Iron and in Analogous Systems - Part I: Crystallization Mechanisms in Graphite and Analogous Hexagonal and Cubic Systems (18-031)

Doru Stefanescu, University of Alabama and Ohio State University, Dublin, OH; Gorka Alonso, Pello Larrañaga, Esther de la Fuente, Ramon Suarez, IK4-Azterlan, Durango, Bizkaia, Spain

Categories: Ferrous, Engineering & Technology

Track: Technical

A Comparative Study of Crystal Growth in Cast Iron and in Analogous Systems - Part II: Experimental Work on Cast Iron and the Multi-Mechanism Theory of Graphite Crystallization (18-032)

Doru Stefanescu, University of Alabama and Ohio State University, Dublin, OH; Gorka Alonso, Pello Larrañaga, Esther de la Fuente, Ramon Suarez, IK4-Azterlan, Durango, Bizkaia, Spain

Categories: Ferrous, Engineering & Technology

Track: Technical

Room: 202C

Presented by the Engineering Division

Session Chair: Greg Bray, Electric Controls & Systems Inc., Birmingham, AL

Exploit Industrial Internet of Things for Increased Production & Lower Cost (18-081)

James Wiczer, Sensor Synergy Inc., Vernon Hills, IL; Brian Reinke, TDI Energy Solutions, Lemont, IL

Categories: Engineering & Technology, Business of Metalcasting

Track: Technical

Room: 203B

Presented by the Marketing Division

Session Chair: Alexandria Trusov, B&L Information Systems Inc., Bridgman, MI

Think Like a Storyteller: Turning Numbers Into Narrative (18-123)

Kerry Edelstein, Research Narrative, Inc., Los Angeles, CA

Categories: Business of Metalcasting, Professional Development

Track: Management

Room: 202A

Presented by the Molding Methods & Materials Division

Session Chairs: Pete Gravunder, Sara Joyce, Badger Mining Corp., Berlin, WI

Case Study: Reducing Shrinkage in Aluminum Castings Using Thermal Management of PUCB Resin System (18-100)

Brodie Biersner, HA International, Westmont, IL; Sairam Ravi, Scott Giese, University of Northern Iowa, Cedar Falls, IA

Categories: Ferrous, Nonferrous

Track: Technical

Virtual Design of Experiments and Optimization of Core Production (18-046)

Mauricio Velazquez Blandino, Magma Foundry Technologies Inc., Schaumburg, IL; Ingo Wagner, Joerg Sturm, Magma GmbH, Aachen, Germany

Categories: Ferrous, Molding, Engineering & Technology, Business of Metalcasting

Track: Technical

Using Disc-Shaped Specimen Tests to Classify Chemically Bonded Sand Systems (18-035)

Prayag Patel, Lee Wells, Sam Ramrattan, Western Michigan University, Kalamazoo, MI

Categories: Molding, Engineering & Technology

Track: Technical

4:30 – 6 p.m.

Exhibit Floor

Reception With Exhibitors

Thursday, April 5

7 a.m.

Room 202D

Author/Chair Breakfast

9:30 – 10:30 a.m.

Exhibit Floor

Breakfast With Exhibitors

8 - 9 a.m.

Room: 202A

Presented by the Molding Methods & Materials Division

Session Chairs: Jay Zins, Dotson Iron Castings, Mankato, MN; D.J. Couture, General Motors, Saginaw, MI

Sheet Metal Mold Casting (SMMC) Process - A Novel Process for Production of Sand Castings (18-056)

Pravash Maity, Consultant, Jalandhar, Punjab, India

Categories: Nonferrous, Molding, Engineering & Technology, Business of Metalcasting

Track: Technical

Forced Cooling of Semi-Permanent Molds for Fine Grain Ferrous Castings (18-115)

Nick Moroz, Pedro Guillen, Detroit Materials, Wixom, MI; Rish Mitra, ESI-NA, Farmington Hills, MI

Categories: *Casting Design & Purchasing, Nonferrous*

Tracks: *Technical, Designer, Buyer*

Room: 201C

Presented by the Steel Division

Session Chair: Laura Bartlett, Missouri University of Science & Technology, Rolla, MO

Efficiency of Solid Inclusion Removal From the Steel Melt by Ceramic Foam Filter: Design and Experimental Validation (18-048)

Soumava Chakraborty, Ronald O'Malley, Laura Bartlett, Mingzhi Xu, Missouri University of Science & Technology, Rolla, MO

Categories: *Ferrous, Engineering & Technology, Business of Metalcasting*

Track: *Technical*

Influence of Rare Earth Additions on the Structure of HY100 (18-062)

Robert Tuttle, Saginaw Valley State University, University Center, MI

Category: *Ferrous*

Track: *Technical*

8 - 10:15 a.m.

Room: 202B

Presented by the Additive Manufacturing Division

Session Chair: Brandon Lamoncha, Humtown Products, Columbiana, OH

Panel: Additive Manufacturing (18-144)

Marshall Miller, Flowserve, Irving, TX; Travis Frush, University of Northern Iowa, Cedar Falls, IA; Tom Mueller, Mueller AMS, New Berlin, WI; Jiten Shah, Product Development & Analysis LLC, Naperville, IL; Jerry Thiel, University of Northern Iowa, Cedar Falls, IA

Categories: *Casting Design & Purchasing, Molding*

Tracks: *Technical, Designer, Buyer*

Room: 203A

AFS Institute

Creating a Culture of Respect Through Feedback (18-159)

Cindy Maher, Jamie Guite, Leading Edge Coaching & Development, Woodbury, MN

Categories: *Professional Development, Management*

Tracks: *Management, Student, Designer, Buyer*

9:15 - 10:15 a.m.

Room: 201C

Presented by the Steel Division

*Session Chair: Robert Tuttle, Saginaw Valley State University,
University Center, MI*

**Effect of Nonmetallic Inclusions on Impact Toughness in High Strength
Lightweight Steels With Different Sulfur Additions (18-033)**

*Rairu Vaz Penna, Laura Bartlett, Trevor Constance, Missouri University of
Science Technology, Rolla, MO*

**Categories: Casting Design & Purchasing, Ferrous, Engineering &
Technology**

Tracks: Technical, Designer, Buyer

10:30 - 11:30 a.m.

Room: Ballroom C

Keynote Presentation: Economic and Political Update (18-158)

Stephen Moore, Heritage Foundation, Washington, D.C.

Categories: Professional Development

Tracks: Technical, Management, Student, Designer, Buyer

11:30 a.m. – 1:30 p.m.

Room: 204

President's Luncheon & Annual Business Meeting

Ticket required

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American Foundry Society

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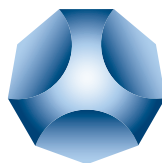
METALCASTING CONGRESS

Featured Exhibitors

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Booth #619

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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Suppliers Exhibitor Booth List Alphabetical

(As of February 16)

A

ABP Induction	511
Advanced Technology International	118
Ajax TOCCO Magnethermic	723
Albarrie Environmental Services	711
Alcoa USA Corp.	818
Al-Fe Heat Treating Inc.	120
Allied Mineral Products	805
American Colloid Company	608
American Foundry Society	517
AMETEK Foundry Products	312
Anderson Global	317
Angstrom Inc.	611
AnyCasting Software Co., LTD	311
Applied Process Inc.	812
ASCO Carbon Dioxide Inc.	825
ASK Chemicals	205
ATD Engineering & Machine	508
ATS Applied Tech Systems LLC	113

B

B&L Information Systems	323
Badger Mining Corporation	916
Blast Cleaning Technologies	710
Bosello High Technology	429

Brokk Inc.	336
Bruker Corporation	438

C

Capital Refractories Inc.	432
CARBO Industrial Technologies	305
Carrier Vibrating Equipment, Inc.	204
Champion Chisel Works Inc.	807
CMH Manufacturing Company	233
Cool-Off LLC	137
Curimbaba Group	435

D

Del Sol Industrial Services, Inc.	102
DIDION International Inc.	413
DISA	910
Ductile Iron Society	538
DustMASTER Enviro Systems	918

E

Eccomelt LLC	902
Electric Controls & Systems Inc.	625
Electro Abrasives LLC	435

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web, www.didion.com



Elementar Americas	218	Hunter Foundry	
Elkem Foundry Products	713	Machinery Corp.	203
Empire Systems Inc.	103		
EMSCO Inc.	908		
Engis Corporation	225	I	
Equipment Manufacturers Int'l	229	IMERYS	822
ERIEZ	217	Impact NDT LLC	536
ETA Engineering Inc.	513	Induction Iron Inc.	719
ExOne	703	Inductotherm Corp.	208
Exotic Automation & Supply	235	Innovative Analytical	
EZG Manufacturing	212	Solutions LLC	510
		International Thermal	
		Systems	124
		Italpresse Gauss	910
		ITOCHU Ceratech Corp.	924
F		J	
Fairmount Santrol	505	Joest Inc.	228
FATA Aluminum LLC	313	Joy-Mark Inc.	810
FEF	223	Junker Inc.	230
Finite Solutions Inc.	100		
Flexovit USA Inc.	322	K	
Flow Science	708	King Tester Corporation	904
Foseco	222	Kittyhawk Products	819
Foundry Solutions & Design	303	Kodiak Group	412
Foundry Solutions		Kuttner LLC	324
Metallurgical Services Inc.	111		
		L	
G		Laempe Reich Corporation	503
General Kinematics	808	Larpen Metallurgical Service	109
Gibson Centri Tech Limited	239	LECO Corporation	308
Goff Inc.	411	Lindberg/MPH	216
Gradient Lens Corporation	319		
Green Packaging Inc.	813	M	
Greensand Controls Inc.	820	Magaldi Technologies LLC	342
Guardian Software Systems	603	MAGMA Foundry	
		Technologies Inc.	409
H		Matrix Sensors LLC	913
HA-International LLC	405	Maztherm Cokeless	
HarbisonWalker International	119	Melting Inc.	122
Henschel Andromat Inc.	803	Midvale Industries	337
Heraeus Electro-Nite	334	Miller and Company	121
Hickman, Williams		Modern Equipment Company	123
& Company	329	Morgan Advanced Materials	613
Hitachi High-Tech		MPM Infosoft Pvt. Ltd.	202
Analytical Science	331		
Hi-Vac Corporation	335		
Hoosier Pattern	809		
Houghton International	610		
Humtown Products	609		

122nd
METALCASTING
CONGRESS
**BOOTH
#211**

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N

Non-Ferrous Founders' Society	318
NorthStar Products	920
Norton/Saint-Gobain Abrasives	206
NovaCast Solutions USA Inc.	816
Nutec Bickley	434

O

OmniSource	534
------------	-----

P

Palmer Manufacturing & Supply Inc.	231
Pangborn Group	333
Perfect Patterns	428
Peter E. Macler Associates PLLC	901
Pillar Induction	721
Prince International Corporation	104
Profound Alloys	132
PureFlo	139

Q

Quad City Safety	131
------------------	-----

R

REFCOTEC Inc.	408
Refractory & Insulation Supply Inc.	410
Rex Heat Treat Alabama Inc.	909
Richardson Manufacturing Company	140
Rimrock Corporation	221
RJ Lee Group	542

S

Saint-Gobain Ceramics	238
Saveway USA	823
Schust Engineering Inc.	717
SELEE Corporation	126
Shandong Jingang New Materials Co. Ltd.	906

Simpson Technologies Corporation	605
Sintex Minerals & Services Inc.	435
Sinto	617
solidThinking	712
Southeastern Foundry Products & Foundry Coatings	817
Spectro Alloys	236
SPECTRO Analytical Instruments	128
Springer Nature Publishers	332
StrikoWestofen	910
Superior Graphite Co.	310
Synchro ERP Ltd.	403

T

TDJ Group Inc.	907
TeeMark Manufacturing Inc.	219
TEMC Metal & Chemical Corp.	107
The HILL and GRIFFITH Co.	209
The Schaefer Group Inc.	922
Thermo Fisher Scientific	330
Thermtronix Corporation	316
THORS LLC	220
Tinker Omega Mfg LLC	512
Top Cat Air Tools	430
Transmet Corporation	903
Triple M Metal LP	911

U

Ultraseal America Inc.	528
U-Metco Inc.	821
Unimin Corp.	612
United Refractories Co.	328

V

Verder Scientific	211
Versevo Inc.	623
Viking Blast & Wash Systems	116
Viking Technologies	705
Viridis3D	125
Voxeljet America Inc.	237
Vulcan Engineering Co.	619

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Y

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Z

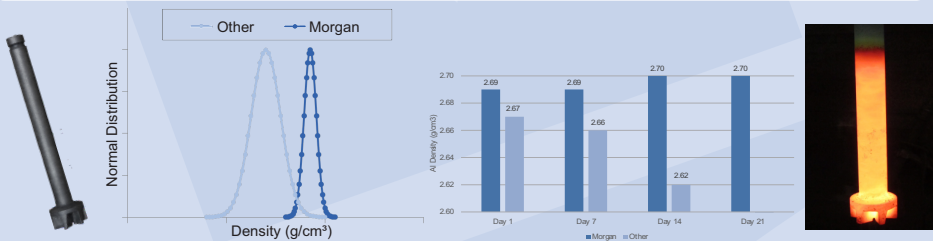
ZEISS Industrial Metrology 105

Zerust Corrosion Solutions 117



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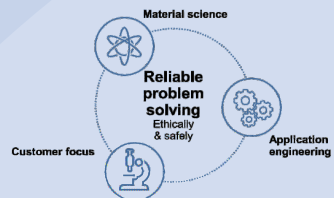
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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Suppliers Exhibitor Booth List Product Category

(As of February 16)

Alloys/Materials

Aluminum

Advanced Technology International	118
Alcoa USA Corp.	818
ATD Engineering & Machine	508
Bruker Corporation	438
Eccomelt LLC	902
ExOne	703
Foundry Solutions Metallurgical Services Inc.	111
OmniSource	534
Peter E. Macler Associates PLLC	901
SELEE Corporation	126
Spectro Alloys	236
The HILL and GRIFFITH Co.	209
Thermo Fisher Scientific	330
Thermtronix Corporation	316
Transmet Corporation	903
Viking Technologies	705
YXLON	129

Hitachi High-Tech Analytical Science	331
OmniSource	534
Spectro Alloys	236
Thermo Fisher Scientific	330
Viking Technologies	705

Iron

Allied Mineral Products	805
ATD Engineering & Machine	508
Bruker Corporation	438
Elkem Foundry Products	713
Engis Corporation	225
ExOne	703
Foundry Solutions Metallurgical Services Inc.	111
HA-International LLC	405
Junker Inc.	230
Larpen Metallurgical Service	109
Maztherm Cokeless Melting Inc.	122
Midvale Industries	337
Miller and Company	121
OmniSource	534

Copper-Base

Bruker Corporation	438
--------------------	-----

Peter E. Macler Associates PLLC	901	Miller and Company	121
SELEE Corporation	126	OmniSource	534
The HILL and GRIFFITH Co.	209	Peter E. Macler Associates PLLC	901
Thermo Fisher Scientific	330	Thermo Fisher Scientific	330
Viking Technologies	705	Triple M Metal LP	911
YXLON	129	U-Metco Inc.	821

Magnesium

Bruker Corporation	438
Miller and Company	121
Spectro Alloys	236
Thermtronix Corporation	316
Viking Technologies	705
YXLON	129

Steel

Bruker Corporation	438
ExOne	703
Hitachi High-Tech Analytical Science	331
Larpen Metallurgical Service	109
Maztherm Cokeless Melting Inc.	122

Superalloys

Thermo Fisher Scientific	330
--------------------------	-----

Zinc

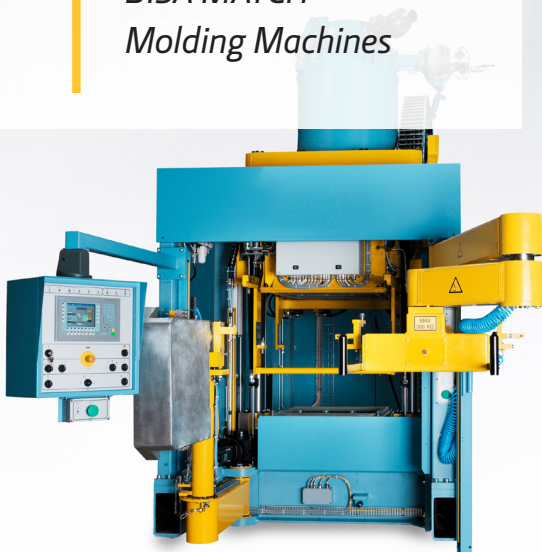
Spectro Alloys	236
Thermtronix Corporation	316
Transmet Corporation	903

Engineering/Capital Equipment

Casting Design

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ASK Chemicals	205

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DIDION International Inc.	413	Finite Solutions Inc.	100
Finite Solutions Inc.	100	Foundry Solutions & Design	303
Gibson Centri Tech Limited	239	General Kinematics	808
HA-International LLC	405	Gibson Centri Tech Limited	239
Joy-Mark Inc.	810	Hoosier Pattern	809
SELEE Corporation	126	Joest Inc.	228
YXLON	129	Joy-Mark Inc.	810

Cleaning, Finishing & Shipping

Albarrie Environmental Services	711	Magaldi Technologies LLC	342
Blast Cleaning Technologies	710	Maztherm Cokeless Melting Inc.	122
Brokk Inc.	336	Modern Equipment Company	123
Carrier Vibrating Equipment, Inc.	204	Norton/Saint-Gobain Abrasives	206
Champion Chisel Works Inc.	807	Palmer Manufacturing & Supply Inc.	231
Del Sol Industrial Services, Inc.	102	Perfect Patterns	428
DIDION International Inc.	413	Peter E. Macler Associates PLLC	901
Engis Corporation	225	Saint-Gobain Ceramics	238
General Kinematics	808	Schust Engineering Inc.	717
Green Packaging Inc.	813	SELEE Corporation	126
Henschel Andromat Inc.	803	Simpson Technologies Corporation	605
LaempeReich Corporation	503	Sinto	617
Midvale Industries	337	TeeMark Manufacturing Inc.	219
NorthStar Products	920	Tinker Omega Mfg LLC	512
Rimrock Corporation	221	Vulcan Engineering Co.	619
Sinto	617		
Top Cat Air Tools	430		
Transmet Corporation	903		
Ultraseal America Inc.	528		
Zerust Corrosion Solutions	117		

Engineering

Advanced Technology International	118
Ajax TOCCO Magnethermic	723
Allied Mineral Products	805
AnyCasting Software Co, LTD	311
Brokk Inc.	336
CMH Manufacturing Company	233
Del Sol Industrial Services, Inc.	102
Electric Controls & Systems Inc.	625
Empire Systems Inc.	103
Engis Corporation	225
ERIEZ	217
ETA Engineering Inc.	513

Environmental, Health and Safety

Albarrie Environmental Services	711
Brokk Inc.	336
Cool-Off LLC	137
DustMASTER Enviro Systems	918
Electric Controls & Systems Inc.	625
Engis Corporation	225
ETA Engineering Inc.	513
Foundry Solutions & Design	303
Green Packaging Inc.	813
Kuttner LLC	324
Midvale Industries	337
Peter E. Macler Associates PLLC	901
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Schust Engineering Inc.	717
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Heat Treatment

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International Thermal Systems	124
Lindberg/MPH	216
Nutec Bickley	434
Saint-Gobain Ceramics	238
Verder Scientific	211

Investment Casting

Equipment & Accessories

Ajax TOCCO Magnethermic	723
Elementar Americas	218
International Thermal Systems	124
Magaldi Technologies LLC	342
Norton/Saint-Gobain Abrasives	206
Nutec Bickley	434
Pillar Induction	721
TeeMark Manufacturing Inc.	219
Vulcan Engineering Co.	619
Zerust Corrosion Solutions	117

Maintenance

Ajax TOCCO Magnethermic	723
Albarrie Environmental Services	711
Allied Mineral Products	805
Blast Cleaning Technologies	710
Brokk Inc.	336
Champion Chisel Works Inc.	807
CMH Manufacturing Company	233
ERIEZ	217
ETA Engineering Inc.	513
Flexovit USA Inc.	322
Green Packaging Inc.	813
International Thermal Systems	124
Matrix Sensors LLC	913
Midvale Industries	337
NorthStar Products	920
Quad City Safety	131
Saint-Gobain Ceramics	238
Schust Engineering Inc.	717
Simpson Technologies Corporation	605
Sinto	617
TeeMark Manufacturing Inc.	219

Tinker Omega Mfg LLC	512
Top Cat Air Tools	430
Vulcan Engineering Co.	619

Patternmaking & Tooling

Hoosier Pattern	809
Humtown Products	609
Joy-Mark Inc.	810
Perfect Patterns	428
Vulcan Engineering Co.	619

Permanent Mold Equipment & Accessories

CMH Manufacturing Company	233
ERIEZ	217
Vulcan Engineering Co.	619

Software

AnyCasting Software Co., LTD	311
ATS Applied Tech Systems LLC	113
B&L Information Systems	323
Finite Solutions Inc.	100
Flow Science	708
Guardian Software Systems	603
MPM Infsoft Pvt. Ltd.	202
NovaCast Solutions USA Inc.	816
solidThinking	712

Value-Added Services (Machining, Painting, Assembly, etc.)

Al-Fe Heat Treating Inc.	120
Applied Process Inc.	812
ASCO Carbon Dioxide Inc.	825
ASK Chemicals	205
Blast Cleaning Technologies	710
Brokk Inc.	336
Cool-Off LLC	137
Perfect Patterns	428
Rex Heat Treat Alabama Inc.	909
Richardson Manufacturing Company	140
Rimrock Corporation	221

Simpson Technologies Corporation	605	SPECTRO Analytical Instruments	128
Springer Nature Publishers	332	The HILL and GRIFFITH Co.	209
Ultraseal America Inc.	528	Verder Scientific	211
ZEISS Industrial Metrology	105	YXLON	129
Zerust Corrosion Solutions	117	ZEISS Industrial Metrology	105

Melting/Melting Quality

Casting Quality & Testing

Advanced Technology International	118
Angstrom Inc.	611
ASK Chemicals	205
Elementar Americas	218
Gradient Lens Corporation	319
Hitachi High-Tech Analytical Science	331
Innovative Analytical Solutions LLC	510
King Tester Corporation	904
SELEE Corporation	126

Ferrous Melt Quality

Angstrom Inc.	611
Elkem Foundry Products	713
Heraeus Electro-Nite	334
Innovative Analytical Solutions LLC	510
Matrix Sensors LLC	913
NovaCast Solutions USA Inc.	816
SPECTRO Analytical Instruments	128
U-Metco Inc.	821
Verder Scientific	211

Ferrous Melting

ABP Induction	511
Allied Mineral Products	805



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Capital Refractories Inc.	432	Inductotherm Corp.	208
Electric Controls & Systems Inc.	625	Junker Inc.	230
Heraeus Electro-Nite	334	Larpen Metallurgical Service	109
Inductotherm Corp.	208	Lindberg/MPH	216
Junker Inc.	230	Matrix Sensors LLC	913
Larpen Metallurgical Service	109	Modern Equipment Company	123
Matrix Sensors LLC	913	Morgan Advanced Materials	613
Maztherm Cokeless Melting Inc.	122	Pillar Induction	721
Miller and Company	121	Saint-Gobain Ceramics	238
Pillar Induction	721	Triple M Metal LP	911
Saint-Gobain Ceramics	238	United Refractories Co.	328
Triple M Metal LP	911		
United Refractories Co.	328		

Ferrous Pouring

ABP Induction	511
Capital Refractories Inc.	432
Heraeus Electro-Nite	334
Inductotherm Corp.	208
Junker Inc.	230
Larpen Metallurgical Service	109
Miller and Company	121
Morgan Advanced Materials	613
Pillar Induction	721
TeeMark Manufacturing Inc.	219
Viking Technologies	705

Nonferrous Melt Quality

Angstrom Inc.	611
Foundry Solutions Metallurgical Services Inc.	111
Heraeus Electro-Nite	334
Innovative Analytical Solutions LLC	510
Matrix Sensors LLC	913
SPECTRO Analytical Instruments	128
Thermtronix Corporation	316
Verder Scientific	211

Nonferrous Melting

ABP Induction	511
Allied Mineral Products	805
Capital Refractories Inc.	432
Heraeus Electro-Nite	334

Nonferrous Pouring

ABP Induction	511
Capital Refractories Inc.	432
Inductotherm Corp.	208
Junker Inc.	230
Lindberg/MPH	216
Morgan Advanced Materials	613
Pillar Induction	721
Rimrock Corporation	221
TeeMark Manufacturing Inc.	219

Molding Processes

Centrifugal

Gibson Centri Tech Limited	239
----------------------------	-----

Chemically-Bound Sand

ASK Chemicals	205
CARBO Industrial Technologies	305
Del Sol Industrial Services, Inc.	102
DIDION International Inc.	413
Equipment Manufacturers Int'l	229
HA-International LLC	405
Humtown Products	609
Joy-Mark Inc.	810
Palmer Manufacturing & Supply Inc.	231
Sinto	617
Southeastern Foundry Products & Foundry Coatings	817
Tinker Omega Mfg LLC	512
Unimin Corp.	612
Viking Technologies	705

Continuous

Advanced Technology International	118
Magaldi Technologies LLC	342

Diecasting

Alcoa USA Corp	818
AnyCasting Software Co., LTD	311
Exotic Automation & Supply	235
Rimrock Corporation	221
Southeastern Foundry Products & Foundry Coatings	817
Spectro Alloys	236
The HILL and GRIFFITH Co.	209
Versevo Inc.	623
Viking Technologies	705

Green Sand

Alcoa USA Corp.	818
American Colloid Company	608
CARBO Industrial Technologies	305
Curimbaba Group	435
DIDION International Inc.	413
Electro Abrasives LLC	435
Empire Systems Inc.	103
Equipment Manufacturers Int'l Foundry Solutions Metallurgical Services Inc.	111
HA-International LLC	405
IMERYS	822
Joy-Mark Inc.	810
Magaldi Technologies LLC	342
Midvale Industries	337
Sintex Minerals & Services Inc.	435
Sinto	617
The HILL and GRIFFITH Co.	209
Unimin Corp.	612
Versevo Inc.	623
Viking Technologies	705

Investment

AnyCasting Software Co., LTD	311
CARBO Industrial Technologies	305
ExOne	703
Unimin Corp.	612
Versevo Inc.	623

Lost Foam

CARBO Industrial Technologies	305
Southeastern Foundry Products & Foundry Coatings	817
Unimin Corp.	612
Versevo Inc.	623

Permanent Mold

Alcoa USA Corp.	818
ATD Engineering & Machine	508
Perfect Patterns	428
Rimrock Corporation	221
Southeastern Foundry Products & Foundry Coatings	817
Versevo Inc.	623
Viking Technologies	705

Vacuum Processes

(sand or metal mold)

AnyCasting Software Co., LTD	311
ATD Engineering & Machine	508
CARBO Industrial Technologies	305
Sinto	617

Sand Mold/Core Making

Coremaking

ATD Engineering & Machine	508
Curimbaba Group	435
Electro Abrasives LLC	435
Equipment Manufacturers Int'l	229
Exotic Automation & Supply	235
Fairmount Santrol	505
HA-International LLC	405
Hoosier Pattern	809
Humtown Products	609
ITOCHU Ceratech Corp.	924
LaempeReich Corporation	503
Palmer Manufacturing & Supply Inc.	231
Perfect Patterns	428
Sintex Minerals & Services Inc.	435
Sinto	617



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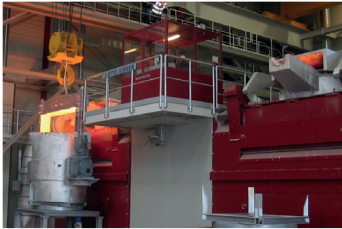
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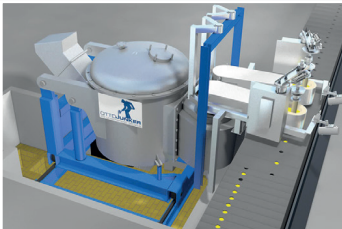
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Unimin Corp.	612	Southeastern Foundry Products & Foundry Coatings	817
Viridis3D	125	Tinker Omega Mfg. LLC	512
		Verder Scientific	211

Rapid Prototyping

Advanced Technology International	118
Del Sol Industrial Services, Inc.	102
ExOne	703
Exotic Automation & Supply	235
Hoosier Pattern	809
Humtown Products	609
Palmer Manufacturing & Supply Inc.	231
Tinker Omega Mfg. LLC	512
Viridis3D	125

Sand Molding Equipment

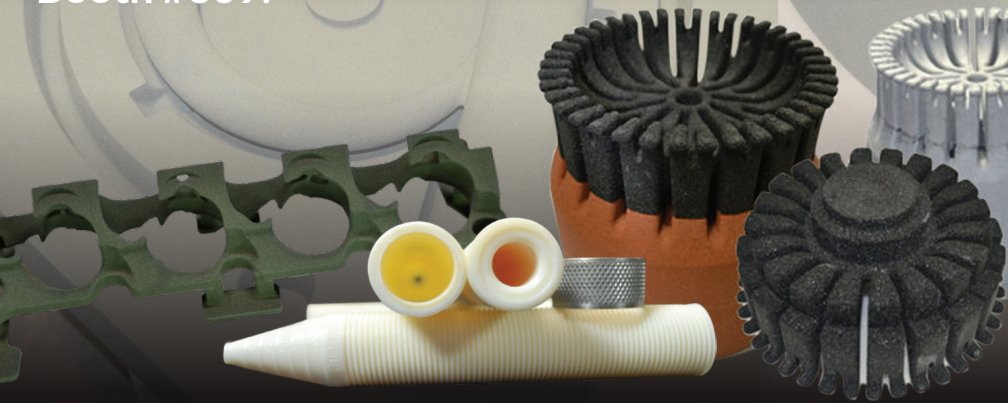
Del Sol Industrial Services, Inc.	102
DIDION International Inc.	413
Electric Controls & Systems Inc.	625
Empire Systems Inc.	103
Equipment Manufacturers Int'l	229
Exotic Automation & Supply	235
LaempeReich Corporation	503
Magaldi Technologies LLC	342
Palmer Manufacturing & Supply Inc.	231
Sinto	617
Tinker Omega Mfg. LLC	512
Viridis3D	125

Sand Preparation & Testing

American Colloid Company	608
ASK Chemicals	205
Carrier Vibrating Equipment, Inc.	204
Electric Controls & Systems Inc.	625
Exotic Automation & Supply	235
Fairmount Santrol	505
Foundry Solutions Metallurgical Services Inc.	111
Hoosier Pattern	809
ITOCHU Ceratech Corp.	924
Shandong Jingang New Materials Co. Ltd.	906
Simpson Technologies Corporation	605
Sinto	617

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Alcoa is a pioneer in new alloy production and has developed a number of aluminum casting alloys to deliver robust weight reduction for all types of vehicles. These materials support the future vehicle that may be powered by a more efficient IC engine, an electrified hybrid engine or a fully electric vehicle. There are two technical papers presented at this show on the new 351 SupraCast alloy for engine cylinder heads and blocks. Stop by Booth 818 to discuss this alloy, along with

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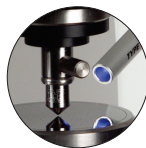
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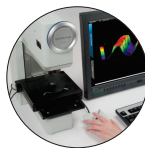
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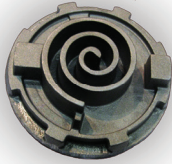
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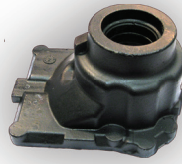
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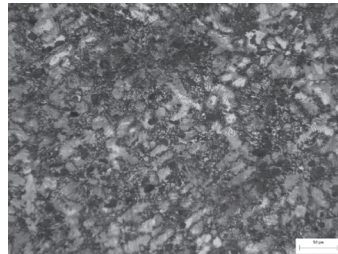
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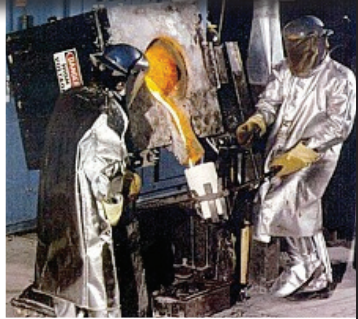
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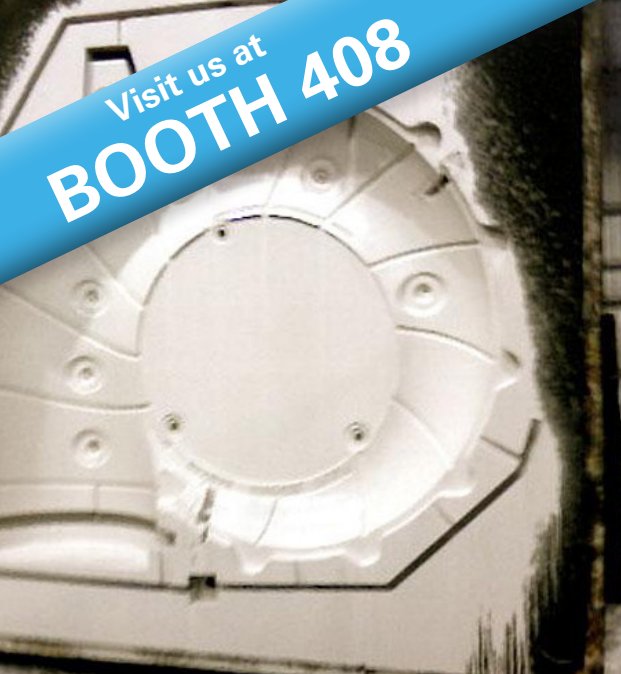


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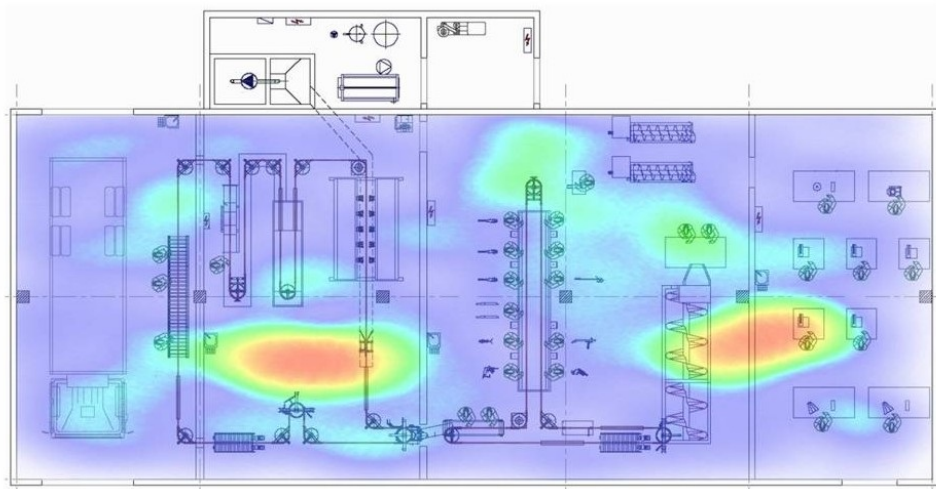
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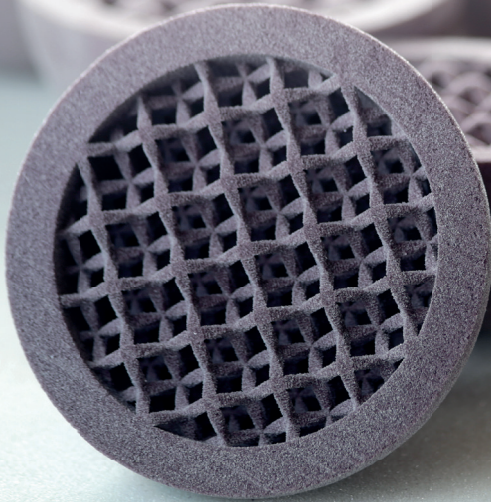
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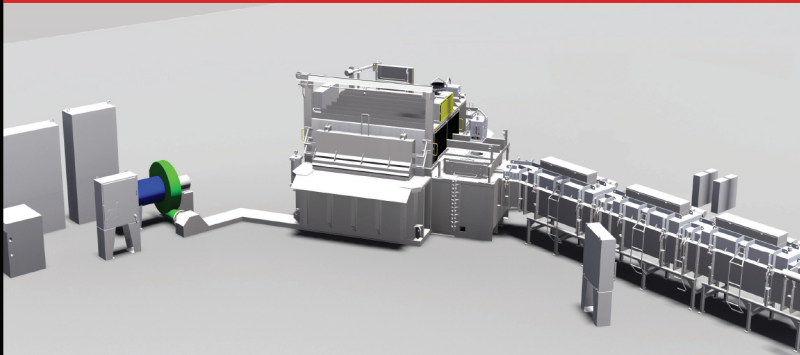
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solidThinking employs a relentless focus on delivering innovative technology with a streamlined user experience. Its tools empower users and organizations to make informed decisions and design, engineer, manufacture, and deliver amazing products to market faster than ever before. solidThinking's tools are sold and supported through a global network of industry and domain experts. solidThinking is a wholly owned subsidiary of Altair, where its products are also available through the Altair HyperWorks suite. Click2Cast is a fast, easy, accurate and affordable casting simulation environment focused on creating high-quality components with increased profitability through a highly intuitive user experience catering to beginners and experts alike. Users are able to avoid typical casting defects such as air entrapment, shrinkage porosity, cold shuts, mold degradation and more by using Click2Cast.

Southeastern Foundry Products & Foundry Coatings

Booth 817

42 Longview Cir.

Alabaster, AL 35007

205-620-0146

sefp.net

Spectro Alloys

Booth 236

13220 Doyle Path E

Rosemount, MN 55068

651-437-2815

spectroalloys.com

Spectro Alloys is a secondary aluminum smelter who also offers primary aluminum alloys, zinc, brass, bronze and master alloys. At Spectro Alloys, we don't just sell aluminum, we provide solid sourcing solutions. Our market knowledge can help you save money and gain an edge over your competition. We ship from Canada to Mexico, one bundle to one truckload. We offer metallurgical spectrometer testing as a service to our customers.

SPECTRO Analytical Instruments

Booth 128

91 McKee Dr.

Mahwah, NJ 07430

201-642-3000

spectro.com

A Division of AMETEK, SPECTRO is a global leader in the design and manufacturing of elemental analysis instrumentation. SPECTRO offers a complete line of stationary and mobile OES spectrometers to handle any size workload for metal analysis. A full line of handheld XRF instruments are also offered along with ICP-OES and EDXRF. The SPECTRO-LAB and SPECTROMAXx series of OES stationary spectrometers are the standard in the industry and set high expectations for performance, reliability and customer support. Our handheld XRF

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Superior Graphite Co.

Booth 310
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Chicago, IL 60606
312-466-2876
superiorgraphite.com

Innovating since 1917, Superior Graphite offers a range of non-oxide ceramics, using continuous synthesis to produce a domestic source of beta-silicon carbide, and processing of custom alpha-silicon carbide and boron

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Synchro ERP Ltd.

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BM Synchro ERP Ltd
London WC1N 3XX
United Kingdom
800-323-2808
synchroerp.com

TDJ Group Inc.

Booth 907
18-6 E. Dundee Rd.
Barrington, IL 60010
847-639-1113
blastox.com

TeeMark Manufacturing Inc.

Booth 219
1132 Air Park Dr.
Aitkin, MN 56431
218-927-2200
teemarkmfg.com

TeeMark Manufacturing, headquartered in Aitkin, MN, maintains an operating division known as D&E Foundry Ladles. TeeMark also manufactures various industrial-use foundry ladles, accessories, and turns out a high volume of custom foundry ladles. In addition, TeeMark manufactures paint can, aerosol can, and drum crusher/packer equipment with compaction ratios up to 18:1. Today, TeeMark Manufacturing holds its ground as a recognized world leader in the areas of foundry ladle production, waste compaction, waste volume reduc-

tion and pre-recycling processing. As a manufacturing company, we provide a complete line of innovative technology and equipment, advancing waste reduction, pre-recycling processes and foundry ladle development on national and international levels.

TEMC Metal & Chemical Corp.

Booth 107
2F-3 No 6 Alley 25, Ln. 113, Sec 3
MIng Shang E Rd.
Taipai
Taiwan
866-2 2718-9709
temc.com.tw

The HILL and GRIFFITH Co.

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Cincinnati, OH 45204
513-921-1075
hillandgriffith.com

The Schaefer Group Inc.

Booth 922
1300 Grange Hall Rd.
Dayton, OH 45430
937-253-3342
theschafergroup.com

The Schaefer Group, Inc. (SGI) designs, builds and installs world-class aluminum melting and holding furnaces, and molten aluminum delivery systems. They are known for: interconnected system of aluminum furnaces designed for safe, high-quality, non-turbulent molten aluminum transfer; on-line continuous molten aluminum degassing and filtration; "in-cell" electric melting and holding furnaces; ultra-

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Thermtronix Corporation

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17129 Muskrat Ave.
Adelanto, CA 92301
877-387-6223
thermtronix.com

THORS LLC

Booth 220
5054 Paramount Blvd.
Medina, OH 44256
330-576-4448
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Tinker Omega Mfg. LLC

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Springfield, OH 45503
937-322-2272
tinkeromega.com

Tinker Omega continues to be the leader of chemically-bonded sand innovation with the further development of our NexGen2 Mixer Controls, our RMS-02 Robotic Sand Milling System and our 3DSP Sand Printer. The NexGen2 provides every customer with functions not available as standard on any other mixer. This then combines with Smart Sand Gates, the SG Sand Flow Meter, Flo-Master Metering and RFID Recipe Selection to provide the most technically advanced sand mixer available. The RMS-02 Robotic Milling System provides a cost-effective alternative for the production of patternless castings. Combined with the 3DSP Printer, a customer has the most efficient option for tooling free casting production. Our 3DSP Sand Printer, first unveiled at CastExpo in Minneapolis, is in

the ALPHA stage of development with the target delivery of the Beta Unit this fall. Tinker Omega combines our technical progress with superior customer support to further our goal of being the preferred supplier of chemically bonded sand equipment.

Top Cat Air Tools

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440-954-7500
tcservice.com

The Top Cat brand of pneumatic power tools are proudly made in Willoughby, OH, USA. We offer a wide range of material removal and surface conditioning tools for applications in heavy industries. We serve industries such as steel, iron and aluminum foundries as well as heavy and light steel fabricators. Our products include grinders, sanders and percussive tools in various forms (vertical, horizontal, extended, right angle and die grinders). We offer many specialized versions of tools that increase performance and durability. Our industrial tools help companies increase production and reduce operator strain by optimizing the material removal operation.

Transmet Corporation

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transmet.com

Transmet is the leading manufacturer and supplier of high durability, long-lasting shot blasting media. Cast zinc shot, cast aluminum shot, and stainless steel grit all outlast alternatives and significantly reduce damage to blast equipment. Learn more about blasting applications at transmet.com.

Triple M Metal LP

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Ultraseal America Inc.

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4343 Concourse Dr.
Suite 340
Ann Arbor, MI 48108
734-945-7210
ultrasealamerica.com

U-Metco Inc.

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8651 E. Seven Mile Rd.
Detroit, MI 48234
313-550-3309
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Unimin Corp.

Booth 612
258 Elm St.
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unimin.com

Unimin Corporation is a member of the Sibelco Group with more than 30 plants located across North America. INCAST core and molding grades range from GFN 25 for lost foam backing to 80 GFN for 3-D printing. Characterized by their low total surface area and uniform particle size distribution, these custom blended sands provide foundries with the ideal physical properties to maximize tensile strength while reducing resin demand, catalysts, and additives. Unimin has created one of the largest mineral research organizations that provide state-of-the-art mine planning, geology and mineralogy oversight that ensures our plants provide consistent, quality products to our customers. Unimin's analytical services centers, located across North America, are committed to basic and applied research, including green and chemically bonded sand testing and analysis for our foundry customers. Many of our team members come from the foundry industry. They can provide our customers with trouble-shooting capabilities to tailor solutions to help solve specific molding and casting challenges. With plants dedicated to industrial and foundry sand production, Unimin provides consistent and reliable sand supplies to our customers. We have an extensive distributor network, making our representatives readily available to you.

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Monolithic refractories for metalcasting, minerals processing, power generation and petrochemical industries. United Refractories Company (URC) designs innovative, durable refractories focusing on customer specific needs and applications. Our technically driven products manufactured at our UNI-REF, Inc. (URI) facility include our UNI-RAM VR dry vibratables for induction furnaces and our cutting-edge cupola products, to Rapid Fire, accelerated dry-out technology, and UNI-SHOT/UNI-BRADE abrasion resistant refractory products. URC provides unparalleled value. Outstanding quality, proven technology and customer focused service for 40 years.

Verder Scientific

Booth 211
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267-757-0351, ext. 121
verder-scientific.com

Verder Scientific Inc., comprised of the Retsch, Carbolite Gero, and ELTRA brands, sets the standard in high-tech scientific equipment serving research institutions, analytical laboratories as well as manufacturing companies for decades. The company manufactures and supplies instruments for sample preparation, elemental analysis as well as heat treatment of solid materials.

Versevo Inc.

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versevo.com

Viking Blast & Wash Systems

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731 S. Industrial Ct.
Rose Hill, KS 67133
316-634-6699
vikingcorporation.com

Viking Technologies

Booth 705
25169 Dequindre Rd.
Madison Heights, MI 48071
586-914-0819
viking-technologies.com

Viking Technologies, part of the pourTECH Group, is the manufacturer of the "pourTECH" System in North and South America. PourTECH is known worldwide for the elimination of short and over-pouring associated with manual and semi-manual pouring – increasing mold rates and quality. PourTECH is a laser-controlled pouring system. With experience from over 450 successful installations of laser-based pouring systems, the pourTECH group is the leading provider of complete pouring systems and custom upgrades for existing pouring systems. The "Crocodile" is a scrap and sprue crusher from Yuatsuki with crushing capacities up to 20 tons/hr gray, 15 tons/hr ductile iron and 4.5 tons/hr aluminum. It saves energy during melting and increases the throughput of the melt center. The Crocodile has been installed in over 250 installations and Yuatsuki has a

reputation of providing a solid machine with low maintenance requirements. Viking provides automatic in-stream inoculation systems (Euro-Equip) and non-contact pyrometers (KELLER).

Viridis3D

Booth 125
10 Roessler Rd.
Woburn, MA 01801
313-801-5555
viridis3d.com

The robotic additive manufacturing systems from EnvisionTEC and Viridis3D are the fastest, most flexible robotic 3-D printing options in the foundry and 3-D printing industries today. Using a patent-pending technology, a proprietary print head attached to an ABB robot arm uses exclusive binder jetting technology to print sand molds, mold cores and investment casting patterns for foundry applications. The proprietary systems include easy-to-use Viriprint software that uses a CAD file to print a mold and core in just a few hours. A variety of build envelopes are now offered. The RAM 123 prints pieces up to 1' x 2' x 3', with a RAM 224 (2' x 2' x 4'), RAM 236 (2' x 3' x 6'), and RAM 336 (3' x 3' x 6') now available. Viridis3D can also develop custom solutions with this scalable solution. This disruptive technology brings a new way of production to foundries – instead of shipping castings around the world, raw materials are shipped and files are simply transmitted to 3-D printers in strategic locations. The result is castings are poured the same day, only where you need them.

voxeljet America Inc.

Booth 237
41430 Haggerty Cir. S.
Canton, MI 48188
734-808-0025
voxeljet.com

voxeljet is a leading manufacturer of 3-D printing systems for industrial applications and is specialized on powder-binder-jetting of plastic and sand. With additive manufacturing we would like to ensure that our customers receive maximum efficiency and profitability by using innovative technology and comprehensive know-how in additive manufacturing. A perfectly adjusted product range always offers the right solution for different sectors, requirements and sizes – thus creating the best foundation for a faster and more flexible production.

Vulcan Engineering Co.

Booth 619
1 Vulcan Dr.
Helena, AL 35080
205-663-0732
vulcangroup.com

Vulcan Engineering Co. was founded in 1970 and is the largest in-house foundry engineering, equipment design, manufacture, and full-service integration group in North America. Equipment and facility designs and services are provided from concept to completion by an experienced team of specialized craftsmen and professional engineers across multiple disciplines. Vulcan utilizes more than 300,000 square feet of design and manufacturing space at the Helena, AL, location with additional sales and services centers in Mexico, Europe and China. Vulcan offers customers a total concept approach to manufacturing, focused on productivity and profitability.

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YXLON

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Worldwide, YXLON is the leading provider of non-destructive test (NDT) X-ray inspection equipment for industrial applications. YXLON enhances conventional x-ray

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ZEISS Industrial Metrology

Booth 105
6250 Sycamore Ln.
Maple Grove, MN 55369
763-744-2400
zeiss.com/metrology

ZEISS is an internationally leading technology enterprise operating in the optics and optoelectronics industries. The Industrial Metrology business group is a leading manufacturer of multidimensional metrology solutions. These include coordinate measuring machines and metrology software for the automotive, aircraft, mechanical engineering, plastics and medical technology industries.

Zerust Corrosion Solutions

Booth 117
P.O. Box 69
Circle Pines, MN 55014
763-225-6658
zerust.com

Zerust/Excor offers a full line of corrosion inhibitor packaging and rust solutions. Zerust is the inventor of Volatile Corrosion Inhibitor (VCI) poly technology and offers expert onsite support in over 60 countries worldwide. For over 35 years, Zerust has helped customers reduce the cost and problems associated with corrosion. Have a challenging corrosion prevention need, such as overseas shipping or storage in corrosive environments? Trust Zerust to help you

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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Cast in North America Exhibitor Booth List Alphabetical

(As of February 16)

A

ATEK Metal Technologies	931
Atlas Foundry Company	830

B

Blackhawk de Mexico SA de CV	633
Bremen Castings Inc.	837

C

Charlotte Pipe Foundry and Company	828
---------------------------------------	-----

D

Decatur Foundry Inc.	829
Dotson Iron Castings	729

L

LeClaire Manufacturing Company	634
Lethbridge Iron Works Ltd.	928

M

McConway & Torley LLC	935
Monarch Industries Limited	728

O

OSCO Industries Inc.	529
----------------------	-----

P

Pier Foundry & Pattern Shop Inc.	629
Product Development & Analysis LLC	631

R

Renaissance Manufacturing Group, Waukesha LLC	735
Rochester Metal Products Corp.	535

T

TB Wood's	731
-----------	-----

W

Waupaca Foundry	628
Webster Industries Inc.	929
Wisconsin Aluminum Foundry	737



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Cast in North America Exhibitor Booth List Product Category

(As of February 16)

Alloys/Materials

Webster Industries Inc. 929

Aluminum

ATEK Metal Technologies 931
 LeClaire Manufacturing Company 634
 Product Development & Analysis LLC 631
 Wisconsin Aluminum Foundry 737

Copper-Base

Wisconsin Aluminum Foundry 737

Iron

Atlas Foundry Company 830
 Bremen Castings Inc. 837
 Charlotte Pipe Foundry and Company 828
 Dotson Iron Castings 729
 Lethbridge Iron Works Ltd. 928
 Monarch Industries Limited 728
 Pier Foundry & Pattern Shop Inc. 629
 Renaissance Manufacturing Group, Waukesha LLC 735
 Rochester Metal Products Corp. 535

Steel

McConway & Torley LLC 935

Engineering/Capital Equipment

Casting Design

Charlotte Pipe Foundry and Company 828
 Lethbridge Iron Works Ltd. 928
 Product Development & Analysis LLC 631
 Wisconsin Aluminum Foundry 737

Cleaning, Finishing & Shipping

Atlas Foundry Company 830
 McConway & Torley LLC 935
 Rochester Metal Products Corp. 535
 Webster Industries Inc. 929

Engineering

Dotson Iron Castings 729
 Pier Foundry & Pattern Shop Inc. 629

Product Development
& Analysis LLC 631

Heat Treatment

LeClaire Manufacturing
Company 634
Webster Industries Inc. 929

Patternmaking & Tooling

Monarch Industries Limited 728
Product Development
& Analysis LLC 631

Value-Added Services (Machining, Painting, Assembly, etc.)

Bremen Castings Inc. 837
Charlotte Pipe Foundry
and Company 828
Dotson Iron Castings 729
Lethbridge Iron Works Ltd. 928
Monarch Industries Limited 728
Renaissance Manufacturing
Group, Waukesha LLC 735
Webster Industries Inc. 929

Melting/Melting Quality

Ferrous Melting

Lethbridge Iron Works Ltd. 928
McConway & Torley LLC 935

Ferrous Pouring

McConway & Torley LLC 935
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Pattern Shop Inc. 629
Renaissance Manufacturing
Group, Waukesha LLC 735
Rochester Metal
Products Corp. 535

Molding Processes

Centrifugal

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and Company 828

Chemically-Bound Sand

Monarch Industries Limited 728

Green Sand

Atlas Foundry Company 830
Bremen Castings Inc. 837
Charlotte Pipe Foundry
and Company 828
Dotson Iron Castings 729
LeClaire Manufacturing
Company 634
Lethbridge Iron Works Ltd. 928
McConway & Torley LLC 935
Monarch Industries Limited 728
Pier Foundry &
Pattern Shop Inc. 629
Renaissance Manufacturing
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Rochester Metal
Products Corp. 535
Webster Industries Inc. 929
Wisconsin Aluminum Foundry 737

Permanent Mold

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Sand Mold/Core Making

Coremaking

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LeClaire Manufacturing
Company 634
Renaissance Manufacturing
Group, Waukesha LLC 735
Rochester Metal
Products Corp. 53

Rapid Prototyping

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Product Development
& Analysis LLC 631

Sand Molding Equipment

Pier Foundry &
Pattern Shop Inc. 629



April 3-5, 2018 Fort Worth, Texas

Cast in North America Exhibitor Directory

(As of February 16)

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Booth 931
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248-766-7191

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Marion, IN 46952
765-662-2525
atlasfdry.com

Atlas Foundry is a jobbing and production foundry specializing in Class 25, 30, and 35 gray iron castings weighing less than 50 pounds. We utilize Disamatic molding machines to produce molds for our castings. Production volumes range from 100 mold releases to several thousand molds per release. Our foundry is located in Marion, IN, about 60 miles to the northeast of Indianapolis.

Blackhawk de Mexico SA de CV

Booth 633
Carretera a Villa de Gracia Km
2.5 1-A
Santa Catarina, Nuevo Leon
66350
Mexico
52-81 8151-0323
blackhawk.com.mx

Bremen Castings Inc.

Booth 837

500 N. Baltimore St.

Bremen, IN 46506

574-546-2411

bremencastings.com

Bremen Castings, Inc. (BCI) is 100% made in the USA and has been family-owned since 1939. With 79 years of experience, BCI is a manufacturing facility where buyers can send one purchase order and receive a complete part ready for application. Bremen Castings pours premier gray and ductile iron castings with a full-service, in-house machine shop. BCI is a one-stop shop and can take care of your machine complete aluminum and steel needs as well! Quality is a major priority at BCI and is proven out by being ISO/TS 16949:2009 and ISO 9001:2008 registered.

Charlotte Pipe Foundry and Company

Booth 828

1335 S. Clarkson St.

Charlotte, NC 28235

704-999-0278

charlottecastings.com

Charlotte Pipe is a family-owned and privately-held company that has been in the foundry business for over 100 years. Our foundry is a large (300,000-square-foot) and modern foundry that has diverse equipment to meet your specific needs. We are a medium to high production green sand foundry, with Disamatic, matchplate and HWS cope and drag molding equipment. We offer onsite e-coat and machining for value-added services. Charlotte Pipe is ISO

9001:2015 certified by LRQA. We have in-house pattern capability which allows us to upfit as well as design and build new patterns and core boxes.

Decatur Foundry Inc.

Booth 829

1745 N. Illinois St.

Decatur, IL 62526

217-429-5261

decaturfoundry.com

Dotson Iron Castings

Booth 729

200 W. Rock St.

Mankato, MN 56001

507-345-5018

dotson.com

Dotson Iron Castings is a one-stop shop for all your ductile iron casting, machining, painting and heat treatment needs. Along with value-added services, Dotson also offers industry-leading lead times, top notch engineering and unparalleled customer service. Dotson is employee-owned, and the owners are focused on continuous improvement in all areas of the business in order to deliver value and, most importantly, agility to you.

LeClaire Manufacturing Company

Booth 634

3225 Zimmerman Dr.

Bettendorf, IA 52722

563-332-6550

leclairemfg.com

Lethbridge Iron Works Ltd.

Booth 928
720 32nd St. North
Lethbridge, Alberta T1H 5K5
Canada
403-329-4242
lethiron.com

McConway & Torley LLC

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109 48th St.
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412-688-1559
mccconway.com

Craftsmanship. Innovation. Interconnected. Trinity Parts is a diversified business group that owns complementary, market-leading businesses with a deep legacy of service in many sectors. Our breadth of knowledge and experience enables us to provide peerless expertise and support to our customers. Trinity Parts employs more than 1,000 professionals across the U.S. We are uniquely positioned to offer the combined capabilities of casting, forging and fabrication within the U.S. Typically, forging and casting companies are competitors within the industry, but our ability to do any type of forming allows us to take the best approach for each customer and situation. It also makes us cost-competitive in the industries we serve. The single destination for a multitude of industry capabilities.

Monarch Industries Limited

Booth 728
51 Burmac Rd.
P.O. Box 429
Winnipeg, Manitoba R3C 3E4

Canada
204-786-7921
monarchindustries.com

Founded in 1935, Monarch Industries is a leading manufacturer and supplier of raw and machined iron castings with extensive experience in weld-to-cast conversions. Monarch's foundry capabilities include the ability to pour both gray and ductile castings ranging from 1 to 1,000 pounds on its 16 x 20, 26 x 20 and 32 x 30 greensand lines in addition to its 45 x 66 no-bake line. Employing over 450 people and having attained both ISO 9001 quality and ISO 14001 environmental certifications, Monarch is committed to providing outstanding service, quality and environmental responsibility. View our virtual factory tour videos at www.monarchindustries.com.

OSCO Industries Inc.

Booth 529
P.O. Box 1388
Portsmouth, OH 45662
740-821-3227
oscoind.com

Pier Foundry & Pattern Shop Inc.

Booth 629
51 State St.
St. Paul, MN 55107
651-222-4461
pierfoundry.com

Pier Foundry & Pattern Shop is passionately committed to providing you with the highest level of service, support and value which you expect from a grey iron and ductile iron casting manufacturer. We are an ISO certified provider

of grey iron, ductile iron and austempered ductile iron castings of superior quality, at a competitive price with one of the shortest lead times in the industry. We offer nearly 130 years of manufacturing experience, a knowledgeable and friendly sales staff, and a full complement of engineering support and technical services. We encourage our customers to get us involved early in the design process and offer design and castability assistance from concept through production. Let Pier Foundry be the one-stop shop for all of your casting needs.

Product Development & Analysis LLC

Booth 631
1776 Legacy Cir.
Suite #115
Naperville, IL 60563
630-505-8801
pda-llc.com

PDA LLC has been providing metalcasting design and manufacturing services for over 24 years to OEMs, metalcasters and tool makers towards new product development, casting conversion, redesign, reverse engineering for all alloys and processes utilizing CAD, FEA, CFD, casting process simulation, 3-D scanning, rapid prototyping and additive tooling-less processes. PDA specializes in the design and development of casting, rigging and process for conventional and additive manufacturing; and advance simulation for porosity, residual stress, hot tearing, micro-structure and properties for complex shapes with optimization, scrap reduction,

contract research and contract manufacturing. PDA LLC has been a member of major manufacturing innovation institutes – DMDII, LIFT and America Makes, currently working on casting-related research projects for all of them. Visit www.pda-llc.com.

Renaissance Manufacturing Group, Waukesha LLC

Booth 735
1401 Perkins Ave.
Waukesha, WI 53186
262-548-1506
ren-mfg.com

Renaissance Manufacturing Group features state-of-the-art processes resulting in improved production efficiency and quality assurance. We specialize in all ductile/nodular grades, hi temp grades, and ADI products. Renaissance Manufacturing Group also offers a wide variety of value-added services, including, but not limited to, heat treatment, machining, assembly and coatings.

Rochester Metal Products Corp.

Booth 535
616 Indiana Ave.
P.O. Box 488
Rochester, IN 46975
574-223-3164
rochestermetals.com

Rochester Metal Products Corp. has been producing quality gray and ductile iron castings since 1937. Our 200,000-square-foot facility is designed to serve a wide range of casting requirements

from 1 pound to 40 pounds. We offer casting design assistance for new products, from original concept to prototyping and final production. Rochester Metal Products Corp. takes great pride in our more than eight decades of commitment to meeting our customers' needs through short cycle times, on-time deliveries with consistent quality and competitive prices.

TB Wood's

Booth 731
440 N. 5th Ave.
Chambersburg, PA 17201
717-217-3879
tbwoods.com

Waupaca Foundry

Booth 628
1955 Brunner Dr.
P.O. Box 249
Waupaca, WI 54981
715-258-6611
waupacafoundry.com

Webster Industries Inc.

Booth 929
325 Hall St.
Tiffin, OH 44883
800-243-9327
websterchain.com/OurProducts/
MalleableIronCastings

The Webster Foundry has been in operation since 1914. We specialize in the production of custom malleable iron castings in quantities from a few pieces to high-volume production runs. We cast in sizes from two ounces to 50 pounds in the following metals: white iron, high alloy white iron, ferritic malleable iron, and pearlitic malleable iron (most classes). Our casting operations include

pattern making; induction channel melting; shell, oil sand and no-bake core making; Squeezer, Ro-to-Lift and Hunter automatic mold making; controlled atmosphere annealing; and insured pattern storage. We also have in-house heat-treat and machining facilities for more advanced machining requirements. Webster Industries' quality system is certified to the ISO9001:2015 standard. The workforce of the Webster foundry is comprised of highly skilled, well-trained and experienced employees, supported by our in-house engineering and design department.

Wisconsin Aluminum Foundry

Booth 737
838 S. 16th St.
Manitowoc, WI 54221
920-686-2753
wafco.com

Wisconsin Aluminum Foundry is located in Manitowoc, WI. We are IATF16949 & ISO9001 certified and employ approximately 340 people. We specialize in aluminum permanent mold, green sand, low pressure permanent mold and air set sand processes and can produce anywhere from prototype to 40,000-plus castings per year for our customers. We have recently expanded the foundry and added a second automated Disa green sand molding line and low pressure line to increase capacity in all processes. We also pour aluminum bronze and brass alloys.



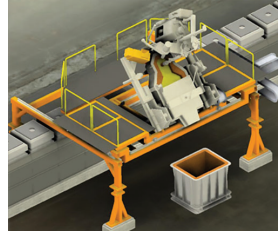
April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Product Showcase

ABP Induction

ABP Induction offers a new generation automated pouring system: UPT. The UPT is suitable for all molding lines providing reliable and flexible solutions for automatic pouring. The new pouring design provides great reproducible pouring accuracy, easy installation and requiring minimum space for installation. UPT in tandem with the ABP OptiPour; control system provides the most economical and technology available in today's market. Visit our booth to see why ABP Induction has been providing reliable and efficient solutions for over 115 years!



ABP
INDUCTION

ABP Induction, LLC

732-932-6400

www.abpinduction.com

Booth 511

Sinto

The Barinder Grinder's innovative robotic part handling and unique grinding wheels reliably automate the removal of gates, burrs, and parting line fins on aluminum, brass, gray and ductile iron castings. The Barinder is easy to learn, program and operate, and enhances your production by repeatability and fast product change-overs.



Sinto

517-371-2460

www.sintoamerica.com

Booth 617



ABP Induction

The FS Furnace Series is the High Quality Solution for Small Capacity Applications. FS furnace capacities range from 500 lbs to 6 tons, which make it ideal for a wide range of applications. The open cage and segmented coil designs are some of the advanced features that improve electrical efficiency and maximize productivity satisfying your production requirements. Visit our booth to see why ABP Induction has been providing reliable and efficient solutions for over 115 years!

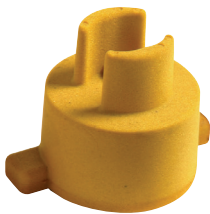


ABP Induction, LLC
732-932-6400
www.abpinduction.com
Booth 511

ABP
INDUCTION

Fairmount Santrol

TechniSand TruCoat® resin-coated sand is a new shell and core casting system that dramatically lowers odor, in-plant smoke and other emissions while delivering excellent performance. Our advanced resin-coated technology allows you to lower hazardous air pollutants (HAPs) by more than 41%; reduce free formaldehyde by 35%; and decrease free phenol levels 62% without sacrificing product quality. This innovative foundry solution, supported with outstanding customer service, offers greater productivity, uniform curing and fewer casting defects that result in better quality castings. Work smarter and breathe easier with TechniSand TruCoat.



 **FairmountSantrol**
Integrated Sand and Resin Solutions

Fairmount Santrol
800-255-7263
FMSA.com/TruCoat
Booth 505

Laempe Reich

At the core of great foundries. Laempe's CoreCenter is a coreshooter, sand mixer and gas generator – all under a single controller. Use vertical and horizontal tooling, or combination up to 6 parts with no machine changes, or use your existing tooling with a simple conversion. Project management, shipping, installation supervision and training are all included.

Laempe Reich

205-655-2121

www.LaempeReich.com

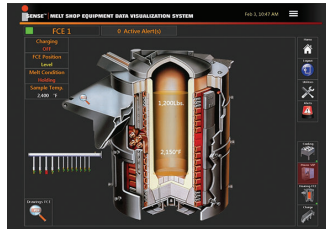
Booth 503



LAEMPEREICH

Inductotherm Corp.

Inductotherm's iSense™ Melt Shop Equipment Data Visualization System represents the future of advanced diagnostics. It is a combination of network topology, communications protocols, database and sensors connected through a graphical user interface. iSense™ technology is currently the only way to get access to nearly every detail of all your equipment in one place accessible from anywhere, anytime.



Inductotherm Corp.

800-257-9527

www.inductotherm.com

Booth 208



INDUCTOTHERM

Laempe Reich Core Room

We sell em. We use em. When we started The CoreRoom, a core supply company, we chose the same machine we want you to buy. Laempe. And for the same reasons. Quality cores, at high efficiency, at a reasonable price.



Laempe Reich

205-655-2121

www.TheCoreRoom.com

Booth 503



LAEMPEREICH

Fairmount Santrol

Our high-purity foundry sands provide predictable and dependable performance for a wide range of applications. Whether you are making standard production molds, or intricate and complex cores, you can be confident that Fairmount Santrol will deliver the superior performance you need. Our foundry sands will help you boost production, reduce casting defects and improve overall casting quality, contributing directly to your bottom line.



Fairmount Santrol

800-255-7263

FairmountSantrol.com

Booth 505



FairmountSantrol

Integrated Sand and Resin Solutions

Sinto

Sinto's CNDR Drum Blast features significantly less parts maintenance than conventional Tumble Blast machines with faster overall cycle time. Other features include zero pinch design that eliminates jams, hydraulic bucket loader and no leak drum design. The CNDR is low maintenance, has low operating costs and minimizes downtime. Contact us for information on more of our Surface Treatment equipment.



Sinto

517-371-2460

www.sintoamerica.com

Booth 617



Inductotherm Corp.

Inductotherm's VIP® Power-Trak® units have been proven to use the lowest kWh per ton melted ensuring you melt more metal faster, with less energy. VIP® Power-Trak® units "track" the power—regardless of changing furnace conditions—to provide full power from start to finish for the fastest melting times. Equipped with the latest EZ controls, the VIP® unit represents the most advanced and reliable system available.



Inductotherm Corp.

800-257-9527

www.inductotherm.com

Booth 208



AFS Bookstore in The HUB

This year, the AFS Special Publications Bookstore will be part of the HUB at the 122nd Metalcasting Congress. We will have a wide selection of books and logo-wear at the show. Be sure to stop by and take a look at what's in store for you!

Featuring New Publications

- *Aluminum Casting Technology, 3rd Edition*
- *Improving the Effectiveness of Visual Inspection*
- Secondary Dendrite Arm-Spacing in Al-Si Alloys (wall chart)

Meet the People Responsible for the New Publications!

Gold Medal-winner Ted Schorn will be available on Wednesday, April 4, at 2 p.m. to talk about his book, *Improving the Effectiveness of Visual Inspection*. Another Gold Medal winner, David Neff, also will be on hand to discuss *Aluminum Casting Technology, 3rd Edition*.

Save up to 25% on select titles and odds 'n' ends in our *Clearance Section!*

**The Bookstore is
located at the HUB,
Booth 517
during show hours.**

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*Vice President of Quality
and Technical Assurance*
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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

2018 Awards

GOLD MEDAL

John R. Keough, P.E.

Proprietor

Joyworks LLC (Ann Arbor, MI)

The **THOMAS W. PANGBORN GOLD MEDAL** . . . for pioneering efforts in the advancement of the marketing of metal castings through the education of current and future customers.



Dr. David V. Neff

The **JOHN A. PENTON GOLD MEDAL** . . . for his technical contributions to the metalcasting industry especially in the areas of research, publications, presentations and technical education.



MILLIONAIRES SAFETY AWARD

Anvil International (Columbia, PA): 3 million safe-hours

MetalTek International–Wisconsin Centrifugal Division (Waukesha, WI):
2 million safe-hours

Oil City Iron Works, Inc. (Corsicana, TX): 2 million safe-hours

AAM – Castings, Brewton Manufacturing Facility (Brewton, AL):
1 million safe-hours

AAM – Castings, Columbiana (Columbiana, AL): 1 million safe-hours

AAM – Castings, Ductile Iron Castings (New Castle, IN): 1 million safe-hours

AAM – Castings, Iron Mountain (Kingsford, MI): 1 million safe-hours

AWARD OF SCIENTIFIC MERIT

Robin D. Foley

*Associate Professor
The University of Alabama at Birmingham
(Birmingham, AL)*

The **AFS AWARD OF SCIENTIFIC MERIT** . . . for service to the metalcasting industry through research, process investigation, metal properties exploration and foundry education.



AFS SERVICE CITATION

Kathy L. Hayrynen

*Vice President of Research and Development
Applied Process Inc. (Livonia, MI)*

The **AFS SERVICE CITATION** . . . for service to the metalcasting industry through leadership roles in various industry activities on the national and chapter levels, for educating the industry on the capabilities of cast iron and its viability, and for supporting the next generation of metalcasting professionals.



Ed Marczyzak

*Plant Manager
Burndy Corporation (Bethel, CT)*

The **AFS SERVICE CITATION** . . . for his leadership and dedication to the local New England Chapter and tireless support of the American Foundry Society to advance education in the metalcasting industry.



Brad Steinkamp

*Plant Metallurgist
Dura-Bar (Woodstock, IL)*

The **AFS SERVICE CITATION** . . . for continuous support and leadership of a thriving Cast Iron Division and his mentorship to new committee members.





April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

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Additive Manufacturing Division

Division Chair

Brandon Lamoncha

Humtown Products
Columbiana, OH

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Travis Frush

University of Northern Iowa
Cedar Falls, IA

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Division Chair

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Program Chair

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Division Chair

Mike Riabov

Elkem Materials Inc.
Appleton, WI

Program Chair

Matt Meyer

Kohler Co.
Kohler, WI

Copper Division

Division Chair

Michael Buyarski

The Federal Metal Co.
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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

AFS Corporate Members

(As of February 16)

A

-
- | | |
|----------------------------------|---|
| A F K Corp | Advantage Metals Recycling LLC |
| A Y McDonald Mfg Co | Aero Metals Inc |
| AAM - Castings - Bessemer | Air Products & Chemicals Inc |
| AAM - Castings - Biscoe | Airmatic Inc |
| AAM - Castings - Brewton | Ajax TOCCO Magnethermic
Canada Ltd |
| AAM - Castings - Browntown | Ajax TOCCO Magnethermic
Corp - Albertville |
| AAM - Castings - Columbiana | Ajax TOCCO Magnethermic
Corp - Longview |
| AAM - Castings - El Carmen | Ajax TOCCO Magnethermic
Corp - Madison Heights |
| AAM - Castings - Kingsford | Ajax TOCCO Magnethermic
Corp - North Canton |
| AAM - Castings - Menomonee Falls | Ajax TOCCO Magnethermic
Corp - Warren |
| AAM - Castings - New Castle | Akron Brass Co |
| AAM - Castings - Oconomowoc | Akron Foundry Co |
| AAM - Castings - Reedsburg | Alabama Casting LLC |
| AAM - Castings - Saint Cloud | Alliant Castings |
| AAM - Castings - Southfield | Alotech Ltd |
| AAM - Castings - Wauwatosa | Alpha Foundry Co |
| Aarrowcast Inc | Alpha Resins Inc |
| ABC Coke | Alu-Bra Foundry Inc |
| ABC Coke Drummond | AMERICAN Cast Iron Pipe Company |
| ABP Induction LLC - Massillon | American Castings LLC |
| ABP Induction LLC - N Brunswick | American Colloid Co - Albion |
| ABP Induction LLC - Union Grove | American Colloid Co - Belle Fourche |
| AC Foundry Inc | |
| Acme Foundry Inc | |
| ACTech North America Inc | |
| Advanced Cast Products | |
| Advanced Pattern Works | |

American Colloid Co - Belvidere
American Colloid Co - Chattanooga
American Colloid Co - Granite City
American Colloid Co -
Hoffman Estates
American Colloid Co - Letohatchee
American Colloid Co - Neenah
American Colloid Co - Shell Rock
American Colloid Co - York
AMETEK Foundry Products - Berwyn
Amsted Rail - Granite City
Amsted Rail - Kansas City
Amsted Rail Company, Inc
Anderson Express Inc
Anderson Global
Anthracite Industries Inc
Anvil International Inc - Columbia
Anvil International Inc - Exeter
AnyCasting Software Co Ltd
AP Westshore Inc
Appleton Group
Applied Process Inc
Aristo-Cast Inc
Asbury Carbons Inc - Asbury
Asbury Carbons Inc - Sunbury
Asbury Wilkinson Inc - Burlington
Asbury Wilkinson Inc - Cambridge
Asbury Wilkinson Inc - Chateauguay
Asbury Wilkinson Inc - Mississauga
Ashland Foundry & Machine Works
ASK Chemicals - Ashland
ASK Chemicals - Boonton
ASK Chemicals - Cleveland
ASK Chemicals - Commerce
ASK Chemicals - Dublin
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ASK Chemicals de Mexico
S de R L de C V
ASK Chemicals Hi-Tech LLC
ASK Chemicals Metallurgy Inc
Astech Alloy Steel Technologies Inc
ATD Engineering & Machine

Atek Metal Technologies -
Eden Prairie
Atek Metal Technologies -
New Hampton
Atlas Foundry Co Inc
Aurora Metals Divison LLC
(Hiler Industries)
Austin Foundry Corp
Azterlan

B

B&L Information Systems Inc
Babs Foundry Inc
Badger Alloys Inc
Badger Mining Corp - Berlin
Badger Mining Corp - Taylor
Bahr Bros Manufacturing Co
Baker Manufacturing Co
Ball Brass & Aluminum Foundry
Batesville Products Inc
Beaver Valley Alloy Foundry Co
Belmont Metals Inc
Benton Foundry Inc
Bespro Pattern Inc
Best Sand Corp
Betz Industries
Bingham & Taylor Corp
Black Cat Wear Parts
Blackhawk de Mexico SA de CV
Blackmer
Blast Cleaning Technologies
Blastec Inc
Bodine Aluminum Inc - Jackson
Bodine Aluminum Inc - Saint Louis
Bodine Aluminum Inc - Troy
Boose Aluminum Foundry Co -
Reamstown
Boose at Cornwall Inc - Lebanon
Bradken - Brisbane
Bradken - Oconomowoc
Bradken - Amite
Bradken - Atchison/St Joe
Bradken - Atlas
Bradken - Engineered Products
Bradken - Global Services
Bradken - London
Bradken - Mont-Joli

Bremen Castings Inc
Brenner Machine Co Llc Inc
Brokk Inc
BRP US Inc - Spruce Pine
BRP US Inc - Sturtevant
Buck Co Inc
Burnham Corp - Lancasterr
Burnham Hydronics - Lancaster
Busche Aluminum Technologies
Busche Group

C

C A Lawton Co
C L Dews & Sons Fdry & Mach Co Inc
C Reiss Coke
Cadillac Casting Inc
Calderys
California Metal-X
Canada Metal (Pacific) Ltd
Capital Refractories Inc
CARBO Industrial Technologies -
Houston
CARBO Industrial Technologies -
New Iberia
Carlson Tool & Mfg Corp
Carolina Metal Castings
Carpenter Brothers Inc - Eagan
Carpenter Brothers Inc - Mequon
Carpenter Brothers Inc - Norton
Shores
Carpenter Brothers Inc - Zionsville
Carrier Vibrating Equip Canada
Carrier Vibrating Equipment Inc
Cast Aluminum Solutions LLC
Cast Technologies Inc
Castalloy Inc
Casting Solutions LLC
Castwell Products LLC
Caterpillar de Mexico
Caterpillar Inc - Aurora
Caterpillar Inc - Champaign
Caterpillar Inc - Danville
Caterpillar Inc - Decatur
Caterpillar Inc - Denison
Caterpillar Inc - East Peoria
Caterpillar Inc - Lafayette
Caterpillar Inc - Mapleton

Caterpillar Inc - Mossville
Caterpillar Inc - Peoria
Caterpillar Inc - South Milwaukee
Caterpillar Inc - Toccoa
Caterpillar Inc - West Fargo
Caterpillar Logistics Services Inc
Centre for Innovation & Technology
N Mahalingam (CITNM)
Century Brass Works Inc
CFM Corp
Champion Chisel Works Inc
Charlotte Pipe & Foundry Co
Chesapeake Specialty Products Inc
Chicago Magnesium Casting Co
Chris Erhart Foundry & Machine Co
Clay & Bailey Mfg Co
CMI Novacast Inc
CMP Global Inc - Suffolk
CMP Global Inc - Virginia Beach
Colonial Metals Co
Columbia Steel Casting Co Inc
Columbus Recycling
Comanche Technologies LLC
Conbraco Industries Inc - Conway
Conbraco Industries Inc - Matthews
Conbraco Industries Inc -
Pageland
Consarc
Consolidated Mill Supply Inc
Continental Aluminum Corp
Conveyor Dynamics Corp
CoorsTek
CP Industries
CPP - Minneapolis Operation
Craft Pattern & Mold Inc
CTP Sinto America LLC
Cumberland Foundry Co Inc
Cummins Inc
Curto-Ligonier Foundries Co
Customized Energy Solutions

D

D & L Foundry Inc
D W Clark Inc
Dakota Foundry Inc
David J Joseph Co
Decatur Foundry Inc

Deeter Foundry Inc
Denison Industries Inc
DeWys Engineering
Didion International Inc
Dinamec Systems LLC
DISA
Donsco Inc - Mount Joy
Donsco Inc - Wrightsville
Dotson Iron Castings
Dualtech Innovative Casting Tech Inc
Durex Industries
DustMASTER Enviro Systems

E

Eagle Alloy Inc
Eagle Aluminum Cast Products
Eagle Machined Products
Eagle Manufacturing Group
Eagle Precision Cast Parts Inc
EBAA Iron Inc - Albany
EBAA Iron Inc - Cordele
EBAA Iron Inc - Eastland
EBAA Iron Sales Inc - Eastland
Eck Industries Inc
Eirich Machines Inc
EJ - Ardmore
EJ - Denham Springs
EJ - East Jordan
Electric Controls & Systems Inc
Element Materials Technology -
Broken Arrow
Element Materials Technology -
Wixom
Elkem Foundry Products
Elkem Materials Inc
Elkem Metal Canada Inc
Elkhart Brass Mfg Co Inc
Elyria Foundry Co
EMSCO Inc - Anniston
EMSCO Inc - Massillon
EMSCO Inc - Milwaukee
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EMSL Analytical Inc
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Engis Corporation
EnvisionTec Inc
Epcor Foundry

EQI Ltd
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ESI North America
ETA Engineering Inc
Evans Industries
ExOne - Houston
ExOne - Irwin
ExOne - Las Vegas
ExOne - Troy
EZ Grout Corp
EZG Manufacturing

F

Faircast Inc
Fairmount Foundry Inc
Fairmount Santrol - Benton Harbor
Fairmount Santrol - Chardon
Fairmount Santrol - Chesterland
Fairmount Santrol - Ottawa
Fairmount Santrol - St Charles
Fairmount Santrol - Sugar Land
Fairmount Santrol - Troy Grove
Fairmount Santrol - Wedron
Falcon Foundry Co
Fall River Foundry
Farrar Corp - Manhattan
Farrar Corp - Norwich
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Ferroloy Inc
Finishing Associates
Finite Solutions Inc - Hamilton
Finite Solutions Inc - Slinger
FISA North America Inc
Fisher Cast Steel Products Inc
Flexovit USA Inc
Flow Science Inc
Flury Foundry Co
Foley Pattern Co Inc
Fonderie Laperle Inc
Fonderie Saguenay Ltee
Fonderies Bibby Ste-Croix Inc
Ford Meter Box Co Inc - Pell City
Ford Meter Box Co Inc - Wabash
Foseco - Cleveland
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Foseco - Highland
Foseco - Pittsburgh

Foseco - Winlock
Foundry Solutions & Design
Franklin Iron Works Inc
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Friends Foundry Inc
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G

G & W Electric Co - Blue Island
G & W Electric Co - Bolingbrook
Galesburg Castings Inc
Gartland Foundry Co
GE Additive
GE Cntr for Additive Tech
Advancement
Gemini Inc - Cannon Falls
Gemini Inc - Decorah
Gemini Inc - Taylor
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General Kinematics Corp
General Motors - Bay City
General Motors - Bedford
General Motors - Defiance
General Motors - Flint
General Motors - Indianapolis
General Motors - Lansing
General Motors - Pontiac
General Motors - Romulus
General Motors - Saginaw
General Motors - Spring Hill
General Motors - Toledo
General Motors - Warren
General Motors - Ypsilanti
General Motors de Mexico
S A de C V - Toluca
General Motors Fairfax
General Motors of Canada Ltd
Goldens' Foundry & Machine Co -
Columbus
Goldens' Foundry & Machine Co -
Cordele
Graham-White Mfg Co
Great Lakes Castings LLC
Green Packaging Inc
GreenSand Controls Inc
Griffin Industries Corp

Guardian Software Systems Inc
Gudgeon Thermfire Intl Inc

H

H Kramer & Co
HA International LLC - Toledo
HA International LLC - Westmont
Haley & Aldrich - Ann Arbor
Haley & Aldrich - Conyers
Haley & Aldrich - Greenville
Harmony Castings LLC
Harry H Reich Co
Hayakawa USA Corp
Henry Perkins Co
Henry Pratt Co
Henschel Andromat Inc
Heraeus Electro-Nite Canada Ltd
Heraeus Electro-Nite Co - Langhorne
Heraeus Electro-Nite Co - Loveland
Heraeus Electro-Nite Co - Yardley
Heraeus Hartland
Hickman Williams & Co - Birmingham
Hickman Williams & Co - Chattanooga
Hickman Williams & Co - Cicero
Hickman Williams & Co -
Cranberry Township
Hickman Williams & Co - Fontana
Hickman Williams & Co - Houston
Hickman Williams & Co - LaPorte
Hickman Williams & Co - Monroe
Hickman Williams & Co - Oak Brook
Hickman Williams & Co - Plymouth
Hickman Williams Canada Inc
High Temperature Systems Inc
Hiler Industries
Hiler Industries (Kingsbury Cstg Div)
Hitachi Hi-Tech Analytical Science
Hitachi Metals America Ltd
Hitachi Metals Automotive
Components USA LLC
Hitech Shapes & Designs
Hodge Foundry
Hoosier Pattern Inc
Howell Foundry LLC
HS Group HR Inc
Hsin Lien Machinery Parts Co Ltd

Humtown Products
Hunter Foundry Machinery Corp

John Deere Turf Care
Joy Mark Inc
Joyworks LLC

I Schumann & Co

I Sq R Power-Cable Co

ID Castings LLC

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IMERYS - Cincinnati

IMERYS - Niagara Falls

IMERYS - Roswell

IMERYS - Waterloo

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Inductotherm Corp - Pico Rivera

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Inductotherm Group Canda Ltd

Industrial Ceramic Products Inc

Industrial Metals Recycling

Industrias John Deere SA de CV -
Santa Catarina

Industrias John Deere SA de CV -
Torreon

Ingot Metal Co Ltd

Integra Castings Inc

International Thermal Systems

Interstate Castings

Iron Age Designs

Italpresse Gauss

J

J & L Precision Castings - Waukesha

J R Hoe & Sons Inc - Middlesboro

Jef-Scot Metal Industries Inc -
Centerville

Jenkins Electric Co - Charlotte

John Deere Co - Ankeny

John Deere Co - Coffeyville

John Deere Co - Davenport

John Deere Co - Des Moines

John Deere Co - Dubuque

John Deere Co - East Moline

John Deere Co - Horicon

John Deere Co - Moline

John Deere Co - Ottumwa

John Deere Co - Waterloo

John Deere Power Systems

K

Kansas Castings Inc

Kelly Foundry & Machine Co

Kenton Iron Products LLC

Keramida Inc

Key 3 Casting Co

Keystone Casting LLC

Kimura Foundry America Inc

King Tester Corp

Kirsh Foundry Inc

Kloster Foundry Products

Knoebel & Associates

Kodiak Group

Kohler Co

Kurtz Bros Inc

Kurtz North America

Kuttner LLC

L

L A Aluminum Casting Corp

Laempe + Reich Corp

Lakeshore Sand Co

Larpen Metallurgical Service

Latrobe Foundry
Machine & Supply Co

Lebanon Tool Co Inc

LeClaire Manufacturing Co

LECO Corporation

Lee Brass Co

Lemfco Inc

LeSueur Incorporated

Lethbridge Iron Works Co Ltd

Liberty Casting Co LLC

Liberty Pattern Company

Liberty Technology Co LLC

Ligon Industries LLC

Lindberg/MPH

Littlestown Foundry Inc

Lodge Mfg Co

Lodi Iron Works Inc

Louis Meskan Foundry Inc

Lou-Rich Inc

M

MacKenzie Castings LLC
Magaldi Technologies LLC - Atlanta
Magaldi Technologies LLC - Salerno
MAGMA Foundry Technologies Inc - Schaumburg
Magneco/Metrel Inc - Addison
Manley Bros of Indiana Inc - Troy Grove
Marcellus Metalcasters Inc - Marcellus
Martin Engineering - Neponset
McConway & Torley LLC - Pittsburgh
McHenry Brass Inc - Mc Henry
McWane Inc - Anniston
McWane Inc - Birmingham
McWane Inc - Coshocton
McWane Inc - Elmira
McWane Inc - Oakland
McWane Inc - Oskaloosa
McWane Inc - Phillipsburg
McWane Inc - Provo
McWane Inc - Ste Croix
McWane Inc - Tyler
Meloon Foundries LLC
Mercer Forge Corporation
Meritor Inc - Fletcher
Meritor Inc - Franklin
Meritor Inc - Troy
Metal Technologies Inc
Metal Technologies Ravenna Ductile Iron Plant
Metal Technologies Three Rivers Gray Iron Plant
MetalTek International - Chattanooga
MetalTek International - Pevely
MetalTek International - Watertown
MetalTek International - Waukesha
MIA Manufacturing Inc
Michigan Pneumatic Tool Inc
Michigan Wheel Marine
Mid City Foundry Co - Grafton
Mid City Foundry Co - Milwaukee
Midland Manufacturing Co
Midvale Industries Inc - Montgomery
Midvale Industries Inc - Saint Louis
Midvale Industries Inc - Tulsa
Midwest Manufacturing & Logistics

Miller and Company
Minerals Technologies
Modern Equipment Co LLC
Monett Metals Inc
Morgan AM&T
Morgan Molten Metal Systems
Morris Bean & Co
Mossner
MPM Infosoft Pvt Ltd
Mueller Canada
Mueller Co - Alberville
Mueller Co - Chattanooga
Mueller Co - Decatur
Multi-Cast LLC

N

Naval Foundry & Propeller Center
Neanah Foundry Co
Neptune Technology Group Inc
Newport News Shipbuilding
Non-Ferrous Cast Alloys Inc
North Star Products
North Vernon Industry Corp
Northern Foundry LLC
Northern Iron & Machine
Northfield Manufacturing Inc
NovaCast Solutions USA Inc
NovaCast Systems AB - Goteborg
NovaCast Systems AB - Ronneby

O

O'Fallon Casting
O'Hare Foundry Corp
Oil City Iron Works Inc
Olson Aluminum Castings
Osco Industries Inc - Jackson
Osco Industries Inc - Portsmouth
Oshkosh Corporation

P

P&W Foundry Inc
Pacific Alloy Casting Co Inc
Palisades Holdings Inc
Palmer Engineered Products
Palmer Foundry Inc
Palmer Maus North America Corp

Palmer Mfg & Supply Inc
Pangborn Corp - Birmingham
Pangborn Corp - Fairburn
Peerless Metal Powders & Abrasive
Perfect Patterns Inc
Perkins Engine Co Ltd
Perma-Cast Co
Peter E Macler Assoc PLLC
Pickering Metal Casting LLC
Pier Foundry & Pattern Shop
Pillar Induction
Plymouth Foundry Inc
Poitras Foundry Ltd
Porter Warner Industries Inc -
Arlington
Porter Warner Industries Inc -
Birmingham
Porter Warner Industries Inc -
Chattanooga
Porter Warner Industries Inc -
Compton
Porter Warner Industries Inc - Houston
Porter Warner Industries Inc - Oakland
Porter Warner Industries Inc - Phoenix
Porter Warner Industries Inc -
Richburg
Porter Warner Industries Inc - Tulsa
Powercast Mfg Inc
Precision Enterprises Inc/Duro
Cast Inc
Precision Rail and Mfg Inc
Premier Aluminum LLC
PRL Industries Inc
Product Development & Analysis LLC
Production Pattern & Foundry Co
ProfitGuard LLC
Progress Rail, a Caterpillar Company
Prototype Casting Inc

Q

Quality Castings Co

R

Rassini Frenos SA de CV - Plymouth
Rassini Frenos SA de CV -
San Martin Texmelucan
REFCOTEC Inc - Orrville

Regal Cast Inc - Lebanon
Renaissance Manufacturing Group -
Waukesha LLC
Resource Recovery Corp
Rheocast Co
Rice Industries Inc
Richmond Industries Inc
Rimrock Corp
Rio Tinto Alcan - Independence
Rio Tinto Alcan - Jonquiere
Rio Tinto Iron & Titanium Inc -
Montreal
Rio Tinto Iron & Titanium Inc -
Sorel-Tracy
Rio Tinto Iron & Titanium Inc -
South Jordan
RJ Lee Group Inc
Roberts Sinto Corp
Roberts Sinto de Mexico
Rochester Metal Products Corp -
Muncie
Rochester Metal Products Corp -
Rochester
Rock Island Arsenal Joint Mfg & Tech
Cntr (RIA-JMTC)
Rockford Foundries Inc
Rocky Mount Engine Plant
Rolls Royce Marine North America
Rolloff Manufacturing Corp
Roman Manufacturing/Quality Brass
Ross Aluminum Castings LLC

S

Sandmold Systems Inc
Sandusky International Inc
Schaefer Furnaces Inc
Scott Sales Co
Seabee Cast Steel Foundry
Seaport Mold & Casting Corp
Selee Corporation
Seneca Foundry Inc
Shandong Jingang New Materials
Co Ltd - Houston
Shandong Jingang New Materials
Co Ltd - Zouping
Shipston Aluminum Technologies Inc
Simpson Technologies Corp
SinterCast Inc - Naperville

SinterCast Ltd - Sunninghill Berkshire
Sintex Minerals & Services Inc
Sipi Metals Corp
Skat-Trak Inc
Sloan Valve Co - Augusta
Sloan Valve Co - Franklin Park
Smith & Richardson Mfg Inc
Smith Foundry Co
Snam Alloys Pvt Ltd
Solar Turbines Inc
Solex Thermal Science Inc
solidThinking Inc
Sotrem-Maltech
Southeastern Fdry Products & Fdry
Coatings Inc
Southland Metals Inc - Maumelle
Southland Metals Inc - Mishawaka
Southland Metals Inc - Pryor
Southland Metals Inc - Roswell
Southland Metals Inc - Tomball
Southwest Steel Casting Co
SP Foundry
Specialty Castings LLC
Spectro Analytical Instruments
Spring City Electrical Mfg Co
St Louis Precision Casting Co
St Marys Foundry Inc
St Paul Foundry
Stahl Specialty Co - Kingsville
Stahl Specialty Co - Warrensburg
Standard Alloys & Manufacturing
Star Pipe Products
Strato Inc
StrikoWestofen
Superior Aluminum Castings Inc
Superior Graphite Co
Supreme Cores Alabama
Supreme Cores of The Carolinas Inc
Swerea SWECAST
Synchro ERP Ltd - Austin
Synchro ERP Ltd - London
SYSCON Sensors

T

T H Mfg Co
Tampa Brass & Aluminum Corp
Taylor Foundry Co

TB Wood's Inc
TDJ Group Inc
TechniSand Inc
Tennetek Inc
Textron Defense Systems
Textron Inc
The AWC Company - Courtice
The AWC Company - Romeo
The Federal Metal Co
The HILL and GRIFFITH Co -
Cincinnati
The HILL and GRIFFITH Co -
Indianapolis
The Wasmer Company LLC
Tinker Omega Mfg LLC
Tonkawa Foundry Inc
Torrance Casting Inc
Toscelik Granul Sanayi AS
Townley Foundry & Machine
TPI Arcade Inc - Arcade
TPI Arcade Inc - Harmony
TRC Companies Inc - Ann Arbor
TRC Companies Inc - Brookfield
TRC Companies Inc - Grand Ledge
TRC Companies Inc - Grand Rapids
TRC Companies Inc - Greenville
TRC Companies Inc - Nashville
TRC Environmental Corp - Cleveland
TRC Environmental Corp - Madison
Tromley Industrial Holdings Inc
Tyco Fire & Building Products
Tyler Pipe Co

U

U S Foundry & Mfg Co - Atlanta
U S Foundry & Mfg Co - Medley
U S Pipe & Foundry Co - Bessemer
U S Pipe & Foundry Co -
Council Bluffs
U S Pipe & Foundry Co - Hoover
U S Pipe & Foundry Co - Lisle
U S Pipe & Foundry Co - Lynchburg
U S Pipe & Foundry Co - Union City
Ultraseal America Inc
Unicast Co
Unimin Corp - Brentwood
Unimin Corp - Crystal City

Unimin Corp - Huntingburg
Unimin Corp - Mansfield
Unimin Corp - Millville
Unimin Corp - Milwaukee
Unimin Corp - New Canaan
Unimin Corp - Ottawa
Unimin Corp - Pittsburgh
Unimin Corp - Portage
Unimin Corp - Rocklin
Unimin Corp - Tuscaloosa
United Brass Works Inc - Erie
United Brass Works Inc - Randleman
United Western Supply Co - Portland
United Western Supply Co - Seattle
Universal Electric Foundry Inc
Urick Ductile Solutions
Urschel Laboratories Inc
US Aluminum Castings

V

Van Hydraulics Inc
Verichek Technical Services Inc
Vermont Castings
Versevo Inc
Victaulic Co of America - Alburdis
Victaulic Co of America - Easton
Victaulic Co of America - Leland
Victaulic Co of Canada
Victaulic De Mexico S de RL de CV
Victaulic Technical Center
Viking Pump
Viking Technologies
Virginia Industries Inc
Viridis3D LLC
Voestalpine Nortrak Inc
Voxeljet AG
Voxeljet America Inc
Voxeljet China Co Ltd
Vulcan Engineering Co Inc -
Birmingham
Vulcan Engineering Co Inc - Helena

W

Ward Corporation
Ward Heat Treating
Ward Manufacturing LLC
Washburn Iron Works Inc

Washington Mills
Waterous Company
Watry Industries LLC
Waupaca Foundry Inc - Etowah
Waupaca Foundry Inc - Marinette
Waupaca Foundry Inc - Tell City
Waupaca Foundry Inc - Tioga
Waupaca Foundry Inc - Waupaca
Wear-Tek
Weatherly Casting & Machine Co
Weaver Materiel Service Inc
Webster Industries Inc
Weil McLain
Weir Pump and Valve Solutions, Inc
West Salisbury Fdry & Machine Co
Western Foundries Inc
Wexford Sand Co
WGB Industries Inc
WGS Global Services LLC - Flint
WGS Global Services LLC - Tell City
Wheelabrator Group - Burlington
Wheelabrator Group - Lagrange
Wheelabrator Group - Waukesha
Whibco Inc
William Goetz and Associates
Winnebago Foundry Inc
Wirco Inc - Avilla
Wirco Inc - Champaign
Wisconsin Aluminum Foundry Co
Wisconsin Oven Corporation
Woodland/Alloy Casting Inc

Y

Yamaha Marine Precision
Propellers Inc
YXLON



April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

AFS and the Institute Upcoming Events

Upcoming Conferences

May 1 - 2

Practical Cupola Operations Workshop

Comfort Suites Foxfire | Waupaca, WI

May 8 - 9

AFS Stormwater Seminar

Crowne Plaza Columbus Downtown | Columbus, OH

May 15 - 16

AFS Government Affairs Fly-In

Hyatt Regency Washington on Capitol Hill | Washington, D.C.

Aug. 13 - 14

AFS Volunteer Training Conference

AFS Headquarters | Schaumburg, IL

Aug. 20 - 21

AFS Cast Iron Inoculation Conference

Sheraton Louisville Riverside Hotel | Louisville, KY

Sept. 10 - 13

Additive Manufacturing for Metalcasting Conference

Louisville Marriott Downtown | Louisville, KY

Sept. 16 - 18

AFS Foundry Leadership Conference

Omni Amelia Island Plantation | Amelia Island, FL

Oct. 7 - 8

AFS Advanced Air Seminar

Cleveland Marriott East | Warrensville Heights, OH

Oct. 9 - 11

AFS 30th Environmental, Health & Safety Conference

Cleveland Marriott East | Warrensville Heights, OH

Oct. 10

Advanced Cupola Concepts Seminar

McWane Ductile and Coshocton Village Inn and Suites | Coshocton, OH

Nov. 5-7

AFS Aluminum Casting Conference

Crowne Plaza Knoxville | Knoxville, TN

Dec. 11 - 12

AFS Marketing Conference

Westin O'Hare, Rosemont, IL

Apr. 27-30, 2019

CastExpo '19

Georgia World Congress Center, Atlanta, GA

Upcoming Courses

Apr. 17 - 18

Casting Defect Analysis

Hampton Inn & Suites Warwick/Airport | Warwick, RI

Promoted by the New England AFS Chapter. In order to determine the true root cause of a casting defect and select the proper corrective action, a systematic evaluation method must be applied.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Shelly Dutler, AFS Institute

Patrick Kluesner, Consultant

Apr. 24 - 25

Gating & Riser Design 101

Southern Oklahoma Technology Center | Ardmore, OK

Casting quality and yield are directly impacted by gating design. This course guides participants through the basic functions of gating and risers to provide clean, sound and functional castings.

List Price: \$1,250.00 | Member Price: \$1,050.00

Course Instructors:

Ed Marczyszak, Burndy Corp

Shelly Dutler, AFS Institute

May 2 - 3

Casting Defect Analysis

American Foundry Society | Schaumburg, IL

Participants will become proficient in applying a 10-step procedure that will enable them to analyze and reduce metalcasting defects by correctly identifying defects, root causes, and determining corrective action.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Patrick Kluesner, Consultant

Shelly Dutler, AFS Institute

May 8 - 10

Foundry Process Improvement

Hilton Garden Inn Chattanooga Downtown | Chattanooga, TN

This 2.5-day course provides foundry personnel with disciplined problem solving techniques by emphasizing tools to better understand process data and performance with unique examples and case studies drawn from foundry settings.

List Price: \$1,750.00 | Member Price: \$1,550.00

Course Instructors:

Walter Evans, Process Improvement Consultant

May 16 - 17

Design & Optimization for 3-D Sand Printing

UNI Additive Manufacturing Center | Waterloo, IA

This course focuses on designing castings for the 3-D sand printing process, as well as optimizing existing designs to take advantage of the unique capabilities afforded. Topics covered include the advantages and limitations to the process.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Brandon Lamoncha, Humtown Products

Jerry Thiel, University of Northern Iowa

June 6 - 7

Casting Supplier Auditing

Hampton Inn & Suites | St. Paul, MN

This course will review the methods for effectively performing supply chain audits of metalcasting facilities.

List Price: \$1,450.00 | Member Price: \$1,250.00

Course Instructors:

Walter Evans, Consultant

Jim White, Consultant

June 12 - 13

Gating & Riser Design 101

American Foundry Society | Schaumburg, IL

Casting quality and yield are directly impacted by gating design. This course guides participants through the basic functions of gating and risers to provide clean, sound and functional castings.

List Price: \$1,250.00 | Member Price: \$1,050.00

Course Instructors:

Dr. Sudesh Kannan, Consultant

Shelly Dutler, AFS Institute

June 20

Identifying the Correct Casting Defect/Casting Material Properties

Hampton Inn and Suites Downtown St. Paul | Saint Paul, MN

Identifying the Correct Casting Defect provides participants with a basic overview of the casting defect analysis procedure. Casting Material Properties provides an in-depth discussion on expected performance of a casting.

List Price: \$500.00 | Member Price: \$425.00

Course Instructors:

Shelly Dutler, AFS Institute

Bo Wallace, AFS Institute

July 17 - 18

Introduction to Metalcasting

American Foundry Society | Schaumburg, IL

This course introduces the process of metalcasting. It provides a broad picture of what happens in a casting production facility, while illustrating the technology, variables and complexity involved in producing a casting.

List Price: \$1,250.00 | Member Price: \$1,050.00

Course Instructors:

Shelly Dutler, AFS Institute

Juliette Garesche, AFS

Bo Wallace, AFS Institute

Shannon Wetzel, AFS

July 31 - Aug. 1

Gating & Riser Design 201

American Foundry Society | Schaumburg, IL

This course is a continuation of Gating & Riser Design 101 with an emphasis on application of sands, chill, sleeves, other thermal control properties, fluid flow principles and filtration.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Dr. Sudesh Kannan, Consultant

Patrick Kluesner, Consultant

Sept. 19 - 20

Casting Cost Estimating

American Foundry Society | Schaumburg, IL

Cost estimating is a critical factor in ensuring a manufacturing company continues to acquire customers and to be profitable.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Dr. Sudesh Kannan, Consultant

Doug Dallmer, CMS Associates Inc.

Oct. 1

Virtual Casting Process

American Foundry Society | Schaumburg, IL

This course provides participants with a basic overview of the metalcasting process from quoting through shipping.

List Price: \$500.00 | Member Price: \$425.00

Course Instructors:

Bo Wallace, AFS Institute

Shelly Dutler, AFS Institute

Oct. 2

Iron 101

American Foundry Society | Schaumburg, IL

This is an introductory course covering the major cast iron families.

List Price: \$1,000.00 | Member Price: \$800.00

Course Instructors:

Walter Evans, Consultant

Oct. 3 - 4

Casting Defect Analysis

American Foundry Society | Schaumburg, IL

In order to determine the true root cause of a casting defect and select the proper corrective action, a systematic evaluation method must be applied.

List Price: \$1,350.00 | Member Price: \$1,150.00

Course Instructors:

Patrick Kluesner, Consultant

Walter Evans, Consultant

Oct. 23

Virtual Casting Process

American Foundry Society | Schaumburg, IL

This course provides participants with a basic overview of the metalcasting process. Students will trace the path of a casting from quoting through shipping.

List Price: \$500.00 | Member Price: \$425.00

Course Instructors:

Bo Wallace, AFS Institute

Shelly Dutler, AFS Institute

Oct. 24

Aluminum 101

American Foundry Society | Schaumburg, IL

This course covers the characteristics and properties of aluminum, alloying elements and their general applications and considerations for working with aluminum cast parts.

List Price: \$1,000.00 | Member Price: \$800.00

Course Instructor:

David Palmer, BRP US Inc.

Dec. 4

Coldbox Process 101

American Foundry Society | Schaumburg, IL

This course is an introduction to the coldbox coremaking process.

List Price: \$1,000.00 | Member Price: \$800.00

Course Instructor:

Doug DeSmit, ASK Chemicals

Dec. 5

Green Sand Molding 101

American Foundry Society, Schaumburg, IL

This course is an introduction to the green sand molding process used within a metalcasting facility.

List Price: \$1,000.00 | Member Price: \$800.00

Course Instructors:

Bo Wallace, AFS Institute

Dec. 6

Nobake Molding & Coremaking 101

American Foundry Society, Schaumburg, IL

This course provides participants with a basic foundation of the nobake molding and coremaking process used within a foundry.

List Price: \$1,000.00 | Member Price: \$800.00

Course Instructors:

John Roth, Prairie Industrial Products

Training for Excellence in Metalcasting

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Solutions
Booth
517



We use em too.

When we started a core supply company, we chose the same machine we want you to choose. Laempe. For the same reasons. Quality cores. At high efficiency. At a reasonable price.

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April 3-5, 2018 Fort Worth, Texas

METALCASTING CONGRESS

Congress at a Glance

Fort Worth Convention Center
1201 Houston St.
Fort Worth, TX 76102

Wednesday, April 4	
7 a.m. – 5 p.m.	Registration
7 – 8 a.m.	Author Chair Breakfast
7:30 – 9 a.m.	Women in Metalcasting Breakfast <i>(Invite only)</i>
8 a.m. – 4:45 p.m.	Technical & Management Sessions
9 a.m. – 6 p.m.	Exhibit Hall Open
10:30 – 11:30 a.m.	Hoyt Memorial Lecture - Dan Oman
11:30 a.m. – 1:30 p.m.	Division Recognition Luncheon - <i>Ticket Required</i>
1:30 – 4:45 p.m.	Institute Course
2 – 4 p.m.	Future Leaders in Metalcasting Session <i>(Invite only)</i>
4:30 – 6 p.m.	Reception with Exhibitors in the Exhibit Hall
6:30 – 9:30 p.m.	Alumni Dinner <i>(Invite only)</i>

Monday, April 2	
4 – 6 p.m.	Registration

Tuesday, April 3	
7 a.m. – 5 p.m.	Registration
7 – 8 a.m.	Author Chair Breakfast
8 a.m. – 4:45 p.m.	Technical & Management Sessions
9 a.m. – 5 p.m.	Exhibitor Set-Up
10:30 – 11:30 a.m.	Keynote Speaker - Jean Bye
11:30 a.m. – 1 p.m.	Copper Division Luncheon - <i>Ticket Required</i>
1:30 – 4:45 p.m.	Institute Course
6 – 7 p.m.	Annual Banquet Reception
7 – 10 p.m.	Annual Banquet - <i>Ticket Required</i>

Thursday, April 5	
7 a.m. – 12:30 p.m.	Registration
7 – 8 a.m.	Author Chair Breakfast
8 – 10:15 a.m.	Technical & Management Sessions
8 – 10:15 a.m.	Institute Course
9 a.m. – Noon	Exhibit Hall Open
9:30 – 10:30 a.m.	Continental Breakfast - <i>In Exhibit Hall</i>
10:30 – 11:30 a.m.	Keynote Speaker - Stephen Moore
11:30 a.m. – 1:30 p.m.	President's Luncheon & Annual Business Meeting - <i>Ticket Required</i>
Noon – 5 p.m.	Exhibit Hall – Tear Down
2:30 – 5 p.m.	Plant Tour - Midland Manufacturing Co. - <i>Ticket Required</i>

