



AFS METALCASTING CONGRESS

SHAPING TOMORROW IN METALCASTING

April 14 – 16, 2026 | Grand Rapids, MI

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April 14 – 16, 2026 | Grand Rapids, MI
AFS METALCASTING CONGRESS
SHAPING TOMORROW IN METALCASTING

Dear AFS Members and Friends,

On behalf of the American Foundry Society, welcome to Grand Rapids and Metalcasting Congress 2026! We are delighted to have you join us for North America’s premier foundry industry event.

The theme this year is “Shaping Tomorrow in Metalcasting.” You’ll see that theme playing throughout the show. Metalcasting Congress offers one-of-a-kind opportunities for learning, networking, and exploration. We encourage you to engage with the exhibitors, attend educational sessions and keynotes, and connect with fellow industry professionals. Building relationships with peers can lead to valuable collaborations and insights that drive innovation in metalcasting.

AFS extends its sincere gratitude to our presenters, volunteers, sponsors, and exhibitors. Your investment in Metalcasting Congress and AFS contributes to the vitality of this event, and indeed, of our whole industry.

If you have any questions or suggestions, please feel free to approach any AFS employee or visit us in The AFS Hub in the exhibit hall. You’ll recognize AFS staff by their blue shirts.

Again, thank you for your dedication to metalcasting and for being part of Metalcasting Congress 2026. We wish you a fulfilling and productive experience during your time here.

Warm regards,



Doug Kurkul
2016–2026 CEO
American Foundry Society



Justin Scott
CEO
American Foundry Society



April 14 – 16, 2026 | Grand Rapids, MI

METALCASTING CONGRESS

SHAPING TOMORROW IN METALCASTING

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BOOTH #638



General Information

Location and Hours

DeVos Place Convention Center
303 Monroe Ave NW
Grand Rapids, MI 49503

Registration

DeVos Center – Grand Gallery

Monday, April 13 _____ 4 – 6 p.m.
Tuesday, April 14 _____ 7 a.m. – 5 p.m.
Wednesday, April 15 _____ 7 a.m. – 5 p.m.
Thursday, April 16 _____ 8 a.m. – Noon

Exhibit Hall

Exhibit Hall B-C

Tuesday, April 14 _____ 8 a.m. – 5 p.m.
(Exhibitors move in/setup)
Wednesday, April 15 _____ 9 a.m. – 6 p.m.
Thursday, April 16 _____ 9 a.m. – Noon

Exhibit Service Center & Other Service Desks

Exhibit Hall B-C

Tuesday, April 14 _____ 8 a.m. – 5 p.m.
(Exhibitors move in/setup)
Wednesday, April 15 _____ 9 a.m. – 6 p.m.
Thursday, April 16 _____ 9 a.m. – 2 p.m.

Lead Retrieval

DeVos Center – Grand Gallery

Monday, April 13 _____ 4 – 6 p.m.
Tuesday, April 14 _____ 7 a.m. – 5 p.m.
Wednesday, April 15 _____ 7 a.m. – 5 p.m.
Thursday, April 16 _____ 8 a.m. – 1 p.m.

AFS Store

DeVos Center – Grand Gallery

Tuesday, April 14 _____ 7:30 a.m. – 5 p.m.
Wednesday, April 15 _____ 7:30 a.m. – 5 p.m.
Thursday, April 16 _____ 8 a.m. – Noon

Keynote Presentations

Steelcase Ballroom C

Tuesday, April 14 _____ 10:30 – 11:30 a.m.
Wednesday, April 15 _____ 10:30 – 11:30 a.m.

Technical & Management Sessions

Rooms: Grand Gallery A-E

Tuesday, April 14 _____ 8 a.m. – 4:45 p.m.
Wednesday, April 15 _____ 8 a.m. – 4:45 p.m.
Thursday, April 16 _____ 8 – 10:15 a.m.

AFS Institute Courses

Rooms: Grand Gallery F

Tuesday, April 14 _____ 8 – 10 a.m. 1:30 – 4:30 p.m.
Wednesday, April 15 _____ 8 – 10 a.m. 1:30 – 4:30 p.m.
Thursday, April 16 _____ 8 – 9 a.m.

Casting Designers & Buyers Sessions

Exhibit Hall B-C – AFS HUB Booth 423
in the Casting Source Theater

Wednesday, April 15 _____ 9:15 a.m. – 3:15 p.m.
Thursday, April 16 _____ 9:15 – 11 a.m.

Foundry-in-a-Box

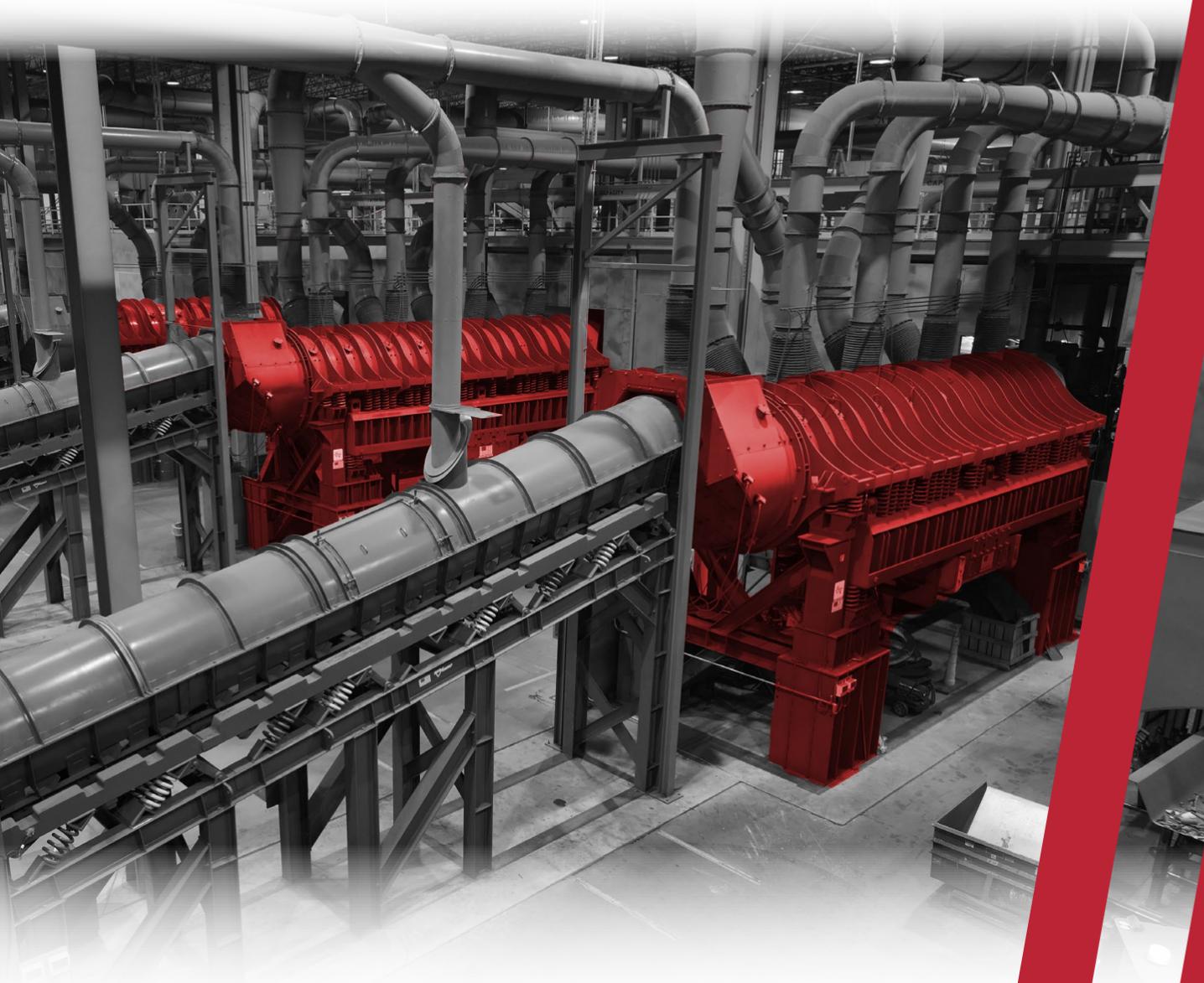
Exhibit Hall B-C Booth 128

Wednesday, April 15 _____ 9 a.m. – 4:30 p.m.
Thursday, April 16 _____ 9 – 11:30 a.m.

AFS Show Office, Technical Office, & Speaker Ready Room

Room: Business Center

Tuesday, April 14 _____ 7 a.m. – 5 p.m.
Wednesday, April 15 _____ 7 a.m. – 5 p.m.
Thursday, April 16 _____ 7 a.m. – Noon



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American Foundry Society Code of Conduct

The American Foundry Society invites attendees to participate in AFS conferences, courses, committees and other events in a spirit of collegiality, collaboration, professionalism, and respect as we endeavor to advance AFS's mission—to provide members of the metalcasting supply chain with advocacy support, technical and management education, and access to innovative shared research and technology.

When you attend an AFS event, you agree to the following:

- Treat all attendees—including registrants, guests, speakers, volunteers, exhibitors, staff, service providers, and others in attendance—with respect and consideration.
- Respect the boundaries of others.
- Give permission that AFS can use pictures, videos and audio recordings taken during AFS-related events for AFS promotional purposes. AFS can use your likeness without remuneration.
- Be collegial and collaborative in your discussions, communicating openly and with civil attitudes.
- Respect confidentiality requests from speakers and other attendees. AFS Committee meetings allow for the open exchange of information and are confidential to those in attendance.
- Obey all applicable laws, rules and policies. These include rules and policies of the meeting venue, hotels, or any other site where your AFS affiliation is likely to be displayed.
- Look out for one another. Immediately alert emergency services, meeting or property security personnel, AFS staff, or AFS leadership if you notice someone in distress or see a dangerous or potentially dangerous situation.

Unacceptable behavior at an AFS event includes:

Physical or verbal abuse of any attendee.

- Being disruptive, stalking, following, threatening, or intimidating anyone.
- Drinking excessively or becoming intoxicated.
- Harassment of any kind, including unwelcome sexual attention and inappropriate physical conduct.
- Making comments or engaging in conduct that is racist, sexist, ageist, or otherwise discriminates against or is offensive to a group or class of people.
- Audio or video recording or taking images of another's presentation, posters, or materials without permission.
- Meetings may be recorded by AFS staff for business purposes. Any recordings or transcriptions by the participants or through artificial intelligence, present or not, are prohibited.

Contact us to report an incident

If, while at an AFS event, you are personally involved in an incident, or you witness an incident involving others that violates this Code of Conduct, please let AFS staff know about it immediately. You can speak directly with a member of the AFS staff leadership concerning an incident, or you can use a name-optional reporting form that will soon be a part of the AFS website.

If you experience or witness behavior that is an imminent or serious threat to public safety or is a criminal act, you should take action to maintain your own personal safety and contact 911 emergency services immediately.

AFS's Commitment to Quality Member/Attendee Experiences

AFS is committed to providing our members and event attendees with a quality experience. We take any violations of the above standards extremely seriously. AFS reserves the right to bar any person who violates this Code of Conduct from further participation in the event without refund. AFS may also suspend or expel any person who violates this Code of Conduct from AFS membership or from attending or participating in future AFS events.

Excellence in Service

The traditional book for registering your years of volunteer service in the metalcasting industry is located in AFS Store. AFS Members who have served the industry for five or more years are invited to register and receive their Volunteer Milestone Pins.

Policy on Audio and Video Recording

AFS reserves the right to any audio and video reproduction of any part of Metalcasting Congress 2026. 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 are strictly prohibited.

Minimum Age Restriction

Children under 16 are permitted if accompanied by an adult and with a signed waiver.

Antitrust Policy

The Antitrust Policy Statement of the American Foundry Society is available to anyone attending Metalcasting Congress 2026. Copies are available online at www.afsinc.org.



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Special Events

Volunteer Leadership Awards Luncheon

Tuesday, April 14 | 11:45 a.m. – 1:15 p.m.
Steelcase Ballroom D | Ticketed Event - \$80

Join us for a lively, fast-paced Volunteer Leadership Awards Luncheon. This is a fantastic opportunity to reconnect with colleagues while AFS officers welcome four new board members. You'll also see the AFS Technical and Management Division Chairs present key national and divisional honors, including the Scientific Merit and Service Citation awards.

Annual Banquet Reception

Tuesday, April 14 | 6 – 7 p.m.
Amway Grand – Crown Foyer | Cashless Bar

Kick off the Annual Banquet with great conversation and familiar faces. The cashless bar opens at 6:00 p.m.

Annual Banquet

Tuesday, April 14 | 7 – 9 p.m.
Amway Grand – Ambassador Ballroom | Ticketed Event - \$150

Join us for an evening of business networking and celebration, including presentation of AFS's highest honor—the AFS Gold Medal—and the 2025 William J. Grede Recipient.

Cashless bar: 6 p.m. | Awards presentation & banquet: 7 p.m.
President's After-Party: 9 p.m.

Dress Code for the AFS Banquet - Traditional business attire, including suits, sports coats, pantsuits, or dresses. This is not a black-tie event.

President's After-Party

Tuesday, April 14 | 9 – 10 p.m.
Amway Grand – Ambassador Ballroom | Cashless Bar

Keep the celebration going at the President's After-Party—an upbeat, post-banquet hangout to toast the evening's honorees, swap stories from the night, and catch up with friends old and new. Grab a drink, relax, and enjoy some easy networking as we close out the night AFS-style.

Past Presidents' Luncheon

Wednesday, April 15 | 11:30 a.m. – 1:30 p.m.
Real Seafood Company

Celebrate AFS tradition at the AFS Past Presidents Luncheon—an opportunity to connect, reflect, and honor the leadership that has helped define AFS. Must be a previous AFS President to attend. Registration necessary.

IJMC Student Research Competition

Wednesday, April 15 | 11:45 a.m. – 12:45 p.m.
Casting Source Theater in the AFS HUB

The IJMC/FEF Student Research Competition empowers undergraduate college students to showcase their metalcasting.

Women in Metalcasting Luncheon

Wednesday, April 15 | 11:45 a.m. – 1:15 p.m.
Steelcase Ballroom D | Free to AFS Members
\$80 for non-members

This event is open to AFS members of Women in Metalcasting. It includes lunch, networking, the presentation of the AFS Women in Metalcasting Award of Excellence, and the presentation of Jean Bye AFS Women in Metalcasting Scholarship.

Thank you to our Sponsors:



Exhibit Floor Reception

Wednesday, April 15 | 4:30 p.m. | Exhibit Hall B-C

Attendees are encouraged to mingle on the exhibit floor with exhibitors. Enjoy appetizers and refreshments.

Young Professionals Networking Reception

Wednesday, April 15 | 5 – 6 p.m. | River Overlook Pre-Function

You're Invited! Join the AFS Young Professionals and fellow industry professionals for a high-energy networking reception in the River Overlook Pre-Function area at the DeVos Conference Center. Build your personal and professional network while you "light up" the evening sampling local Grand Rapids beer. We can't wait to see you there!

Thank you to our Sponsors:



Alumni Dinner

Wednesday, April 15 | 6 – 9 p.m. | Grand Rapids Public Museum
AFS Alumni only. Ticketed Event - \$145

Join this time-honored Alumni tradition! We'll begin with an Alumni presentation to welcome AFS's newest Alumni members and celebrate the Alumni who came before—then explore the Grand Rapids Public Museum's special exhibits and permanent installations, with a fine meal and cocktails shared with fellow AFS Alumni. **Must be a member of AFS Alumni to attend.** Registration necessary. Please note: Transportation is not provided for this event.

Copper Breakfast

Thursday, April 16 | 7 – 8 a.m. | Steelcase Ballroom D
Ticketed Event - \$70

The Copper Division will present their annual awards during the breakfast. The breakfast is open to everyone with an interest in copper alloys.



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The AFS HUB

Exhibit Hall B-C Booth 423

The AFS Hub is a dedicated area for connecting with AFS staff and other attendees. Visit the AFS Hub to enjoy a cup of coffee, or charge your phone while networking with peers. This area also features AFS Products & Services, Casting of the Year winners, the SFSA Casting Dreams Competition, and sessions for the Casting Designers & Buyers Track.

Casting Designers & Buyers Track

Casting Designers & Buyers Track sessions run in the Casting Source Theater at the AFS Hub. These sessions are available to all Metalcasting Congress 2026 attendees.

The Casting Source Theater is sponsored by:



AFS Hub Powered Tables sponsored by:



Foundry-in-a-Box

Exhibit Hall B-C Booth 128

Wednesday, April 15 - 9 a.m. - 4:30 p.m.

Thursday, April 16 - 9 - 11:30 a.m.

One of the most interactive areas on the exhibit floor, the Foundry-in-a-Box is located in booth 128 where demonstrations receive a constant flow of attendees of all ages and experience levels who want to make a casting.

Thank you to our sponsors:



Special thanks to the AFS Saginaw Valley Chapter for running Foundry-in-a-Box demonstrations this year.



The AFS Store

DeVos Center - Grand Gallery

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

Watercoolers sponsored by:



Keynote Speaker



Tuesday, April 14 | 10:30 – 11:30 a.m. | Steelcase Ballroom C

Nothing Can Stop You

Jim Abbott

Former Major League Baseball Pitcher & Olympic Gold Medalist

Jim Abbott, a remarkable athlete and inspirational figure, delivers a powerful message of resilience, determination, and overcoming adversity. Born without a right hand, Abbott's journey to becoming a Major League Baseball pitcher is a testament to the human spirit's boundless potential. He also received a Gold Medal as an Olympian the first time baseball was an Olympic sport, and a University of Michigan Golden Spikes Award, the highest honor in college baseball.

His presentations are a blend of heartfelt storytelling, unwavering optimism, and a profound belief in the power of perseverance. His talk explores how do we learn to be grateful for the circumstances we are born into? And in the end, how we all can come to celebrate the challenges that make us who we are. Expect to be deeply moved and motivated as Abbott shares his experiences of defying the odds and achieving greatness in the face of challenges.

Abbott's approach is relatable and down-to-earth, emphasizing the importance of embracing differences, adapting to change, and never giving up on one's dreams. His talks transcend sports and touch on universal themes of courage, teamwork, and the potential that resides within all of us. His message resonates with audiences of all backgrounds, leaving a lasting impression that encourages individuals to strive for their personal best, regardless of the challenges they may face.

Hoyt Memorial Lecturer



Wednesday, April 15 | 10:30 – 11:30 a.m. | Steelcase Ballroom C

Foundry Manufacturing: Where Metallurgy Meets Mastery

Exploring the Dual Nature of Casting as Both Art and Science and its Unique Place in Manufacturing Technologies (26-097)

Randy Oehrlein

Vice President of Engineering, Carley Foundry

Foundry processes represent a unique intersection of art and science, blending precision engineering with creative problem solving. The science aspect is evident in metallurgy, thermodynamics and fluid mechanics, which dictate material behavior, casting integrity and defect prevention. Simultaneously the artistic dimension emerges in mold design, pattern-making, and the nuanced expertise required to manipulate molten metal into complex high-quality components. Mastery in foundry operations requires both empirical knowledge and intuitive craftsmanship, as professionals navigate variables such as material composition, cooling rates and intricate geometries. This synthesis of technical rigor and creative adaptation underscores the essential duality of foundry work, making it a field where science ensures reliability, while artistry refines excellence. This paper looks at the nature of manufacturing and how the foundry industry has, and will continue to, straddle science and art.

Randy has been involved with a wide range of foundry engineering tasks since 1974 and has been with Carley Foundry since 1999. With degrees in Mechanical Engineering and Machine Design, Randy serves as VP of Engineering, overseeing an experienced multi-disciplined team of engineers.

He is active at the national level in the American Foundry Society (AFS) Aluminum and Research Committees, and he serves as an instructor and training material contributor.

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Schedule at a Glance - Tuesday, April 14

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Grand Gallery	Registration Open						
Exhibit Hall B-C	Exhibitor Set Up (Exhibitors Only)						
Grand Gallery Rooms A		Engineering & Smart Manufacturing (26-092) (26-015)		Molding Methods & Materials (26-033) (26-055)			
Grand Gallery Rooms B		Metalcasting Research (26-113) (26-134)		Aluminum & Light Metals (26-019) (26-086)			
Grand Gallery Rooms C		Melting Methods & Materials (26-010) (26-052)		Melting Methods & Materials (26-120)			
Grand Gallery Rooms D		Additive Manufacturing (26-005) (26-030)		Lost Foam (26-021) (26-124)			
Grand Gallery Rooms E							
Grand Gallery Rooms F		AFS Institute (26-136)					
Steelcase Ballroom C					Keynote Speaker: Jim Abbott		
Steelcase Ballroom D						Volunteer Leadership Awards Luncheon (Ticket Required)	
Casting Source Theater in the AFS HUB - Booth 423							
Special Events	Author Chair Breakfast Gallery Overlook GH						

Schedule is subject to change.

	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.
Grand Gallery	Registration Open						
Exhibit Hall B-C	Exhibitor Set Up (Exhibitors Only)						
Grand Gallery Rooms A				Molding Methods & Materials (26-027) (26-037)			
Grand Gallery Rooms B		Aluminum & Light Metals (26-107) (26-008) (26-065)		Aluminum & Light Metals (26-094) (26-095)			
Grand Gallery Rooms C		Cast Iron (26-127)		Cast Iron (26-064) (26-074) (26-087)			
Grand Gallery Rooms D		Metalcasting Research (26-011) (26-024)		Steel (26-105) (26-076) (26-077)			
Grand Gallery Rooms E							
Grand Gallery Rooms F		AFS Institute (26-137)					
Steelcase Ballroom C							
Steelcase Ballroom D							
Casting Source Theater in the AFS HUB - Booth 423							
Special Events							Annual Reception (Ticket Required) Amway Grand - Crown Foyer

■ Events
 ■ Technical Track
 ■ Management Track
 ■ AFS Institute
 ■ Casting Designers & Buyers Track

Schedule is subject to change.

Schedule at a Glance – Wednesday, April 15

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Grand Gallery	Registration Open						
Exhibit Hall B-C	Exhibit Hall Open						
Grand Gallery Rooms A		Molding Methods & Materials (26-035) (26-044)	Engineering & Smart Manufacturing (26-144)				
Grand Gallery Rooms B		Aluminum & Light Metals (26-135) (26-101)	Aluminum & Light Metals (26-013) (26-059)				
Grand Gallery Rooms C		Cast Iron (26-143)	Cast Iron (26-007) (26-084)				
Grand Gallery Rooms D		Steel (26-025)	Melting Methods & Materials (26-122) (26-123)				
Grand Gallery Rooms E		Environmental, Health & Safety (26-133)	Women in Metalcasting (26-130)				
Grand Gallery Rooms F		AFS Institute (26-138)					
Steelcase Ballroom C					Hoyt Memorial Lecturer: Randy Oehrlein		
Steelcase Ballroom D						Women in Metalcasting Luncheon (RSVP/Ticket Required)	
Casting Source Theater in the AFS HUB - Booth 423			Casting Designers & Buyers (26-119)	Casting Designers & Buyers (26-009)		IJMC/FEF Student Research Competition	
Special Events	Author Chair Breakfast Gallery Overlook GH					Past Presidents' Luncheon (Ticket Required) Real Seafood Company	

Schedule is subject to change.

	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.
Grand Gallery	Registration Open						
Exhibit Hall B-C	Exhibit Hall Open			Exhibit Floor Reception			
Grand Gallery Rooms A		Engineering & Smart Manufacturing (26-082)	Molding Methods & Materials (26-032) (26-110)				
Grand Gallery Rooms B		Government Affairs (26-154) (26-155)	Copper (26-118) (26-128)				
Grand Gallery Rooms C		Environmental, Health & Safety (26-029) (26-068) (26-100)	Melting Methods & Materials (26-125) (26-126)				
Grand Gallery Rooms D		Metalcasting Research (26-106) (26-060) (26-063)	Additive Manufacturing (26-099) (26-108) (26-109)				
Grand Gallery Rooms E		Talent Development (26-112) (26-079)	Young Professionals (26-111)				
Grand Gallery Rooms F		AFS Institute (26-139)					
Steelcase Ballroom C							
Steelcase Ballroom D							
Casting Source Theater in the AFS HUB - Booth 423	Sponsored Presentation (26-150)	Sponsored Presentation (26-151)	Casting Designers & Buyers (26-145)	Casting Designers & Buyers (26-146)			
Special Events						AFS Young Networking Professionals Reception	Alumni Dinner (AFS Alumni only. Ticket Required) Grand Rapids Public Museum

■ Events
 ■ Technical Track
 ■ Management Track
 ■ AFS Institute
 ■ Casting Designers & Buyers Track

Schedule is subject to change.

Schedule at a Glance - Thursday, April 16

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	
Grand Gallery		Registration Open						
Exhibit Hall B-C		Exhibit Hall Open						
Grand Gallery Rooms A		Engineering & Smart Manufacturing (26-098) (26-078)	Engineering & Smart Manufacturing AND Steel (26-049)					
Grand Gallery Rooms B		Copper (26-129)	Copper (26-026) (26-061)					
Grand Gallery Rooms C		Cast Iron (26-017)	Metalcasting Research (26-072) (26-073)					
Grand Gallery Rooms D		Additive Manufacturing (26-043) (26-056)	Additive Manufacturing (26-042)					
Grand Gallery Rooms E		Talent Development (26-023)	Marketing (26-147)					
Grand Gallery Rooms F		AFS Institute (26-140)						
Steelcase Ballroom C								
Steelcase Ballroom D	Copper Breakfast							
Casting Source Theater in the AFS HUB - Booth 423			Sponsored Presentation (26-152)	CD&B (26-148)	CD&B (26-048)			
Special Events	Author Chair Breakfast Gallery Overlook GH							

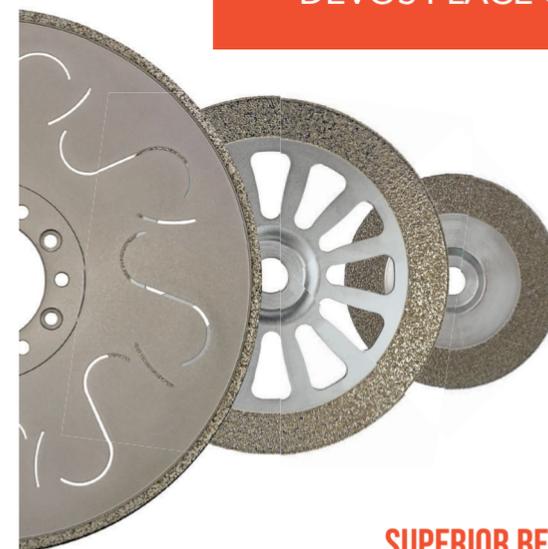
Schedule is subject to change.



AFS METALCASTING CONGRESS 2026

BOOTH 713 | APRIL 14-16

DEVOS PLACE CONVENTION CENTER, GRAND RAPIDS, MI



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2026 Show Schedule

Tuesday, April 14, 2026

7 a.m. – 5 p.m.

Room: Grand Gallery	Registration Open
<i>Attendee Bags Sponsored By:</i>	<i>Lanyards Sponsored By:</i>
	

7 – 8 a.m.

Room: Galley Overlook GH	Author/Chair Breakfast
This breakfast is for AFS speakers, session chairs, students and staff to meet and coordinate details for the day's educational sessions.	

7:30 – 10:30 a.m.

Room: Grand Gallery	Coffee Station by AFS Technical Sessions
<i>Sponsored By:</i>	
	
	

8 – 9 a.m.

ADDITIVE MANUFACTURING DIVISION	Surface Roughness of Cast Steel Produced by 3D Printed Sand (26-005)	<i>Natbaniel Bryant, University of Northern Iowa, Cedar Falls, IA; Jerry Thiel, Precision Casting Technologies LLC, Dysart, IA</i>
Room: Grand Gallery D	Casting produced using additively manufactured molds and cores typically exhibit rougher surface finishes due to an inherent limitation in the process. While improvements in surface roughness have been investigated in aluminum castings, little research was published in steel. To address this research gap, the University of Northern Iowa investigated ten commercially available 3D printing aggregates to understand the relationship between material parameters, refractory coating practice, and casting surface roughness. Similar trends to prior reports in aluminum castings were found, where a threshold value for material characteristics shows the limitation in further improvements in surface finish.	
Session Chairs: <i>Kelley Kerns, HA Group, Westmont, IL; Jake Vargo, Matthews Additive Technologies, Pittsburgh, PA</i>		

ADDITIVE MANUFACTURING DIVISION	High-Performance Hybrid Sand Cores via Binder Jetting: A Multi-Response Characterization and Optimization (26-030)	<i>Paoli Parenti, Mukul Kumar, Stefania Cacace, & Quirico Semeraro, Politecnico de Milano, Italy; Maurizio Chiesa & Daniele Chiesa, Fondershell srl, Italy</i>
Room: Grand Gallery D	This study investigates the performance of binder jetting (BJ) cores made from a silica-based sand mixtures, with the aim of optimizing the production of complex hydraulic components in cast iron. A wide range of printing experiments explores the impact of sand selection, reclamation, and rheology, as well as printing variables (such as build orientation and job box location) on the core properties and on their variability within the printer's build volume. Mechanical tests (flexural strength) and thermal expansion (hot distortion) are studied and coupled with casting trial outcomes that outline how the occurrence of veining, bending, and breakage defects can be minimized. Results reveal that variations in powder bed density and parameter-induced anisotropy significantly affect the multi-response performance. The research highlights critical process/property/performance links, enabling more uniform and predictable production of complex sand cores in industrial binder jetting scenarios.	
Session Chairs: <i>Kelley Kerns, HA Group, Westmont, IL; Jake Vargo, Matthews Additive Technologies, Pittsburgh, PA</i>		

ENGINEERING & SMART MANUFACTURING DIVISION	Casting Done Right Revisited (26-092)	<i>Paul Jones, Huskerine Technologies, Rochester Hills, MI</i>
Room: Grand Gallery A	Collaborative designs of castings are critical to the success for casting users and casting producers. This paper describes how to achieve manufacturing friendly designs that satisfy customer requirements.	
Session Chairs: <i>Andrea McDermott, AY McDonald, Dubuque, IA</i>	Using Simulation to Drive the Rigging Process (26-015)	<i>David Schmidt, Finite Solutions, Inc., Singer, WI</i>
	Simulation has long been used to test rigging designs prior to casting production. This is useful, but it relies on the foundry engineer's expertise. However, simulation of a part without rigging can provide significant information that can be used to efficiently design an effective rigging system from the start. Simulation can then be used to verify and fine tune systems for highest yields. Case studies will be presented to illustrate how the process is applied to sand, investment and permanent mold casting processes. These examples will highlight the differences between casting alloys and processes and how those differences are accounted for in simulation.	

MELTING METHODS & MATERIALS DIVISION	Benefits of Fused Silica in Coreless Induction Furnace Dry-Vibratable Refractories (26-010)	<i>Griffin Patterson, HWI, a Member of Caldersy, Pittsburgh, PA</i>
Room: Grand Gallery C	Silica Dry-Vibes are one of the most common classifications of refractories used in coreless induction furnaces (CIFs). Quartz-based materials offer high refractoriness, excellent chemical resistance, and a good cost-performance balance. However, they are still prone to challenges such as sintering, erosion and thermal expansion. By incorporating fused silica into the quartz-based refractory, thermal expansion can be significantly reduced to improve furnace campaign life and improve operation flexibility. This paper investigates the scientific principles behind this phenomenon and presents case studies on how implementation of fused silica containing dry-vibes can improve number of heats in a campaign.	
Session Chair: <i>Todd Lyles, Specialty Foundry Products, Inc., Asheville, AL</i>		

8 – 9 a.m.

MELTING METHODS & MATERIALS DIVISION Room: Grand Gallery C Session Chair: <i>Todd Lyles, Specialty Foundry Products, Inc., Asheville, AL</i>	The Reduction of Slag Buildup on Refractory Linings in Ductile Iron Treatment Vessels (26-052)	<i>Robert Pattillo & Mark Muszynski, Reno Refractories, Inc., Birmingham, AL</i>
	The buildup of slag on refractories results in costly repairs and downtime related to the removal of the build-up. This paper reviews the processes involved and possible solutions. A new refractory has been developed that essentially repels the micro/nano sized compounds suspended in molten iron. Electro-Static repulsion is employed in this system to prevent coagulation. The result is an improvement in operational efficiency.	

METALCASTING RESEARCH Room: Grand Gallery B Session Chair: <i>Adam Kopper, Brunswick Corp., Fond du Lac, WI</i>	Smart Investment Shells for Foundry 4.0 (26-113)	<i>Ben Hilgers, Laura Bartlett, Koustav Dey, Ronald O'Malley, & Jie Huang, Missouri University of Science & Technology, Rolla, MO</i>
	A novel in-line tool for automated production of aluminum investment castings is being developed. Advanced sensing techniques are being utilized to develop “smart” investment shells that can provide high-definition temperature and strain development maps during the shell manufacturing process, during dewaxing and firing, and during the aluminum casting and solidification process. This will enable the unprecedented ability to uniquely understand, control and eliminate process parameters that lead to defects during the shelling and firing process as well as provide unique information about filling parameters during the casting process such as metal velocity, temperature distribution, and ultimately microstructure prediction. In the current study, we present the use of fiber optic sensors to measure temperature and strain development during investment casting of 356 aluminum. This data can be directly be implemented into solidification modeling software improve casting quality.	
	Update on AFS Research Project Focused on Investment Casting Efficiencies Enhancements (26-134)	<i>Jiten Shah, Product Development & Analysis LLC, Naperville, IL</i>
This project started in 2023 with three primary tasks with goals to improve efficiencies by recycling of aluminosilica shell materials; evaluate new materials and processes for more rapid shell production with pattern burn out; and the generation of an improved tool for risering for common steel alloys. This presentation will provide an update with progress made till-date and future work by the project team consisting of California State Polytechnic University, Pomona; University of Northern Iowa, MetalTek/PDA LLC along with industrial partners. This AFS-led project is funded as part of AMC’s Emergent Metal Casting Solutions (EMCS) program sponsored by the Defense Logistics Agency Troop Support, Philadelphia, PA and the Defense Logistics Agency Research & Development (R&D) Office, Ft. Belvoir, VA.		

8 – 10 a.m.

AFS INSTITUTE Room: Grand Gallery F	Metalcasting Process Basics - Part 1 (26-136)	<i>Patrick Kluesner, Metal Technologies Inc. (MTI), Auburn, IN</i>
	This course provides participants with a basic overview of the metalcasting process. Students will trace the path of a casting from quoting through shipping.	

8 a.m. – 5 p.m.

Room: Exhibit Hall B-C	Exhibitor Set Up (Exhibitors Only)
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Schedule is subject to change.

9:15 – 10:15 a.m.

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: <i>Carl Soderhjelm, PhD, University of California, Irvine, CA</i>	Arresting Transfer-Pour Velocities with Pour Basin Designs (26-019)	<i>Daniel Hoefert, Eck Industries, Inc., Manitowoc, WI; Roy Stevenson, MAGMA Foundry Technologies, Inc., Schaumburg, IL</i>
	The focus of this paper is the investigation of pour basin designs that can help arrest the higher velocities involved with pouring larger transfer-pour castings. Filling simulations were used to compare several pour basin designs and trials were sampled using basins made via 3D printed sand. Video comparisons were recorded to document the pour quality and fill times were recorded to compare pour time consistency.	
	Multifrequency Ultrasonic Treatment of Liquid Al Alloys (26-086)	<i>Raquel Fierro, University of California- Irvine, Irvine, CA</i>
Multifrequency Ultrasonic Treatment (UST) is a novel molten Al processing method with potential benefits that replace the need for excessive chemical modifiers and tailor the microstructure of a solidified casting via control of the treatment conditions. UST has been known to refine grain size and modify intermetallic phases in the literature, however the mechanisms and conditions required to tune these microstructural alterations have not been sufficiently studied. This work establishes the mechanisms of UST; the critical conditions necessary to attain microstructural refinement in various Al alloys are quantified and presented. Experimental conditions including treatment time, treatment temperature, and time following treatment all play a role in optimizing microstructural refinement, which have been characterized via thermal analysis and electron microscopy.		

LOST FOAM DIVISION Room: Grand Gallery D Session Chair: <i>Jacob Belke, Mercury Marine, Fond du Lac, WI</i>	Development of Quality - Focused Knowledge Base for the Lost PLA Casting Process (26-021)	<i>Dr. Ismail Fidan, Vivekanand Naikwadi, & Mushfig Mahmudov, Tennessee Technological University, Cookeville, TN; Marshall Miller, Tesserract4D, Rock Spring, GA</i>
	This study explores a novel metal casting process using additively manufactured PLA patterns that disintegrate upon contact with molten aluminum, rather than being burned out beforehand. Key variables investigated include pattern shell thickness, coating types, and sand grain size. A full factorial Design of Experiment (DOE) was used to evaluate their effects on casting quality, assessed by surface roughness, dimensional accuracy, and hardness. Results showed that finer sand and white coating improved surface finish and hardness. Statistical analysis using ANOVA highlighted the influence of each parameter, while OM, SEM, and X-ray testing identified internal defects. Findings aid in optimizing casting quality.	
	Initial Investigation of Nickel Based Superalloys in Lost Foam and Additive Manufacturing Evaporative Casting (26-124)	<i>Sarah Jordan & Mark DeBruin, Skuld LLC, Piqua, OH; Jason Walker & Pete Schupka, The Ohio State University, Columbus, OH</i>
Nickel based superalloys such as nickel 625, 718, and 713c (also referred to as Inconels) are not typically used in lost foam. This America Makes project sought to demonstrate the feasibility of lost foam and Additive Manufacturing Evaporative Casting (AMEC), a new hybrid manufacturing process that merges polymer 3D printing with lost foam investment casting, to produce those alloys. The goal was to demonstrate the potential to use these processes for low volume, high end applications such as for forging tooling. This will cover the challenges and findings of the initial investigation in lost foam and AMEC.		

Schedule is subject to change.

9:15 – 10:15 a.m.

<p>MELTING METHODS & MATERIALS DIVISION</p> <p>Room: Grand Gallery C</p> <p>Session Chair: <i>Ashley Folden-Ecker, MPS Mankato LLC, Mankato, MN</i></p>	<p>PANEL: Utilization of Quality Charge Materials in Coreless Induction Furnace Melting (26-120)</p> <p><i>Leonard Basaj, Metal Technologies Ravenna Ductile Iron Plant, Ravenna, MI; Aaron Gorwell, Beacon Recycling, Inc., Muskegon, MI; Ryan Sneddon, EJ, Elmira, MI; Greg Benz, Mueller & Company, Rosemont, IL</i></p>
	<p>This panel session focuses on the selection and management of quality charge materials specifically for coreless induction melting. The panel includes representatives from a scrap supplier, a pig iron supplier, and a foundry with a coreless melting operation. The following topics will be covered: identifying and sourcing high-quality scrap, evaluating and specifying pig iron and other charge component, monitoring and testing the quality of raw materials, impacts of poor charge material quality on melt operations and casting outcomes, common issues encountered during the transition from cupola to coreless melting, supply chain challenges (current trends and outlook), strategies for building reliable supplier relationships, cost vs. quality considerations in material selection, and environmental and sustainability factors influencing material choices.</p>

<p>MOLDING METHODS & MATERIALS DIVISION</p> <p>Room: Grand Gallery A</p> <p>Session Chairs: <i>Chris Lee, Carpenter Brothers, Inc., Kalamazoo, MI; Chuck Gerth, Amsted Rail, Granite City, IL</i></p>	<p>Assessing the Use of 3D Printed Patterns for Use in Investment Casting (26-033)</p> <p><i>Amal Woolridge & Alan Druschitz, Virginia Polytechnic Institute and State University, Blacksburg, VA</i></p>
	<p>Foundries commonly use wax to create patterns for investment casting. Wax use can lead to material waste and increase the time needed to produce parts, as wax patterns frequently need to be corrected, often by hand. Utilizing 3D printed patterns offers the opportunity to increase the precision of casts as well as reduce material waste, especially within smaller scale operations with custom patterns. Two filaments, Polylactic Acid and PolyCast, were compared. For this investigation, four patterns of differing shape and in-fill were printed using both filaments. Using the shell method of investment casting, a ceramic mold was created from the patterns. These molds were sintered and poured using grey iron. Throughout this process, the molds and final cast were observed to assess the differences between each type of filament and their viability for investment casting, with less damage observed on the PolyCast molds once the pattern was burned out.</p>
	<p>Evaluation of Mullite Based Slurries for Steel Investment Casting (26-055)</p> <p><i>Nicholas Costleigh & Nathaniel Bryant, University of Northern Iowa, Cedar Falls, IA</i></p>
<p>This paper presents a comparative study of zircon- and mullite-based slurry systems used in investment casting of steel. Traditionally, zircon is used in the primary slurry with fused silica as backup. At the University of Northern Iowa, trials were conducted using a mullite-based system for both primary and backup coats. The study outlines the formulation of the mullite slurry and evaluates its performance against zircon-based systems using key quality control metrics: Zahn cup viscosity, plate dip behavior, pH, and solids content. Casting trials were performed using both wax and 3D-printed bars, which were autoclaved, cast, and assessed for surface finish. Ping-pong ball dips were used to evaluate shell permeability, and preserved shell material was tested for compressive strength. This comprehensive testing regimen provides insight into the viability of mullite as a cost-effective and performance-competitive alternative to zircon in steel investment casting.</p>	

10:30 – 11:30 a.m.

<p>KEYNOTE</p> <p>Room: Steelcase Ballroom C</p>	<p>Nothing Can Stop You (26-141)</p> <p><i>Jim Abbott, Former Major League Baseball Pitcher and Olympic Gold Medalist</i></p>
	<p>Jim Abbott, a remarkable athlete and inspirational figure, delivers a powerful message of resilience, determination, and overcoming adversity. Born without a right hand, Abbott's journey to becoming a Major League Baseball pitcher is a testament to the human spirit's boundless potential. He also received a Gold Medal as an Olympian the first time baseball was an Olympic sport, and a University of Michigan Golden Spikes Award, the highest honor in college baseball.</p>
	<p>His presentations are a blend of heartfelt storytelling, unwavering optimism, and a profound belief in the power of perseverance. His talk explores how do we learn to be grateful for the circumstances we are born into? And in the end, how we all can come to celebrate the challenges that make us who we are. Expect to be deeply moved and motivated as Abbott shares his experiences of defying the odds and achieving greatness in the face of challenges.</p> <p>Abbott's approach is relatable and down-to-earth, emphasizing the importance of embracing differences, adapting to change, and never giving up on one's dreams. His talks transcend sports and touch on universal themes of courage, teamwork, and the potential that resides within all of us. His message resonates with audiences of all backgrounds, leaving a lasting impression that encourages individuals to strive for their personal best, regardless of the challenges they may face.</p>

11:45 a.m. – 1:15 p.m.

<p>EVENT</p> <p>Room: Steelcase Ballroom D</p>	<p>Volunteer Leadership Awards Luncheon (Ticket Required)</p>
<p>Join us for a lively, fast-paced Volunteer Leadership Awards Luncheon. This is a fantastic opportunity to reconnect with colleagues while AFS officers welcome four new board members. You'll also see the AFS Technical and Management Division Chairs present key national and divisional honors, including the Scientific Merit and Service Citation awards.</p>	

1:30 – 3 p.m.

<p>ADDITIVE MANUFACTURING DIVISION</p> <p>Room: Grand Gallery D</p> <p>Session Chairs: <i>Marshall Miller, Tesserract4D, Rock Spring, GA; Joe Hutto, Howell Foundry LLC, Saint Francisville, LA</i></p>	<p>Reducing Hot Tears and Hot Cracks using Sand-Embedded Lattice-Structured Printed Sand Molds (26-011)</p> <p><i>Michael Tims, Concurrent Technologies Corporation, Johnstown, PA; Mihaela Nastac, Arc Impact Acquisition Corporation Pittsburgh, PA; David Rajewski, Arc Impact Acquisition Corporation, Pittsburgh, PA</i></p>
<p>Hot tears and hot cracks may form in castings when high tensile stresses are present. When the mold or core doesn't allow the casting to move freely, tensile stresses develop within the casting, which may lead to hot tearing or cracking. One method to deal with these conditions is to use lower-strength sand, which may be achieved using a sand-embedded lattice structure. Silica sand blocks having a regular pattern of through holes were printed and tested by applying a compressive load until the sand blocks ruptured. The lattice structures showed up to 89% reduction in mold compressive strength versus solid sand blocks. Aluminum (A206) I-beam castings were then made. Crack length was determined from x-ray images. The results showed crack length was controlled by lattice geometry and casting thickness. The findings demonstrate the ability of sand-embedded lattice structures to reduce or eliminate hot tears or cracks in castings.</p>	

1:30 – 3 p.m.

ADDITIVE MANUFACTURING DIVISION Room: Grand Gallery D Session Chairs: <i>Marshall Miller, Tesserract4D, Rock Spring, GA; Joe Hutto, Howell Foundry LLC, Saint Francisville, LA</i>	Design Considerations for 3D Printed Sand Molds and Cores (26-024) <i>Dave Rittmeyer, Matthews Additive Technologies, Pittsburgh, PA</i>
	<p>Are your 3D printed sand molds and cores taking full advantage of what the technology has to offer? Could your 3D printed sand molds and cores you are receiving be improved? There are many design considerations to take into account when designing your 3DPS items. Yes, some of the traditional limitations can be ignored, but there are many that applicable. From mold partings to latticing molds and cores. Multiple projects will be reviewed to show options of what can be designed into 3DPS molds and cores.</p>

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: <i>David Weiss, Vision Materials, Manitowoc, WI</i>	Machine Learning and Artificial Intelligence Image Analysis as a Diagnostic Tool for Aluminum 356 Casting Defects (26-107) <i>Jackson Piontek & Brian Began, American Foundry Society, Inc., Schaumburg, IL; Carl Soderhjelm, University of California-Irvine, Irvine, CA</i>
	<p>A significant hurdle in solving casting defects is diagnosing them correctly. Often, foundries implement ineffective solutions to resolve defects because of an incorrect defect diagnosis. Many production hours can be wasted working on incorrect solutions with the problem being exacerbated as experienced foundry personnel and industrial subject matter experts who typically resolve these issues retire from the industry. A project was undertaken in hopes of creating a “defect app” to harness the capabilities of Machine Learning and Artificial Intelligence to automate defect diagnosis using imaging techniques commonly available to foundries. The project plan, scope, specifics, and status update will be presented and demonstrated. This Research is funded through the American Foundry Society, as part of the Aluminum Casting Performance Initiative, Emergent Metal Casting Solutions (EMCS) program, sponsored by the Defense Logistics Agency Information Operations, J68, Research & Development, Ft. Belvoir, VA and the DLA Troop Support, Philadelphia, PA.</p>
	The Influence of Alloy Scheil Factors on Skin Formation in High Pressure Die Casting (26-008) <i>Garrett Lange, Missouri University of Science & Technology, Rolla, MO; Jacob Belke, Mercury Marine, Fond du Lac, WI</i>
<p>In High Pressure Die Casting, a fine equiaxed and low-porosity surface layer called the skin often forms before transitioning to a coarser interior microstructure. Skin formation is often influenced by solidification time, heat transfer, and melt/die temperatures. However, a skin is not always observed even when the aforementioned factors are optimized to promote skin formation. This study explores how alloying elements, characterized by their Scheil factors, affect skin thickness. Fifteen binary aluminum alloys were created with elements spanning a range of Scheil values at 0.5 and 5 wt%, then gravity cast into a wedge-shaped copper die. The results showed more complex behavior than initially hypothesized and alternative skin-promoting element properties are discussed.</p>	

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: <i>David Weiss, Vision Materials, Manitowoc, WI</i>	Designing Structural Die Cast Aluminum Alloys from Automotive Twitch Scrap (26-065) <i>Gabriel Garcia, Michael Moodispaw, Jianyue Zhang, & Dr. Alan A. Luo, The Ohio State University, Columbus, OH</i>
	<p>In this investigation, three secondary structural alloys with intermediate impurity contents (Fe~0.5-0.6%, Cu~0.3-0.5%) were designed with the purpose of competing with, and eventually replacing, primary alloys such as EZ-Cast C611 by achieving high elongations close to 10%. The alloys were labeled as RS-1, RS-2, and RS-3, with RS-1 and RS-3 containing lower impurity content (~0.5% Fe and 0.3% Cu) and RS-2 containing slightly more Fe and Cu (~0.6% and ~0.5%, respectively). The RS-3 alloy also contained a small addition of Ce (~0.15%). These alloys were die-cast and later tested in the as-cast condition, with these samples achieving elongations ranging from 7-9% with maximum elongations in some cases reaching between 9-10%. RS-2 also underwent a T7 heat treatment which led to an average elongation close to 10%, with the maximum elongation exceeding the goal of 10%.</p>

CAST IRON DIVISION Room: Grand Gallery C Session Chair: <i>Brad Steinkamp, Charter Dura-Bar, Crystal Lake, IL</i>	PANEL: Thermal Analysis - Going Beyond C, Si, and CE (26-127) <i>Erol Ergin, Novacast USA, Naperville, IL; Ramon Suarez, Azterlan, Durango, Spain</i>
	<p>Spend some time with experts from the Cast Iron Division to see how you can take your molten metal to the next level. This panel will cover setup and maintenance of thermal analysis systems, how varying processes and techniques can impact results, obtaining and using baseline thermal analysis results for process controls, and the un-tapped potential most iron foundries are missing (going beyond carbon, silicon, and CE).</p>

1:30 – 3:30 p.m.

AFS INSTITUTE Room: Grand Gallery F	Metalcasting Process Basics - Part 2 (26-136) <i>Patrick Kluesner, Metal Technologies Inc. (MTI), Auburn, IN</i>
	<p>This course provides participants with a basic overview of the metalcasting process. Students will trace the path of a casting from quoting through shipping.</p>

3:15 – 4:45 p.m.

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: <i>Hideki Gebken, Standard Manufacturers Services Limited, Winnipeg, Manitoba, Canada</i>	Seasonal Impacts on the Artificial Age Response of Aluminum Castings Made in the Precision Sand Casting Process (PSCP) (26-094) <i>Robert Mackay & Glenn Byczynski, Nemak, Ontario, Canada</i>
	<p>Artificial Aging (AA) is an important post-casting process which brings about the required mechanical properties, hardness and dimensional stability required for vehicle applications. Most AA development for aluminum castings centers around both the strict control of the door-to-door duration, and tight adherence to target temperatures, both of which help meet the required material properties. However, the consistency of the ramp up to target temperatures, and then ramp down to room temperature, can play a role in the consistency of the mechanical property response. If the cooling down stage is done via fans which draw the air from outside, this could mean that seasonal effect on mechanical properties could be encountered. Consistency of the entire thermal path for the AA process is a critically important aspect which can support improved process optimizations and enhance the development of the Failure Mode Effects Analysis (FMEA) process, a requirement for metal castings and their subsequent heat treatment for automotive applications.</p>

3:15 – 4:45 p.m.

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: <i>Hideki Gebken, Standard Manufacturers Services Limited, Winnipeg, Manitoba, Canada</i>	Strategy for Chill Implementation in the Precision Sand Casting (PSCP) for Automotive Applications (26-095) <i>Robert Mackay & Glenn Byczynski, Nemak, Ontario, Canada</i>
	<p>The Precision Sand Casting Process (PSCP) is used to manufacture components in many Internal Combustion Engine (ICE) and Battery Electric Vehicle (BEV) applications. PSCP competes mainly with High pressure Die Casting (HPDC) and Gravity Semi-permanent Mold (GSPM) as they can manufacture the same type of products for the automotive space. In recent years the implementation of a chill in PSCP has refined the microstructure in targeted areas, which in turn improves both tensile and fatigue properties, potentially giving it a performance boost over the competing casting processes mentioned. However, chill implementation can have other drawbacks that can impact other parts of the final casting adversely. This work outlines the impact on the PSCP with a chill, and without a chill, on the casting's overall characteristics and heat treat response. From there the authors will compare the possibilities with the PSCP against competitive casting processes for the same automotive applications.</p>

CAST IRON DIVISION Room: Grand Gallery C Session Chairs: <i>Eric Nelson, Eric Nelson Consulting LLC, Mankato, MN; Angella Sell, Aalberts Surface Technologies, Livonia, MI</i>	Effects of Carbon Equivalent, Nodularity, Inoculation, Spruce Height, Riser Temperature on Wall Movement and Porosity Formation in Ductile Iron Castings (26-064) <i>Noah Brack, Shamsul Alam, Mingzhi Xu, & Jingjing Qing, Georgia Southern University, Statesboro, GA; Simon Lekakh, Missouri University of Science & Technology, Rolla, MO</i>
	<p>During the solidification and cooling of ductile iron, multiple phase changes occur, resulting in dynamic volume changes and exerting pressure on mold walls and internal cavities. Such pressure can deform mold walls and casting surfaces, resulting in swell and porosity defects. In addition, this pressure can also affect the shrinkage formation. This study aims to expand on previous work studying expansion and contraction of ductile iron during solidification and cooling by considering the effects of variables such as sprue height, riser, and pouring temperature on wall movement and porosity formation using a real-time wall movement measuring apparatus and image analysis of porosity.</p>
	Effect of In-mold Al, Ti and Ca Additions on Austenite Morphology, Grain Size and Mechanical Properties of Nickel-Alloyed Ductile Iron (26-074) <i>Adnan Adib Abamed, Jingjing Qing, & Mingzhi Xu, Georgia Southern University, Statesboro, GA</i>
<p>This research investigates the impact of in-mold additions of Al, Ti and Ca on the austenite morphology, grain size and mechanical properties of nickel-alloyed ductile iron. A hypoeutectic alloy with primary austenite phase was designed using thermodynamic calculations. Different alloying additions were placed into separate molds prior to the pour and the castings with various additions were produced for assessing their impact on the macrostructure, microstructure and tensile properties. Macrostructural analysis revealed the austenite grain structure. Microstructural examination with a scanning electron microscope (SEM) equipped with energy dispersive X-ray and automated feature analysis was used to classify the non-metallic inclusions dispersed in the matrix of the cast samples. Thermal analysis was utilized to reveal the solidification characteristic temperatures and tensile tests were performed. The results indicated effects of different additions on the austenite grain structure and resultant impacts on the mechanical properties of the nickel-alloyed ductile irons.</p>	

Schedule is subject to change.

CAST IRON DIVISION Room: Grand Gallery C Session Chairs: <i>Eric Nelson, Eric Nelson Consulting LLC, Mankato, MN; Angella Sell, Aalberts Surface Technologies, Livonia, MI</i>	Mutual Effects of Boron, Cooling Rate and Graphite Nodule Dispersion on Austenite Transformation in Pearlitic Ductile Iron (26-087) <i>Colleen Lebrer, Dr. Laura Bartlett, & Simon Lekakh, Missouri University of Science & Technology, Rolla, MO</i>
	<p>Boron is known to promote ferrite in spheroidal cast irons. The mechanism is unclear. Traditional characterization of the eutectoid transformation via in-mold continuous cooling has limitations because cooling rate and solidification structure are related. Therefore, dilatometric investigations were performed under controlled cooling for known dispersions of graphite nodules. Laboratory cast pearlitic Cu-alloyed SGI solidified with varying section thicknesses was investigated for sensitivity to boron contamination up to 60 ppm. Graphite dispersity of as-cast condition was determined for dilatometry specimens, which were austenitized at 1000°C and subjected to controlled cooling at different rates through the eutectoid transformation. Quantitative analysis of microstructure and dilatometric curves were used to characterize the mutual effects of boron contamination, cooling rate, and solidification structure. These results could be used in future to optimize casting processes.</p>

MOLDING METHODS & MATERIALS DIVISION Room: Grand Gallery A Session Chairs: <i>Liam Miller, American Colloid Co., Hoffman Estates, IL; Pete Gravunder, Badger Mining Corp. Berlin, WI</i>	The Case for a Faster Methylene Blue Clay Test (26-027) <i>Brian Rachwitz, Saginaw, MI</i>
	<p>The MB clay procedure, as recommended by Centre Technique des Industries de la Fonderie (CTIF), has been used for many years by European foundries. This test provides significantly faster test results than the current standard AFS Methylene Blue clay tests, without sacrificing any accuracy. This presentation will focus on the background of the test and present a case for acceptance of a new procedure utilizing these techniques.</p>
	SILVER ANNIVERSARY LECTURE: Visualization of the Thermal Distortion of Disc-Shaped Chemically Bonded Sand Specimens for AI Developments (26-037) <i>Dr. Sam Ramrattan, Western Michigan University, Kalamazoo, MI</i>
<p>Chemically bonded sand cores and molds are an important part of metal casting technology, and the mold-metal interface is of great technical interest to the industry. The metal casting industry has been placing a strong emphasis on near-net-shape and thin wall castings, while simultaneously maintaining increasingly stringent dimensional reproducibility requirements. The Thermal Distortion Test (TDT) has proven to be an effective laboratory testing methodology for measurement of distortion in chemically bonded sand-binder specimens, and to determine the presence of undesired casting features for more than twenty-five years. This paper presents a 3D visualization tool that can assist design engineers in deeper comprehension of thermal deformation characteristics of the sand binder system throughout the casting process. Specific benefit to foundry engineers is 3D graphical visualization of the deformation at various temperature and head pressure.</p>	

Schedule is subject to change.

3:15 – 4:45 p.m.

STEEL DIVISION Room: Grand Gallery D Session Chair: Mark Osborne, Wabtec, Haslet, TX	Steel Thermal Analysis: A Review (26-105)	<i>Dr. Robert Tuttle, Western Michigan University, Kalamazoo, MI</i>
	Thermal analysis of steel has a long history of development. This paper presents a basic introduction to the technique and its historical development. The author reviews current challenges with the technique and where research must be done to improve it. Additionally, future applications that will have the greatest impact on foundry process control are outlined.	
	Characterization of Laser Micro Welds in Steel Castings (26-076)	<i>Allan Woldow, Dr. Laura Bartlett, Mario Buchely, Elias Snider, & Ming Leu, Missouri University of Science & Technology, Rolla, MO; Jim Barlow, Caterpillar, Inc., Mapleton, IL</i>
	The effect of laser welding as a repair method of small casting defects, and the microstructural and hardness response to this repair in a steel casting, was investigated. Y-Blocks of SAE 8630 steel were produced through melting of the alloy constituents in a coreless induction furnace and subsequent pouring into resin-bonded sand mold keel blocks. The keel blocks were then quenched and tempered to provide a tempered martensite microstructure. Blocks were then sectioned into test coupons for laser welding and analysis. Various welding parameter sets were used to produce welds which were evaluated by means of micro-CT scanning, microscopy, and microhardness. This data was used to generate idealized parameter sets for future mechanical testing work to ultimately understand the overall effect of laser welding on cast steel products. In addition to evaluating the as-welded structure, tempering studies were conducted to determine if tempering would be a value-added process.	
	Tensile and Fatigue Analysis of Laser ‘Micro’ Welds in Steel Castings (26-077)	<i>Allan Woldow, Elias Snider, Laura Bartlett, Mario Buchely, & Ming Leu, Missouri University of Science & Technology, Rolla, MO; Jim Barlow, Caterpillar, Inc., Mapleton, IL</i>
	The effect of laser welding as a repair method for small casting defects, and the microstructural and hardness response to this repair in a steel casting, was investigated. Y-Blocks of SAE 8630 Steel were produced through melting of the alloy constituents in a coreless induction furnace and subsequent pouring into resin-bonded sand mold keel blocks. The keel blocks were then quenched and tempered to provide a tempered martensite microstructure. Blocks were then sectioned into tensile bars and fatigue bars for mechanical testing. This testing was designed to determine how detrimental laser welding could be on mechanical properties and to determine if laser welding is a viable repair method. Fractography of the broken fatigue bars was used to provide insight into the initiation of the failure to determine if it was related to the welding process. Post weld tempering also explored to view any potential property increase compared to as-welded.	

6 – 7 p.m.

Room: Amway Grand - Crown Foyer	Annual Banquet Reception (Cashless Bar)
Kick off the Annual Banquet with great conversation and familiar faces. The cashless bar opens at 6 p.m.	

7 – 9 p.m.

Room: Amway Grand - Ambassador Ballroom	Annual Banquet (Ticket Required)
Join us for an evening of business networking and celebration, including presentation of AFS’s highest honor—the AFS Gold Medal—and the 2025 William J. Grede Recipient.	
Cashless bar: 6 p.m. Awards presentation & banquet: 7 p.m. President’s After-Party: 9 p.m.	
Dress Code for the AFS Banquet - Traditional business attire, including suits, sports coats, pantsuits, or dresses. This is not a black-tie event.	

9 – 10 p.m.

Room: Amway Grand - Ambassador Ballroom	Presidents' After-Party (Cashless Bar)
Keep the celebration going at the President’s After-Party—an upbeat, post-banquet hangout to toast the evening’s honorees, swap stories from the night, and catch up with friends old and new. Grab a drink, relax, and enjoy some easy networking as we close out the night AFS-style.	

Wednesday, April 15, 2026

7 a.m. – 5 p.m.

Room: Grand Gallery	Registration Open
Attendee Bags Sponsored By:	
Lanyards Sponsored By:	
 	

7 – 8 a.m.

Room: Galley Overlook GH	Author/Chair Breakfast
This breakfast is for AFS speakers, session chairs, students and staff to meet and coordinate details for the day’s educational sessions.	

7:30 – 10:30 a.m.

Room: Grand Gallery	Coffee Station by AFS Technical Sessions
Sponsored By:	
  	

8-9 a.m.

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: Luke Schimmel, Fairbanks Morse Defense, Brodhead, WI	New Approaches to Nano-Composite Production (26-135) <i>David Weiss, Vision Materials, Manitowoc, WI</i>
	Distribution of nanocomposites in molten aluminum is always an issue. The particles tend to cluster, and once clustered are difficult to de-agglomerate. As important are the changes to the bulk alloy as wetting elements are pulled from the matrix, requiring chemistry adjustments. This presentation looks at new techniques to mitigate clustering and quantifies chemistry changes to retain proper response to heat treatment.
	Effect of Solution Heat Treatment Time on A356-T6 Static and Dynamic Properties (26-101) <i>David Weiss, Vision Materials, Manitowoc, WI</i>
It is well known that the heat treatment of most aluminum alloys has a direct impact on both the static and dynamic properties of the materials, yet considerable latitude is allowed on the solution time guidelines given in various references. For A356-T6, the time suggested at the solution temperature (1000 F) in the Aluminum Association's Standards for Aluminum Sand and Permanent Mold Castings is given at between four and twelve hours depending on product form. Most specifications allow for this if static mechanical property requirements are met. This project considered fatigue performance over a range of solution times where fatigue performance is important, along with potential methods to monitor completion of the solution cycle. The results suggest that the solution time has some impact on fatigue properties and revealed that other factors, such as Si modification and quench delay can also have important effects.	

CAST IRON DIVISION Room: Grand Gallery C Session Chair: David Gilson, SinterCast, Inc., Pewaukee, WI	CAST IRON HONORARY LECTURE: Changes/Lessons learned in the NA Cast Iron Industry from the 80's to Present (26-143) <i>Robert Logan, Elkem Silicon Products, Ontario, Canada</i>
	Since the 1980's the North American Cast Iron Industry has evolved significantly. In this lecture, the presenter will dive into some of the industry changes and share some lessons learned during the past 5 decades. This will include but may not be limited to; A Macro look at the Industry, Foundries and Locations, Raw materials/Melting, Metallurgy - Treatment and Inoculation of iron, Change and Business Management.

ENVIRONMENTAL, HEALTH & SAFETY DIVISION Room: Grand Gallery E Session Chair: Tom Slavin, Slavin Osb Group LLC, Chicago, IL	PANEL: EHS Hot Topics (26-133) Air Quality: <i>Jeet Radia, McWane, Inc., Birmingham, AL</i> Water, Waste & Byproducts Management: <i>Dan Plant, Metal Technologies, Auburn, IN</i> Safety & Health: <i>Mickey Hannum, McWane, Inc., Birmingham, AL</i>
	Updates from the EHS Committees.

MOLDING METHODS & MATERIALS DIVISION Room: Grand Gallery A Session Chairs: Pete LeBlang, Betz Industries, Grand Rapids, MI; Brian Rachwitz, Saginaw, MI	Cold-Box Core Production Process Optimization Using Simulation (26-035) <i>Thomas Brandt & Peter Blaser, CPFD Software, Houston, TX; John Letts, LAEMPE REICH, Trussville, AL</i>
	Simulation of metal flow and solidification processes is well established in the metal casting industry. In recent years there have been numerous attempts to expand metal flow software to capture sand flow behavior. This presentation introduces Arena-flow, custom foundry simulation software that computes the air-driven sand motion central to the blowing/shooting and curing of sand cores and molds, and how it is used to optimize design, equipment, and process considerations. Concepts are illustrated using a case study from a North American foundry undergoing a conversion from greensand molding to cold-box cores and molds. The Laempe Reich team presents their work and experience including how simulation was used to optimize processes and cores that were "right the first time". Guidance is provided for OEMs, foundries, and core/patterns shops seeking similar outcomes.
	Transforming Green Sand Management with AI and Industry 4.0 (26-044) <i>Deepak Chowdhary & Rabul V, MPM Infosoft Pvt. Ltd., Maharashtra, India; Chris Kelly, Cadillac Casting, Inc., Cadillac, MI</i>
Green sand system control is challenging due to interdependent parameters, job-mix variations, and limited real-time data. Traditionally reliant on domain experts, sustaining this expertise is increasingly difficult with today's high workforce turnover and growing quality demands. This paper presents the joint implementation of an AI-driven green sand optimization platform at Cadillac Casting Inc. (CCI), as part of its Industry 4.0 initiative. The system combines real-time data acquisition, advanced analytics, and AI to monitor, correlate, predict, and optimize key sand parameters. By modelling property interdependencies and simulating return sand characteristics, it prescribes dose-by-need additives to maintain optimal sand parameters. This digital transformation has shifted CCI's approach from reactive troubleshooting to proactive, predictive management improving process consistency, and embedding data-driven decision-making. The case study demonstrates AI's potential to address persistent sand control challenges and strengthen operational resilience.	

STEEL DIVISION Room: Grand Gallery D Session Chair: Laura Bartlett, Missouri University of Science & Technology, Rolla, MO	Clean Steel Castings at Ultralow Pouring Temperatures for High Performance Applications Using the Innovative ROTOCLENE Process and HOLLOTEX Shroud (26-025) <i>David Hrabina, Foseco International Limited, UK</i>
	Tapping molten metal to the pouring ladle causes metal splash and re-oxidation forming non-metallic inclusions. This paper describes a ceramic rotor treatment creating a curtain of fine argon bubbles swirling through metal which lifts inclusions up and homogenizes the temperature of the metal throughout the ladle and allows desulfurization by stirring under synthetic slag. HOLLOTEX Short Shroud protects the clean steel from re-oxidation and air entrainment during the casting process. Positioned in a metallic coupling set, it creates a sealed pressurized path from the Nozzle, via standard ceramic downsprue to the choke located in the diverter under the casting. A diverter distributes non-pressurized metal through the ceramic gating system into the mold cavity. Significant quality and productivity improvements are achieved due to the elimination of oxide and bifilm formation, improved surface quality of the castings, significant reduction of X-ray, MPI and ultrasonic detected defects.

8 – 10 a.m.

AFS INSTITUTE Room: Grand Gallery F	Preview: Introduction to Supervisor Development (26-138)	<i>Patrick Frazier, ME Global, Inc., Tempe, AZ</i>
	Introduction to Supervisor Development is beneficial to those who have been recently promoted from hourly or salaried ranks who have little previous experience in supervision.	

9 a.m. – 6 p.m.

Room: Hall B-C	Exhibit Hall Open
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9:15 – 9:45 a.m.

CASTING DESIGNERS & BUYERS Room: Casting Source Theater Session Chair: Kim Phelan, <i>American Foundry Society, Inc., Schaumburg, IL</i>	Project RCP-COE: Simplifying DOD Casting Requirements for the Foundry (26-119)	<i>Brian Began, American Foundry Society, Inc., Schaumburg, IL; Donald Deptowicz, Renaissance Services, Berthoud, CO</i>
	This presentation will report on the status of a pilot program for the “Rapid Cast Parts – Center of Excellence” (RCP-COE). The project, which runs from September of 2025 until October of 2026, allows participating foundries, with or without full DOD supplier credentials, to be a casting supplier to the DOD. The presentation will advise on the project’s efforts to date, discuss specifics on how and why to get involved, cite examples of challenges that needed to be overcome within the program in supplying DOD castings, and discuss the program and emerging program futures.	

9:15 – 10:15 a.m.

ALUMINUM & LIGHT METALS DIVISION Room: Grand Gallery B Session Chairs: Mark Osborne, <i>Wabtec, Fort Worth, TX</i>	Measuring the Effective Heat Transfer Coefficients at the Mold-Metal Interface in a Sand Casting for the Purpose of Solidification Modeling (26-013)	<i>David Levasseur, Gheorghe Marin, & Franco Chiesa, Centre de Metallurgie du Quebec, Quebec, Canada; Jimmy Simard, Quebec Metallurgy Center</i>
	Using a reliable value for the interfacial heat transfer coefficient (HTC) at the sand-metal interface for the purpose of modeling the filling and solidification inside a mold is a recurrent problem. Numerous tests for simple geometries showed that HTCs vary during filling and solidification. The interfacial heat exchange involves phenomena (evaporation/cracking of the binder) which cannot be practically modeled, so that an “effective” value of IHTC is usually defined. For this reason, the “effective value” should be determined in-house for the conditions of a given foundry. In this paper, a method is demonstrated on a magnesium ZE41A casting; 12kg (26lb) poured metal, 6kg (14lb) trimmed casting, using the response of 4 thermocouples located in selected risers of the cast cluster.	

CAST IRON DIVISION Room: Grand Gallery C Session Chair: Kramer Pursell, <i>Metal Technologies Auburn Casting Center, Columbia City, IN</i>	Thermal Analysis for Gray Iron: A Reliable Tool for Tensile Strength Predictions for Cupola and Coreless Melting (26-007)	<i>Leonard Winardi, Charlotte Pipe & Foundry Co., Oakboro, NC</i>
	Accurate prediction of tensile strength is essential in iron foundry. Traditional chemistry-based models, such as the Alloy Factor and Carbon Equivalent (CE), often fail to capture solidification effects and graphite nucleation, which strongly influence mechanical properties. Thermal Analysis (TA), which interprets cooling curve behavior, offers a faster, more accurate alternative. This study compares Alloy Factor and TA methods using production data from both cupola and coreless induction furnaces. TA relies on three key parameters—ACEL, TELOW, and GRF2—that reflect composition and graphite morphology, collectively explaining over 80% of strength variation. Prediction performance was evaluated using a failure criterion: predicted UTS higher than actual, or underprediction greater than 2,500 psi. TA reduced failure rates from 19% to 2% in cupola operations and from 28% to 2% in coreless melting. These results highlight TA’s superior accuracy and practicality for real-time tensile strength prediction in gray iron foundries.	
	Increasing Ductile Iron Melt Cleanliness, Yield and Fluidity by Avoiding Oxide Formation during the Melting Process (26-084)	<i>Shelly Dutler, Jared Kerker, Gaylan Beasley, & Peter Strothkamp, Refractory & Insulation Supply, Eldridge, IA</i>
A manufactured, charge mix compatible aggregate introduced during ductile iron melting has been shown to reduce slag weight and increase fluidity without changing the ratio of returns, type of steel materials or increasing pig iron. Controlling oxygen during the ductile iron melting process results in less slag and improved slag consistency which increases the ease of removal. This reduces the operator’s time around the furnace and furnace downtime for slag related cleaning and repairs. In addition, a cleaner melt as defined by fewer oxide inclusions in the liquid iron promotes increased fluidity. These improvements were proved in controlled variable foundry lab experiments and industrial scale trials and assessed with quantitative and qualitative measurements.		

9:15 – 10:15 a.m.

<p>ENGINEERING & SMART MANUFACTURING DIVISION</p> <p>Room: Grand Gallery A</p> <p>Session Chair: <i>Francois Audet, Foundry Solutions Metallurgical Services Inc., Capitale-Nationale, Quebec, Canada</i></p>	<p>2026 Plant Engineering Award Presentation: Blast Cleaning Technologies (26-144)</p> <p><i>Carl Panzenbagen, Blast Cleaning Technologies, West Allis, WI</i></p>
	<p>This presentation provides a comprehensive overview of the development, capabilities, and operational readiness of BCT Cast Products' new foundry. The project spans more than 1,500 combined facility and equipment line items, documenting the transformation from an empty 80,000 sq-ft machine shop into a fully functional molding and casting operation. It highlights significant milestones, including a 21-month design and build process leading to first production pours in July 2024.</p>
	<p>The presentation details two major molding processes—Airset No-Bake and Investment Casting—supported by advanced technologies such as 3D sand and investment cast printing, real-time plant monitoring via a master control cabinet, and robotic grinding systems. Key equipment, sand reclamation methods, melting capabilities, and finishing operations are reviewed to demonstrate the facility's end-to-end manufacturing capabilities. Additional focus is placed on engineering challenges overcome during startup, innovations in ergonomics and automation, and ongoing initiatives in odor control, environmental compliance, and new product development.</p> <p>The result is a modern, vertically integrated, highly flexible foundry designed for speed, quality, and continuous innovation, capable of producing a wide range of alloys while supporting rapid prototyping and scalable production.</p>

<p>MELTING METHODS & MATERIALS DIVISION</p> <p>Room: Grand Gallery D</p> <p>Session Chair: <i>David Kasun, ATD Engineering & Machine, Au Gres, MI</i></p>	<p>Cupola Efficiency Benchmarking and Scope 1/2 Emissions Determination (26-122)</p> <p><i>Chris Rostad, Kuttner North America, Port Washington, WI</i></p>
	<p>The determining factors of cupola efficiency will be reviewed and the method for calculating TPK efficiency benchmarking will be presented. A logical method to accurately calculate Scope 1 and Scope 2 CO2 emissions will also be presented. This will give consideration to fuel properties, energy inputs from pollution control system and prime movers, as a function of cupola metal throughput (tph). The concept of carbon sequestration (metallurgical carbon pickup in the cupola) and how to account for this (LCA of cast iron) will be discussed.</p>
	<p>Two Paths to Cupola Decarbonization: Increased Process Efficiency & Carbon Neutral Fuels (26-123)</p> <p><i>John Gatewood, ATD Engineering & Machine, Au Gres, MI</i></p>
<p>The primary path to maximizing cupola efficiency is via fuel reduction through cupola equipment and process optimization. The technical factors that affect efficiency will be presented along with descriptions how to optimize them. The secondary path (extremely significant) is through the use of carbon-neutral cupola fuels/alloys. Some examples of how this is done will be presented. Since there are currently no significant regulatory pressures in the US to decrease GHG/CO2 emissions, we will present some specific, successful case studies in other countries and regions (with strong decarbonization policies), where tremendous carbon footprint reduction success has been realized through the use of carbon-neutral/non-fossil fuels.</p>	

<p>WOMEN IN METALCASTING</p> <p>Room: Grand Gallery E</p> <p>Session Chair: <i>Maddie Wilson-Smith, Pittsburgh Foundry & Machine Co., Derry, PA</i></p>	<p>Navigating Burnout with Resilience (26-130)</p> <p><i>Sabrina Moon, Problem Solving Institute, LLC, Chicago, IL</i></p>
	<p>This interactive, one-hour session blends real-world manufacturing insights with research-based tools for managing stress, fostering reflection, and enhancing emotional resilience. Participants will explore:</p> <ul style="list-style-type: none"> • The top three burnout triggers in manufacturing and operations environments • Practical strategies to strengthen resilience at work and at home • Tools to support well-being, self-reflection, and emotional regulation • Actionable handouts with practical takeaways <p>Thank you to our Women in Metalcasting Sponsors:</p>

9:45 – 10:30 a.m.

<p>CASTING DESIGNERS & BUYERS</p> <p>Room: Casting Source Theater</p> <p>Session Chair: <i>Kim Phelan, American Foundry Society, Inc., Schaumburg, IL</i></p>	<p>Update on AFS Project for Digitizing Various Knowledge Platforms (26-009)</p> <p><i>Brian Began, American Foundry Society, Inc., Schaumburg, IL</i></p>
	<p>This presentation is on AFS's efforts to improve the digital accessibility and operability of its various knowledge platforms. This project has already yielded AFS Library enhancements such as the Liberty Link app, the "My Catalog" feature, library tutorials, and the AFS Library Enhanced AI Search Tool, as well as an improved storefront and webinar platform. This third installment presentation will focus on recent enhancements of the aforementioned, as well as provide updates on CADs and other derivative service enhancements including live demonstration of the brand new AFS E pubs platform targeted for launch in April 2026. Ultimately, it will highlight the various exciting ambitions with projected timelines of the ongoing AMC Emergent Metal Casting Solutions (EMCS) project, funded by the Defense Logistics Agency (DLA) and AFS under the project title "Virtual Knowledge Transfer Platforms for Improved Access to Metalcasting Best Practices".</p>

10:30 – 11:30 a.m.

<p>HOYT MEMORIAL LECTURE</p> <p>Room: Steelcase Ballroom C</p>	<p>Foundry Manufacturing: Where Metallurgy Meets Mastery Exploring the Dual Nature of Casting as Both Art and Science and its Unique Place in Manufacturing Technologies (26-097)</p> <p><i>Randall Oebrlein, Carley Foundry, Blaine, MN</i></p>
	<p>Foundry processes represent a unique intersection of art and science, blending precision engineering with creative problem solving. The science aspect is evident in metallurgy, thermodynamics and fluid mechanics, which dictate material behavior, casting integrity and defect prevention. Simultaneously the artistic dimension emerges in mold design, pattern-making, and the nuanced expertise required to manipulate molten metal into complex high-quality components. Mastery in foundry operations requires both empirical knowledge and intuitive craftsmanship, as professionals navigate variables such as material composition, cooling rates and intricate geometries. This synthesis of technical rigor and creative adaptation underscores the essential duality of foundry work, making it a field where science ensures reliability, while artistry refines excellence. This paper looks at the nature of manufacturing and how the foundry industry has, and will continue to, straddle science and art.</p>

11:30 a.m. – 1:30 p.m.

EVENT	Past Presidents' Luncheon
Real Seafood Company	Celebrate AFS tradition at the AFS Past Presidents Luncheon—an opportunity to connect, reflect, and honor the leadership that has helped define AFS. <i>Must be a previous AFS President to attend. Registration necessary.</i>

11:45 a.m. – 1:15 p.m.

EVENT	Women in Metalcasting Luncheon
Room: Steelcase Ballroom D	This event is open to AFS members of Women in Metalcasting. It includes lunch, networking, the presentation of the AFS Women in Metalcasting Award of Excellence, and the presentation of Jean Bye AFS Women in Metalcasting Scholarship. <i>Thank you to our Women in Metalcasting Luncheon Sponsors:</i>
	

11:45 a.m. – 12:45 p.m.

Room: Casting Source Theater	IJMC/FEF Student Research Competition
	The IJMC/FEF Student Research Competition empowers undergraduate college students to showcase their metalcasting research projects at CastExpo. Winners will earn scholarships and be published in the International Journal of Metalcasting!

1 – 1:25 p.m.

SPONSORED PRESENTATION	Foundry Planning: More than Just the Sum of Machines and Processes (26-150)	<i>Huib van der Weiden, GEMCO Cast Metal Technology, The Netherlands</i>
Room: Casting Source Theater	Gemco stands for 50 years of independent foundry consulting and engineering expertise and 1500+ foundry projects realized worldwide. How independent engineering translates into the best performing, customized foundry system. From concept and feasibility, through system integration and interface engineering, to implementation and performance. Gain insights into the accumulated knowledge of castings markets, cast products and metal casting, -applied, tested, and proven- through generations of consulting, engineering, and implementation projects in the foundry industry.	
		

1:30 – 3 p.m.

ENVIRONMENTAL, HEALTH & SAFETY DIVISION	Safety Improvement on the Red Zones Thanks to Smart Robotics (26-029)	<i>Diego Soares, POLYTEC NORTH AMERICA, Sorocaba, São Paulo, Brazil</i>
Room: Grand Gallery C	A newly developed robotics range, designed specifically for induction furnaces automates the sampling and other functions, ensuring precise and consistent results while safeguarding operators from direct exposure to the high-temperature environment. Equipped with optional pouring and deslagging tool, the sampling robot provides foundries with a reliable and safe alternative for slag removal, reducing manual intervention and associated risks. As foundries face increasing demands for safer and more efficient processes, proven robotics technology make it a trusted partner for advancing operational standards.	
Session Chair: <i>Brent Charlton, Metal Technologies Corporate Center, Auburn, IN</i>	Best Practices for Bag Leak Detection Systems in Clean Air Act Permitting (26-068)	<i>Caleb Swanson & Vahid Mirsaii, Auburn FilterSense LLC, Beverly, MA</i>
	Due to heightened concern in environmental control, pollution of our environment has become an increasingly important problem. The United States Environmental Protection Agency (EPA) has implemented rigorous regulations for improving air quality by controlling the emission of pollutants from stationary sources such as steel mills, smelters, and foundries. These industrial processes plants in the United States face the burden of operating Bag Leak Detection System after each fabric Filter baghouse. This presentation recommends best practices for the installation and operation of BLDS monitors used for compliance with Clean Air Act (CAA) requirements. These best practices are for consideration in CAA permitting actions involving fabric filter control devices. The best practices discussed herein are more suitable for triboelectric, charge induction BLDS monitors.	
	A Simple Guide for Dealing with Citations (26-100)	<i>Brian Bigley, Clow Valve, Oskaloosa, IA</i>
	A Simple Guide for Dealing with Citations” is a quick primer for beginners in the Conference/Contestment process. Conferencing your citation is the first step in any situation where you believe your company has been wrongfully or incorrectly cited. It is a process that runs alongside Contesting a citation. We will discuss the difference between the two processes, and how to prepare for both, as you proceed with the typical first step, a conference.	

1:30 – 3 p.m.

ENGINEERING & SMART MANUFACTURING DIVISION Room: Grand Gallery A Session Chair: <i>Eric Nelson, Eric Nelson Consulting LLC, Mankato, MN</i>	PANEL: Melting Choices - Evaluating Cupola and Induction in Today's Foundry Landscape (26-082) <i>David Kasun, ATD Engineering & Machine LLC, Au Gres, MI; Michael Looby, Inductotherm, Rancocas, NJ; Sabil Makwana, Bingham & Taylor Corp., Culpeper, VA</i>
	This session is designed to help foundries make informed decisions about furnace investments and operations based on their unique regional, regulatory, and supply chain circumstances.

GOVERNMENT AFFAIRS DIVISION Room: Grand Gallery B Session Chair: <i>Stephanie Salmon, American Foundry Society, Inc., Washington DC; Brad Muller, Charlotte Pipe & Foundry Co., Oakboro, NC</i>	Overview of the US Department of Commerce's Fourth Coast U.S. Shipbuilding Summit - August 2026 - Growing the Regions Shipbuilding Sector (26-154) <i>Allie VanDriel, Acting State Director – Michigan, Senior International Trade Specialist, U.S. Commercial Service, U.S. Department of Commerce, Grand Rapids, MI</i>
	Learn about the U.S. Department of Commerce's Fourth Coast Shipbuilding Summit, which will take place in Detroit, Michigan this August. The three-day summit is part of a major effort across the various government agencies to revitalize U.S. shipbuilding and maritime industries. The summit will convene U.S. suppliers, potential investment sites, major shipbuilders, economic development organizations (EDO's), and international investors, and U.S. investors to grow the region's shipbuilding sector.
	Inside the Latest U.S. Trade Policy & Tariff Shifts Impacting U.S. Metalcasters (26-155) <i>Milton Koch, International Trade Advisor, Buchanan, Washington D.C.</i>
Learn the latest on the Trump's Administration's trade and tariff actions and the implications for the U.S. metalcasting industry. The session will also preview what we can expect in trade in the months ahead, from additional tariffs to the USMCA six-year review to numerous reciprocal trade deals.	

METALCASTING RESEARCH Room: Grand Gallery D Session Chair: <i>Mark Adamovits, Matthews International Corp., Searcy, AR</i>	Comparison of 3D Scanners for Casting Defect Characterization (26-106) <i>Dr. Robert Tuttle & Dr. Lee Wells, Western Michigan University, Kalamazoo, MI</i>
	This research compared the performance of a high-resolution industrial 3D optical profilometer to a consumer grade 3D scanner for defect scanning. Artificial vein and burn-on defects were created using 3D printed cores. These were then used to produce aluminum castings with artificial defects on them. Those defects were scanned using both systems and the resulting 3D point clouds compared. The consumer grade unit produced scans with less surface detail. However, there was very close agreement between the two systems when examining veins and burn-ons. This suggests that consumer grade 3D scanners can assist in creating systems for automatic surface defect detection for cast surfaces.

METALCASTING RESEARCH Room: Grand Gallery D Session Chair: <i>Mark Adamovits, Matthews International Corp., Searcy, AR</i>	Classification of Cast Surface Defects (26-060) <i>Dr. Robert Tuttle, Nachiket Shinde, Dr. Sam Ramrattan, & Dr. Lee Wells, Western Michigan University, Kalamazoo, MI</i>
	The performance, aesthetics, and functioning of cast components are all severely impacted by surface defects in castings. Some examples of surface defects are veins, penetration/burn-on, rat tails, and erosion. Within the scope of this investigation, a thorough classification strategy for veins and penetration/burn-on defects was investigated through the application of modern surface scanning and machine learning approaches. A Keyence VR-3000 G2 was used to collect 3D point cloud data. The point cloud data that was obtained was then converted into solid models for creating additional defects for the development of a classification model. Experimental castings were carried out with a variety of process parameters to create a larger variation in surface roughness. This was then followed by surface analysis to extract important characteristics. Machine learning algorithms, such as decision trees and random forests, were utilized to construct and evaluate their ability to classify the defects. These models were developed by utilizing surface roughness and volumetric data. Based on the findings, it was determined that models that utilized volumetric data attained a better level of accuracy, which offered useful insights into the classification of defects. The findings of this study illustrate the possibility for automated defect classification.
	Effect of Process Variables on Surface Defects in Aluminum Castings (26-063) <i>Dr. Robert Tuttle, Nachiket Shinde, Dr. Sam Ramrattan, & Dr. Lee Wells, Western Michigan University, Kalamazoo, MI</i>
	Aluminum castings continue to be impacted by surface defects including veining, burn-on, and metal penetration, which are mostly caused by intricate relationships between process variables and mold material behavior. This study examines how the surface quality of aluminum alloy castings are affected by process variables, such as the mold compaction method, head height, sand type, binder percentage, and pouring temperature. 319 aluminum poured against disc-shaped sand samples, made with silica and ceramic sand. A high-resolution 3D optical profilometry was used to quantitatively characterize surface defects, allowing for the extraction of geometric attributes and the generation of new attributes for predicting whether there is a defect or not. Using a multivariate dataset of 142 samples, neural networks and deep learning models were created to predict whether there is a defect or not. The circularity * max height/perimeter (cir *MH/P) attribute was generated as a scale-independent measure of the magnitude of surface defects, combining vertical intensity and form fidelity. Early models performed poorly across different heats. However, including ambient humidity and poured metal weight as additional attributes greatly enhanced modeling accuracy. The resulting deep learning model produced an R2 value of 0.755 and an RMSE of 0.0169, showing that the modeling approach is effective when applied to complex surface defect predictions in aluminum castings. This approach shows how integrating sophisticated predictive modeling with physical experimentation improves defect knowledge and provides a scalable route to intelligent casting process optimization.

TALENT DEVELOPMENT DIVISION Room: Grand Gallery E Session Chair: <i>Amanda Groves, Lodge Mfg. Co., South Pittsburg, TN</i>	PANEL: From Toxic to Thriving- Boosting Engagement through Positive Workplace Cultures (26-112) <i>Patrick Frazier, ME Global, Tempe, AZ; Derek Brown, SafePath Solutions, Birmingham, AL; Jim Peterson, ADECCO, St. Perryville, MO; Alisa Patel, Aalberts Surface Technologies, Livonia, MI</i>
	You've heard it before...culture has the power to make or break a team. Culture impacts EVERYTHING... from your ability to attract and retain talent to organizational performance to employee morale. During this panel discussion, several industry HR practitioners will discuss their experiences identifying and understanding the impact of toxic workplace attributes and working across their organizations to positively impact their company culture driving employee commitment and engagement.

1:30 – 3 p.m.

<p>TALENT DEVELOPMENT DIVISION</p> <p>Room: Grand Gallery E</p> <p>Session Chair: <i>Amanda Groves,</i> <i>Lodge Mfg. Co., South</i> <i>Pittsburg, TN</i></p>	<p>Talent Development Programs for Production Employees and Front-line Leaders at Lodge Cast Iron (26-079)</p>	<p><i>Mike Noble, Lodge Cast Iron, South Pittsburg, TN</i></p>
<p>Lodge Cast Iron has successfully implemented talent development programs in the operations group focused on building skills and capabilities of front-line leaders and production employees looking to expand their contributions to the organization. Over the past year, 45 employees have participated in development programs that have enabled them to contribute to the company's success in more substantial ways. The programs have been a combination of participative classroom sessions and on-line training and assessments. The initial participants were by invite only, but as word spread of the development courses, many others have asked to join and actively ask when the next session is. The resulting development has enabled more ownership where the value-add work is being performed.</p>		

1:30 – 4:30 p.m.

<p>AFS INSTITUTE</p> <p>Room: Grand Gallery F</p>	<p>Preview: Intro to Industry 4.0 (26-139)</p>	<p><i>David Blondheim, Jr., Mercury Marine,</i> <i>Fond du Lac, WI</i></p>
<p>This course offers a foundational overview with the technologies of Industry 4.0. Learners will have an understanding of the definitions of I4.0 technologies, and how digital transformation is enabling smarter manufacturing.</p>		

1:45 – 2:10 p.m.

<p>SPONSORED PRESENTATION</p> <p>Room: Casting Source Theater</p>	<p>Where Foundry Margins are Won or Lost (26-151)</p>	<p><i>Cole Clayton, B&L Information Systems,</i> <i>Bridgman, MI</i></p>
<p>Foundry margins don't disappear overnight. They erode quietly as real production costs drift away from the quote. Most leaders don't see the damage until month-end, when it's too late to fix. This session takes a clear, shop-level look at where margin is actually won or lost in metalcasting. Attendees will see how high-performing foundries get earlier financial visibility, hold teams accountable at the job level, and protect margin while work is still running.</p>		
		

2:30 – 3:15 p.m.

<p>CASTING DESIGNERS & BUYERS</p> <p>Room: Casting Source Theater</p> <p>Session Chair: <i>Kim Phelan,</i> <i>American Foundry Society, Inc.,</i> <i>Schaumburg, IL</i></p>	<p>From Concept to Casting: The Stress-Free Playbook for Sourcing (26-145)</p>	<p><i>Kory Anderson, Dakota Foundry, Inc., Webster, SD</i></p>
<p>Your step-by-step guide to designing better parts, choosing the right foundry, and simplifying production from start to finish. This session will cover alloys, specifications, defect prevention, and why collaboration with your foundry is essential. Whether you're an engineer, buyer, or project manager, you'll walk away with confidence and clarity, as well as a physical playbook packed with design tips, process insights, and sourcing checklists to take back to your team.</p>		

3:15 – 4:45 p.m.

<p>ADDITIVE MANUFACTURING DIVISION</p> <p>Room: Grand Gallery D</p> <p>Session Chair: <i>Rich Lonardo,</i> <i>Defense & Energy Systems, Poland, OH;</i> <i>Brandon Lamoncha,</i> <i>Humtown Products,</i> <i>Columbiana, OH</i></p>	<p>Printed Sand Equipment Development and New Innovations (26-099)</p>	<p><i>Greg Colvin, Honeywell Aerospace, Phoenix, AZ</i></p>
<p>US casting supply has limited responsiveness for many high integrity systems, especially for sporadic low quantity demand applications. 3D Printed Sand provides an opportunity to augment the casting supply chain by filling gaps in supplier readiness and producing mold sections with greater geometric complexity relative to traditional sand mold production methods. This presentation will discuss current printed sand equipment available to US foundries versus equipment that has recently become available for printing sand cores and mold sections. The presentation will discuss what is required to satisfy Honeywell sand casting requirements relative to the different printed sand equipment casting quality results. The different equipment types offer options in printed sand binder compositions, surface finish of printed sand and variation in ease of sand removal post-casting. In summary, this session will help the casting industry improve their leverage of printed sand technologies to support their casting processes and applications.</p>		
<p>Lessons Learned on the Study of As-Cast Surface Finish of Aluminum Aerospace Castings Made Using the 3D Printed Precision Sand Casting Process (Impact 1) (26-108)</p>		<p><i>Jiten Shab, Product Development & Analysis LLC,</i> <i>Naperville, IL</i></p>
<p>The results from OSD funded and Honeywell led research on complex aerospace aluminum alloy 3D printed sand castings. The research focused on as-cast surface finish and dimensional control of 3D printed molds and cores, with reduction in out-gassing will be presented using the best practice driven data generated with the AFS Test Casting poured at Denison Industries and other castings poured at Ohio Aluminum, Chicago Magnesium, and Carley foundries. This is a two-year research project and results till-date will be presented along with a web enabled tool incorporated into the MMDS (Mold Material Data Search) tool developed by PDA. The knowledge and best practices generated through the research project will be incorporated into future AFS course curriculum and Institute training courses as well as a revised publication of "The 3D Printed Precision Sand Casting Process" pocket book.</p>		
<p>Advanced AM and 3D Printed Sand Mold Technologies to Support Casting Supply (26-109)</p>		<p><i>Greg Colvin, Honeywell Aerospace, Phoenix, AZ</i></p>
<p>US casting supply has limited responsiveness for many high integrity hardware especially for sporadic low quantity demand applications. Additive Manufacturing provides an opportunity to augment the casting supply chain by filling gaps in supplier readiness. This presentation will discuss new advanced AM technologies that can be leveraged by the casting supply chain to improve their responsiveness to new casting orders especially those of low demand high integrity hardware. Technologies discussed will include improvements to 3D printed sand mold production methods for producing sand castings. These will include improving sand mold surface roughness, reducing outgassing from 3D printed sand mold during casting and methods to reduce dimensional variation between repetitive mold builds. AM technologies available to build rapid tooling including machining fixtures and inspection tooling will be discussed. Advanced AM high strength metallic and polymeric systems will be presented that can be leveraged for tooling and other applications. In summary, this session will help the casting industry practitioner review and possibly leverage Additive Manufacturing technologies to support their particular casting processes and applications.</p>		

3:15 – 4:45 p.m.

COPPER DIVISION Room: Grand Gallery B Session Chair: <i>Paul Clements, Sloan Valve Co. Augusta, AR</i>	Change Culture and What it has to do With Defect Analysis (26-118)	<i>Paul Clements, Sloan Valve Co., Augusta, AR</i>
	<p>An introduction to a hybrid approach that combines key components of the DMAIC (Define, Measure, Analyze, Improve, Control) and Total Quality Management (TQM) methodologies to identify and address the root causes of scrap in copper casting operations. Attendees will explore how these complementary approaches can be integrated to systematically diagnose quality issues, implement effective countermeasures, and drive continuous improvement. Additionally, participants will learn how to apply TQM principles, such as customer focus, process optimization, and employee involvement, to create a culture of quality and achieve sustainable results. By the end of the session, attendees will be equipped with the tools and strategies needed to improve process efficiency, reduce scrap, and enhance product quality in their casting operations.</p>	
	PANEL: Copper Casting Defects (26-128)	<i>Jeff Sorenson, MRL Material Resources LLC, Lincoln, AL; Mike Buyarski, The Federal Metal Co., Bedford, OH; Leigh Omer, H Kramer & Co., Chicago, IL</i>
<p>Casting defects remain a major challenge in foundries, leading to costly scrap, rework, and production delays that impact profitability and customer satisfaction. Foundries work to mitigate these issues through process optimization, simulation, and rigorous quality control, yet diagnosing root causes often remains complex. Compounding the problem is a growing skills gap, as much of the practical “know-how” and experiential knowledge is being lost to retirement. This panel brings together experts to address casting defect questions, share insights, and discuss practical strategies for defect prevention and knowledge retention.</p>		

MELTING METHODS & MATERIALS DIVISION Room: Grand Gallery C Session Chair: <i>Mike Mutton, Larpen Metallurgical Service, Ludington, MI</i>	Dumb Luck (26-125)	<i>Patrick Leper, Saveaway USA Corp., North Canton, OH</i>
	<p>Dissecting and analyzing inductor linings after melting campaigns is beneficial whether the campaign is considered a success or failure. Data from the furnace readings such as conductance and reactance can indicate extensive wear or clogging. Furthermore, temperature and wear variations, measured by various devices, can detect less obvious issues. Oftentimes, the chosen solution to unsatisfactory lining campaigns is to change materials or vendors. But a process review, and willingness to alter processes, can be more beneficial to understanding effects on inductor refractory and safely increasing inductor lining life. Time, available labor and technical assistance can make such a “post-mortem” challenging, but the infrequency of inductor relines typically reduces those demands. This presentation will compare the approaches taken in two different applications, holding and pouring, and how practices were revised to achieve improved results.</p>	
	Refractory Selection as an End User (26-126)	<i>Alexandria Doll, AMERICAN Cast Iron Pipe Company, Birmingham, AL</i>
<p>Selecting a refractory material as an end user can seem daunting. It’s not a magic powder but it’s not just dirt either. Due to this, there can become a tendency to rely on suppliers for material selection and ignore the refractory until it causes a major problem. The issue with that method is, the success of a refractory is usually dependent on the total sum of many choices and conditions of which nobody knows better than the end user themselves. This presentation will aim to give end users the basic tools to feel more confident selecting, monitoring, and evaluating refractories so that they can have safer work environments, lower costs, and better efficiency in their process overall.</p>		

MOLDING METHODS & MATERIALS DIVISION Room: Grand Gallery A Session Chair: <i>Scott Giese, University of Northern Iowa, Cedar Falls, IA</i>	Utilizing Automatic Density Control to Reduce the Need for Zircon-Based Coatings (26-032)	<i>Bruce Lundeen, Foseco, Joliet, IL</i>
	<p>For years, zircon based refractory coatings have been the gold standard used for heavy section and medium section ferrous castings. Zircon based refractory coatings are well known for their excellent mold to metal interface protection against casting defects like burn-on/burn-in and penetration defects. One of the other attributes of a zircon-based coating is its ability to be more forgiving when the coating is outside the application specifications and are still able to produce a casting with minimal mold-metal reactions. Foundries have utilized zircon-based coatings as a “crutch” to their molding/coating process. Along with the fact that zircon as a mineral is more costly compared with other refractory materials for foundry uses, an additional downside of zircon-based coatings is the volatility of the zircon sand market. The zircon sand market can be hampered by many factors including demand-supply gaps, high freight cost, tariffs and strict mining policies. More recently, some foundries have experienced concerns relating to Naturally Occurring Radioactive Material (NORM) readings in their waste or recycle streams from either zircon sand or flour used in these applications. As new sources of zircon enter the market this issue can become a greater concern. Coatings suppliers have developed zircon alternatives that have been shown to work equally as well as zircon coatings on various alloys and metal section thicknesses. These alternatives are not as forgiving as the 100% zircon-based coatings and need more control on application specifications. Traditionally, coatings applications have been controlled manually using the Baumé test (which helps measure dilution consistency), density, and/or the flow cup test (which measures viscosity). However, the accuracy of these methods relies on a range of variables, primarily on the operators of reproducing these tests with very little variability. In those incidences the application specification is slightly or dramatically out of range, the zircon alternative coatings will fail. New technology in automatic coating control units, takes those variables out of the hands of the operators. By utilizing the automatic coating control units, and being able to control zircon alternatives application properties more accurately, the potential of reducing or eliminating zircon based coatings can be dramatically increased.</p>	
	PANEL: Coating Application, Advancements and Trends (26-110)	<i>Bruce Lundeen, Foseco, Joliet, IL; Daniel Cygal, HA International, Westmont, IL; Matthew Hall, REFCOTEC, Inc., Orrville, OH; Stacey Clifford, ASK Chemicals, Dublin, OH; Peter LeBlang, Betz Industries, Grand Rapids, MI</i>
<p>This panel will highlight recent trends, advancements, and the application of foundry coatings. The focus will be on the practical needs and aspects of coating testing and application in working foundries, and how these can affect coating performance and casting quality. You are invited to discuss these topics with the panel, as well as potential requirements for alternative coating testing necessary for industrial adoption.</p>		

3:15 – 4:45 p.m.

<p>YOUNG PROFESSIONALS</p> <p>Room: Grand Gallery E</p> <p>Session Chair: Evan Letourneau, MAGMA Foundry Technologies, Schaumburg, IL</p>	<p>PANEL: Building the Talent Pipeline-Onboarding and Retaining Skilled Foundry Talent (26-111)</p> <p><i>Nathaniel Bryant, University of Northern Iowa, Cedar Falls, IA; Brian Lewis, FEF, Schaumburg, IL; Noah Brack, Georgia Southern University, Statesboro, GA; Patrick Frazier, ME Global, Inc., Tempe, AZ; Patrick Kluesner, Metal Technologies Inc. (MTI), Auburn, IN</i></p>
<p>The success of every foundry depends on the strength of its people, from patternmakers and electricians to engineers and future leaders. As experienced workers retire, many new recruits are entering the industry with little foundry experience. It is essential that their onboarding engages new recruits with meaningful work and targeted education, to allow them to quickly build on the work of their predecessors. This interactive panel will bring together voices from across the metalcasting workforce pipeline, including educators, HR leaders, technical experts, recent graduates, and The Foundry Education Foundation, to explore how foundries can bridge the gap between talent supply and industry demand.</p> <p>Panelists will share insights on:</p> <ul style="list-style-type: none"> • Talent Development & Retention: How the Foundry Educational Foundation and HR leaders ensure that new talent not only enters the industry but also thrives • Student & Early Career Perspectives: What young professionals are looking for when they enter the workforce—and the support they need to succeed. • Building Technical Teams: Practical strategies for developing technical expertise within foundries, from onboarding to sequencing knowledge growth across trades and engineering roles. • Academic Perspectives: What professors are teaching today's students, how curricula align with industry needs, and where the gaps remain. <p>Together, we'll examine today's workforce challenges, the role of education partnerships, and how foundries can successfully onboard and retain the next generation of talent.</p> <p><i>Thank you to our Young Professionals Sponsors:</i></p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">     </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">   </div>	

3:30 – 4:15 p.m.

<p>CASTING DESIGNERS & BUYERS</p> <p>Room: Casting Source Theater</p> <p>Session Chair: Kim Phelan, American Foundry Society, Inc., Schaumburg, IL</p>	<p>Countdown to Meltdown: Mastering 5 Major Casting Processes (26-146)</p> <p><i>Laura Bartlett, Missouri University of Science and Technology, Rolla, MO</i></p>
<p>Time to demystify the details and distinctions of seven metal casting processes: green sand, air-set/nobake, permanent mold, investment casting, and lost foam. Buyers: You'll be prepared to converse with foundries about which process best suits your casting program. Designers: You'll increase your knowledge of (1) designing for manufacturability, (2) the correlation between process and casting tolerance, and (3) achieving the desired properties for your casting, including weight, size, and surface finish.</p>	

4:30 p.m.

<p>EVENT</p> <p>Room: Hall B-C</p>	<p>Exhibit Floor Reception</p> <p>Attendees are encouraged to mingle on the exhibit floor with exhibitors. Enjoy appetizers and refreshments.</p>
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5 – 6 p.m.

<p>EVENT</p> <p>Room: River Overlook Pre-Function</p>	<p>AFS Young Professionals Networking Reception</p> <p>You're Invited! Join the AFS Young Professionals and fellow industry professionals for a high-energy networking reception in the River Overlook Pre-Function area at the DeVos Conference Center. Build your personal and professional network while you "light up" the evening sampling local Grand Rapids beer. We can't wait to see you there!</p> <p><i>Thank you to our Young Professionals Sponsors:</i></p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">     </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">   </div>
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6 – 9 p.m.

<p>EVENT</p> <p>Room: Grand Rapids Public Museum</p>	<p>Alumni Dinner (AFS Alumni only. Ticket Required)</p> <p>Join this time-honored Alumni tradition! We'll begin with an Alumni presentation to welcome AFS's newest Alumni members and celebrate the Alumni who came before—then explore the Grand Rapids Public Museum's special exhibits and permanent installations, with a fine meal and cocktails shared with fellow AFS Alumni. <i>Must be a member of AFS Alumni to attend. Registration necessary. Please note: Transportation is not provided for this event.</i></p>
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Thursday, April 16, 2026

7 – 8 a.m.

Room: Galley Overlook GH	Author/Chair Breakfast
This breakfast is for AFS speakers, session chairs, students and staff to meet and coordinate details for the day's educational sessions.	

7 – 8 a.m.

Room: Steelcase Ballroom D	Copper Breakfast
The Copper Division will present their annual awards during the breakfast. The breakfast is open to everyone with an interest in copper alloys.	

7:30 – 10:30 a.m.

Room: Grand Gallery	Coffee Station by AFS Technical Sessions
<p><i>Sponsored By:</i></p>   	

8 a.m. – Noon

Room: Grand Gallery	Registration Open
<p><i>Attendee Bags Sponsored By:</i>  <i>Lanyards Sponsored By:</i> </p>	

9 a.m. – Noon

Room: Grand Gallery	Exhibit Hall Open
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8 – 9 a.m.

ADDITIVE MANUFACTURING DIVISION Room: Grand Gallery D Session Chair: Nathaniel Bryant , <i>University of Northern Iowa, Cedar Falls, IA; Jerry Thiel</i> , <i>Precision Casting Technologies LLC, Dysart, IA</i>	Efficient Categorization of Binder Jetting Printer Settings Using ANN Sensitivity Evaluation (26-043)	<i>Jonathan Kabasele, University of Johannesburg, South Africa; Kasongo Nyembwe, Cape Peninsula University of Technology, South Africa</i>
	<p>This study employs Artificial Neural Network (ANN) sensitivity analysis to rank the impact of key binder jetting parameters, namely AFS grain fineness, printhead speed, drop mass, and print resolution (DX), on the strength of 3D-printed sand moulds. Results indicate that AFS grain fineness accounts for more than 70% of the influence on mould strength, with the remaining parameters contributing 30%. Leveraging these findings, an efficient categorization was developed. By ranking parameters through cumulative scoring, this classification highlights the relative importance of each variable. The resulting classification offers foundries a strategic tool to optimise binder jetting processes, adaptable to different machines and parameters. This approach advances innovation in the foundry industry, aligns with Fourth Industrial Revolution (4IR) technologies, and supports the United Nations Sustainable Development Goal 9, promoting industry, innovation, and infrastructure development.</p>	
	Quantitative Assessment of Printhead Test Patterns in Binder Jet Additive Manufacturing (26-056)	<i>Jacob O'Dell, Nathaniel Bryant, & Joshua O'Dell, University of Northern Iowa, Cedar Falls, IA</i>
<p>In binder jet additive manufacturing, printhead test patterns are routinely generated to assess equipment health. Traditionally, operators evaluate these patterns qualitatively, relying on personal judgment to determine whether to proceed with printing or perform maintenance. Improper evaluations can lead to unnecessary maintenance or prints with a high risk of failure and scrap. To address this, the University of Northern Iowa has developed a preliminary software package that objectively analyzes printhead test patterns and assigns a quantitative health score. This score enables longitudinal tracking and analysis of printhead performance, providing actionable thresholds to support consistent and reliable printing operations.</p>		

CAST IRON DIVISION Room: Grand Gallery C Session Chair: Dr. Kathy Hayrynen , <i>Aalberts Surface Technologies, Livonia, MI; Brandon Reneau</i> , <i>Caterpillar, Inc., Dunfermline, IL</i>	Evaluation of the Tensile Strength of Structurally Welded Gray and Ductile Iron Castings (26-017)	<i>Trevor Beach, Betz Industries, Grand Rapids, MI</i>
	<p>The paper discusses the weld method and test results for welding different grades of gray and ductile iron with a variety of welding rods.</p>	

8–9 a.m.

COPPER DIVISION Room: Grand Gallery B Session Chair: <i>Andy Shea, AY McDonald Mfg. Co., Dubuque, IA</i>	PANEL: Capital Equipment Projects (26-129) <i>Andy Bain, The Ford Meter Box Co. Inc., Wabash, IN; Andy Shea, AY McDonald Mfg. Co., Dubuque, IA; Phil Armstrong, Kodiak Group, Kendallville, IN; Charles Coon, Mueller Water Products, Decatur, IL</i>
	Capital equipment projects in foundries require careful planning and decision-making, as selecting the right equipment directly affects productivity, quality, and long-term ROI. Choosing qualified consultants or project managers is critical to ensure proper layout design, integration with existing systems, and smooth project execution. Maintenance strategies must be defined early to balance uptime, reliability, and total cost of ownership. Foundries face tough trade-offs during the conception, design, and execution phase that must be handled well to maximize gains and minimize cost. This panel will explore considerations needed to execute capital projects well and avoid project risks that can lead to costly overruns and missed production targets.

ENGINEERING & SMART MANUFACTURING DIVISION Room: Grand Gallery A Session Chair: <i>Jim Wenson, Sinto America, Grand Ledge, MI</i>	Unlocking the Future: How Data and AI Redefine Foundry Success (26-098) <i>Susan Bear, Grede Castings, Southfield, MI; Derek Yesmunt, Norican Group, LaGrange, GA</i>
	The future of metalcasting belongs to foundries that harness data and act on it in real time. With actual success stories, this paper will reveal how IIoT systems enhanced with AI are transforming foundries—driving productivity, cutting scrap and building resilience. Highlighting: <ul style="list-style-type: none"> • A single, trusted platform that captures and applies decades of process knowledge • AI-driven optimization reduces scrap by up to 50% while improving casting quality • Smart automation empowers new hires and offsets the loss of experienced workers • Data-driven insights cut energy costs and improve sustainability. Insights from IIoT and AI deployments in 30+ countries, including Grede (US), and Condals (Spain). It will analyze the actions behind successes like a 50% drop in defects at one Grede green sand foundry, over 50% AI-driven scrap reductions for high-compliance patterns at Condals green sand foundry, and a 52% scrap reduction at a HPDC facility.
	Comprehensive Operational Improvement through Cross-functional Collaboration and Cadence of Accountability (26-078) <i>Mike Noble, Lodge Cast Iron, South Pittsburg, TN</i>
The Lodge Manufacturing Team has realized comprehensive operational improvement through the use of a daily accountability meeting with a cross functional group of team members including typical operations, maintenance, and engineering staff in addition to HR and Finance representatives. As a result of their comprehensive work, they have achieved year-on-year improvement of \$7,000,000 via increased throughput, reduced waste, and lower overtime costs. The impressive performance has enabled Lodge to weather the tariff-storm and deliver solid financial results, paying profits back to employees and family shareholders.	

TALENT DEVELOPMENT DIVISION Room: Grand Gallery E Session Chair: <i>Patrick Frazier, ME Global, Inc., Tempe, AZ</i>	Hire for Fit. Train for Skill. Retain for Life: A Strategic Approach to Talent Acquisition and Retention (26-023) <i>Bill Padnos, Non-Ferrous Founders' Society, Battle Creek, MI</i>
	U.S. manufacturing is facing a talent shortage, with over 2.1 million jobs projected to go unfilled by 2030, including more than 380,000 in metal casting. In this environment, the traditional “post and hope” recruitment method is no longer a viable option for long-term success. Foundries must shift to a demand-driven approach to workforce development that prioritizes hiring for fit and training for skill. This paper outlines a strategic workforce solution model designed to help foundries build engaged, purpose-driven teams that will then reduce costly turnover. The model focuses on aligning recruitment practices with organizational goals, fostering employee development, and cultivating a culture of accountability and growth. By investing in both people and processes, foundries can create a resilient talent pipeline that not only fills roles, but also drives innovation, boosts productivity, and positions them for sustained success in this competitive and evolving industry landscape.

8–10 a.m.

AFS INSTITUTE Room: Grand Gallery F	Introduction to Casting Alloys (26-140) <i>Patrick Kluesner, Metal Technologies Inc. (MTI), Auburn, IN</i>
	This course will provide the learner with a comparison of the commonly cast ferrous and nonferrous alloys. There will be discussions of applications, properties, and criteria for selection of the following alloys: iron, steel, copper, aluminum, and magnesium.

9:15 – 9:40 a.m.

SPONSORED PRESENTATION Room: Casting Source Theater	Global Experience with Highly Technical Feeders (26-152) <i>Tom Iven, Chemex Foundry Solutions GmbH, an HA Group company, Düsseldorf, Germany</i>
	Advanced feeding technologies are enabling foundries to achieve greater casting section soundness, reduced shrinkage, and longer feeding distances than traditional exothermic or insulating risers allow. This session features a case study where Tele-Feeder Systems, combined with additional technologies, were used to extend feeding distance to areas not previously accessible. Tom Iven will share global best practices with different simulation technologies to engineer a beneficial feeding system to lower the overall cost to our customer producing a casting. <div style="text-align: center;">  </div>

9:15 – 10:15 a.m.

ADDITIVE MANUFACTURING DIVISION Room: Grand Gallery D Session Chair: <i>Nathaniel Bryant, University of Northern Iowa, Cedar Falls, IA</i>	Assessment and Challenges of Metal-Polymer Additively Manufactured Heat Exchangers (26-042) <i>Franklin Onyeka Ochonogor, Vaal University of Technology, South Africa</i>
	<p>This study aims to develop metal-polymer composite parts with optimized fiber reinforcement for a hybrid system, focusing on recycled polymer/fiber combinations for sustainable manufacturing practices. Additive manufacturing has revolutionized heat exchanger design, enabling intricate geometries that enhance heat transfer efficiency by up to 50% compared to traditional designs. Metal-polymer additively manufactured heat exchangers offer lightweight and corrosion-resistant solutions, combining a polymer matrix with metal inserts for thermal conductivity. Challenges include manufacturing complexity, anisotropic properties, surface roughness, porosity, and the need for process parameter optimization. By incorporating metallic reinforcement into polymer composites through additive manufacturing, limitations in strength, thermal conductivity, stiffness, and wear resistance can be addressed. The research findings will contribute to advancements in the automotive and aerospace industries by providing insights into the development of high-performance composite materials.</p>

COPPER DIVISION Room: Grand Gallery B Session Chair: <i>Jacob Johnson, Foseco, Brook Park, OH</i>	Surface Alloying and Surface Compositing of Copper Alloy Castings using Mold and Core Coatings (26-026) <i>Kaustubh Rane, Mebran Zare, Flavio Toma, Swaroop Behera, Benjamin Church, & Pradeep Robatgi, University of Wisconsin, Milwaukee, WI</i>
	<p>This study presents a technique for simultaneous surface alloying and surface compositing (SASC) of C89836 brass castings. Core surfaces were coated with a slurry of Cu, Ni, and Ni-coated graphite powders before casting. During solidification, Ni and Cu dissolved into the melt and enriched the surface, while graphite particles were embedded in the matrix, forming a composite layer. Microstructural characterization by optical microscopy, SEM, and XRD confirmed uniform Ni enrichment and graphite incorporation. Electrochemical and ICP-MS tests showed SASC castings had reduced corrosion rates and lower lead leaching, while machinability improved through the formation of short, granular chips instead of long, spiral chips. Compared with both the base alloy and Ni/Cu surface alloyed castings, SASC provided simultaneous improvements in corrosion resistance, lead leaching mitigation, and machinability. These findings demonstrate the potential of SASC technique for producing safer, high-performance brass components.</p>
	Induction-Assisted Feeding Systems: Unlocking Energy, Yield, and Sustainability Gains in Modern Foundries (26-061) <i>Diego Martinez, Sanat Maiti, & Rabele Nikonam, Foseco, Netherlands; Johan Ekengard & Frank Bjerkelund, Effee Foundry AS, Norway</i>
<p>A significant leap in foundry efficiency can be achieved by rethinking how risers (feeders) are heated and controlled. This paper presents an induction-assisted feeding system that precisely manages riser solidification time, enabling drastic reductions in excess metal while maintaining optimal feeding performance. The result is improved energy efficiency, metal yield, sustainability, and cost competitiveness. Applied in sand-molded, gravity-poured non-ferrous foundries, the technology has delivered tangible results, including lower energy use, higher yield, shorter cycles, greater capacity, reduced emissions, and improved casting quality. By reducing riser size and optimizing thermal profiles, it also decreases fettling and machining, minimizes waste, and improves delivery times. European foundries have confirmed the robustness and scalability of the approach, with adaptation to ferrous alloys underway. Combining a high-efficiency, low-frequency induction system with a purpose-designed high-technology sleeve creates a controlled thermal environment for leaner, more sustainable, and more profitable operations.</p>	

MARKETING DIVISION Room: Grand Gallery E Session Chair: <i>Cara Lynch, Inductotherm Corp., Rancocas, NJ</i>	Small Team, Big Impact: Lean Marketing Strategies for Your Company (26-147) <i>Alexandria Trusov, Alpha Resources LLC, Stevensville, MI</i>
	<p>This presentation shows how foundries and melt shops can elevate their visibility even when Marketing duties are handled by HR, Sales, Customer Service, or other small teams. It highlights practical, easy-to-execute approaches to brand building, smart budgeting, social media, AI-assisted content creation, and basic analytics. Attendees will learn how choosing a clear long-term theme allows even minimal budgets to support multi-year campaigns—such as producing one strong ad per year—while maintaining consistency. By applying lean marketing principles and tracking simple, meaningful metrics, cross-functional teams can stretch time and budget while building a stronger, more memorable market presence.</p>

METALCASTING RESEARCH Room: Grand Gallery C Session Chair: <i>Adam Kopper, Brunswick Corp., Fond du Lac, WI</i>	Project Report: Printed Wax Pattern Molds (26-072) <i>Tom Mueller, Mueller AMS, Brookfield, WI</i>
	<p>In 2024, the AFS sponsored a research project to demonstrate the viability of 3D printed wax pattern molds. Prices and lead times for wax pattern molds have increased recently as reshoring of metal casting has increased. Given that the pressures and temperatures involved in molding wax are low compared to injection molded plastic, it seemed likely that 3D printed molds could withstand pressures and temperatures required for molding. Although thermal conductivity of printed plastics was much lower than for Aluminum, the more common mold material, the difference might be narrowed through the use of conformal cooling channels possible with 3D printing. Although the tools would not be as durable as aluminum tools, if they could survive 300-500 injections, they would be viable for approximately 40% of investment casting orders and could also be used as bridge tools for higher volume orders. This paper reports on the results of the project.</p>
	Optimizing Conformal Cooling Design for 3D-Printed Wax Molding Die Through Simulation-Driven Methods (26-073) <i>Milan Raval, Altair Engineering, Troy, MI</i>
<p>Wax molding is the foundation of investment casting, producing the wax pattern that defines the accuracy, surface finish, and complexity of the final part. Conformal cooling enhances this process by improving efficiency, consistency, and overall quality. One of the challenges of using printed wax mold in this type of manufacturing is that thermal conductivity is much lower than the aluminum die which increases the overall cycle time for wax pattern creation. And consequently, increases the cost of the pattern. Conformal cooling channels design facilitates more uniform and efficient heat removal during wax injection, resulting in expedited cycle times, improved surface quality, and increased energy efficiency. This research paper delves into various methods for designing, simulating, and optimizing conventional cooling channels to transform them into more effective conformal cooling channels for 3-D printed thermoplastic die to minimize costs and overall cycle times within the wax molding process of investment casting.</p>	

Schedule is subject to change.

Schedule is subject to change.

9:15 – 10:15 a.m.

<p>ENGINEERING & SMART MANUFACTURING DIVISION AND STEEL DIVISION</p> <p>Room: Grand Gallery A</p> <p>Session Chair: <i>Koushik Balasubramanian, Cleveland Cliffs, Inc., Miamisburg, OH</i></p>	<p>SILVER ANNIVERSARY LECTURE: Technological Landscape of the Metalcasting Industry for the Next 30 Years (26-049)</p> <p><i>Jiten Shah, Product Development & Analysis LLC, Naperville, IL</i></p> <p>Computer Integrated Manufacturing to Steel Casting Industry was published and presented in 1992 when I was working in a large steel foundry. Since 1993, the author has been keeping up with the technological advancements through active participation in the research in the areas of Industry 4.0, AI/ML, Common Data Modeling, AM for metal casting, Advance Process Simulation, Digital Manufacturing and Digital Transformation, online tools for design engineers; are some of the topics with published technical papers. The silver anniversary technical paper will walk through the recent advancements in some of these areas and author will provide his perspective on some of the technologies playing a dominant role in metal casting industry for the next 30 years.</p>	
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10 – 10:30 a.m.

<p>CASTING DESIGNERS & BUYERS</p> <p>Room: Casting Source Theater</p> <p>Session Chair: <i>Kim Phelan, American Foundry Society, Inc., Schaumburg, IL</i></p>	<p>Casting of the Year (26-148)</p> <p><i>Jason Bradley & Matt Sutterfield, Mueller Co., Chattanooga, TN</i></p> <p>The Mueller Water Works design team walks you through the incredible journey they made to achieve their 2025 Casting of Year project.</p>	
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10:30 – 11 a.m.

<p>CASTING DESIGNERS & BUYERS</p> <p>Room: Casting Source Theater</p> <p>Session Chair: <i>Kim Phelan, American Foundry Society, Inc., Schaumburg, IL</i></p>	<p>Update on AFS's Aluminum Casting Performance Initiative (ACPI) Research Project Focused on Developing Properties with Design Allowable (26-048)</p> <p><i>Jiten Shah, Product Development & Analysis LLC, Naperville, IL</i></p> <p>In DoD end use, alloys not in Metallic Materials Properties Development and Standardization (MMPDS) handbook are utilized much less due to knockdown factors applied, which further leads to non-optimization in design and sourcing. This DLA/AMC funded project focuses on developing properties with design allowables for C355-T6 Sand Cast Aluminum and incorporating into MMPDS and the Casting Alloy Database Search (CADS) too with pedigree information, including chemistry, section thickness and other process & design characteristics for DoD end users to utilize castings in the C355-T6 alloy with no knock-down factor. Project progress till-date will be presented, and the project involves AFS member aluminum foundries participation to produce test castings and share separately cast test bar properties historical data to derive best practice driven design allowable.</p>	
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Acme Manufacturing	607	EKK Inc.	237
Across International LLC	313	Elektrim Motors	819
Advanced Tooling Inc.	348	Elkem *	728
Affival, an Opta Group Company *	846	Empire Systems Inc.	848
Ajax TOCCO Magnethermic Corp - Pillar Induction *	810	EMSCO Inc. *	414
Albarrie Environmental Services Ltd. *	516	Engis Corporation *	418
Allied Mineral Products *	406	Equipment Manufacturers Intl. Inc. (EMI) *	700
Alpha Resources *	230	Eriez	611
American Colloid Company *	319	Ervin Industries Inc.	234
American Foundry Society (AFS) *	423	ESCA Blast Great Lakes	551
American Metalcasting Consortium	238	ETA Engineering Inc. *	350
Anderson Global LLC *	329	Everett Industries LLC *	613
Asenjo Montenegro Vigo Soluciones SL *	619	Exact Metrology, a division of In-Place Machining Company	213
ASK Chemicals *	801	EZG Manufacturing	835
Associated MetalCast *	834		
ATD Engineering & Machine *	518		
AUMUND Corporation	845		
Automatic Foundry Solutions	225		
AW Bell Machinery *	610		
B		F	
B&L Information Systems *	322	Factur	250
Badger Mining Corporation *	206	FATA Aluminum LLC *	710
Bespro Pattern Inc. *	345	FEF	725
Blasch Precision Ceramics	236	Fill USA Inc. *	506
Blast Cleaning Technologies *	807	Filter Industries Inc. *	241
Bronco Blast Equipment *	823	Finite Solutions Inc. *	200
		Flexovit USA Inc. *	413
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C		G	
Caddis Systems *	246	GEMCO Cast Metal Technology *	324
Capital Refractories Inc. *	809	General Kinematics *	216
CARBO *	312	GIFA & NEWCAST 2027 / Messe Duesseldorf North America	825
Carpenter Brothers Inc. *	346	Godfrey & Wing LLC	749
Carrier Vibrating Equipment *	514	Goff Inc.	718
Champion Chisel Works	308	Gradient Lens Corporation	549
Chemex *	208	Gradmatic Equipment Inc.	408
Chesapeake Specialty Products Inc. *	550	Green Diamond Performance Materials *	344
Chicago Protective Apparel *	623	GreenSand Controls Inc. *	647
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CPFD Software *	515		
D		H	
Dalca Robotics *	229	HA Group *	201
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		Hill & Griffith Co. *	701
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MPM Infosoft Pvt. Ltd. *	444	Smart Sand Industrial Product Solutions *	850
		Southeastern Foundry Products & Foundry Coatings Inc. *	307
		SPECTRO Analytical Instruments *	328
		Steel Grip Inc.	448
		Summit Foundry Systems Inc. *	407
		Supreme Cores *	311
		Suzhou Weijing Automation Co. Ltd.	827
		Symeo (T'imkantech)	547
		Synchro ERP Limited *	306
		SYSCON Sensors *	800
N			
NDT Group Inc. *	449		
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New London Engineering *	349		
Non-Ferrous Founders' Society	837		
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U

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Urja Products Pvt. Ltd.	751
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V

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Versatile Equipment Pvt. Ltd.	244
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Viking Blast Systems *	228
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VJ Technologies Inc. *	618
voxeljet America Inc. *	210

W

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Waltz Holst	744
Whiting Equipment Canada *	415
Wingfield Scale *	645
Winoa USA *	347

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Allied Mineral Products *	406
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Keysight	447
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Nowak Machined Products	339
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Alloys/Materials - Copper-Base

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Alloys/Materials - Iron

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Induction Iron Inc. *	608
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Mintura LLC	746
Nowak Machined Products	339
NowPurchase (Biz Hero India Pvt. Ltd.)	546
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Synchro ERP Limited *	306
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USMFG Inc. *	816

Alloys/Materials – Magnesium

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Alloys/Materials - Superalloys

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Alloys/Materials – Titanium

Miller and Company *	808
PADNOS *	314

Alloys/Materials – Zinc

EGA Spectro Alloys	446
Transmet Corp.	747

Engineering/Capital Equipment - Casting Design

GIFA & NEWCAST 2027 / Messe Duesseldorf North America	825
Magaldi Technologies *	731
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Engineering/Capital Equipment - Cleaning, Finishing, & Shipping

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Goff Inc.	718
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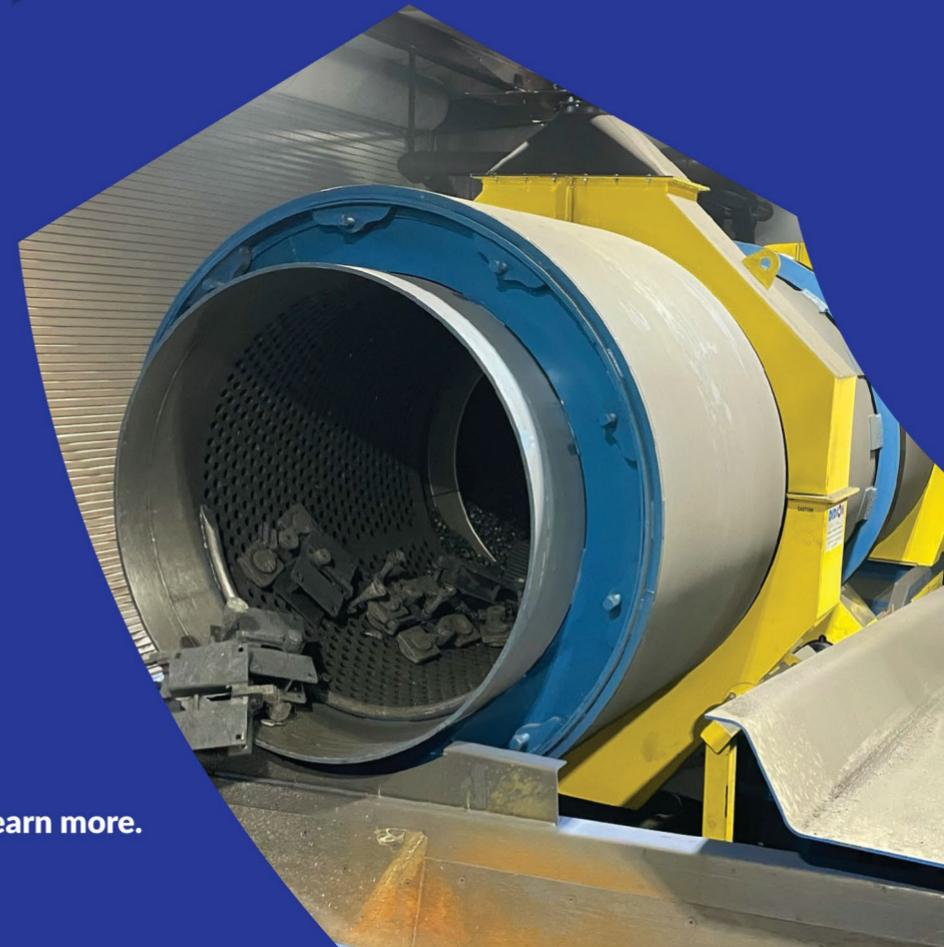
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Anderson Global LLC*	329
Bespro Pattern Inc.*	345
FATA Aluminum LLC*	710
Griffin Tool Inc.	814
JOEST Inc.*	600
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Engineering/Capital Equipment - Permanent Mold Equipment & Accessories

FATA Aluminum LLC*	710
General Kinematics*	216
Pyrotek Inc.*	445

Engineering/Capital Equipment - Robotics & Automation

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FATA Aluminum LLC*	710
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Melting/Melting Quality - Ferrous Melt Quality

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Filter Industries Inc.*	241
Foundry Solutions and Metallurgical Services Inc.*	723
Heraeus Electro-Nite*	412
Hitachi High-Tech America Inc.	716
NovaCast Solutions USA Inc.*	512
SYSCON Sensors*	800
Thermo Fisher Scientific	318

Melting/Melting Quality - Ferrous Melting

ABP Induction*	706
Affval, an Opta Group Company*	846
Ajax TOCCO Magnethermic Corp - Pillar Induction*	810
HWI, A member of Calderys*	501
I2r POWER*	245
Induction Technology Corporation*	310
Inductotherm Corp.*	401
Kodiak Group*	419
Kuttner / Savelli*	748
NowPurchase (Biz Hero India Pvt. Ltd.)	546
Otto Junker USA Inc.*	222
Saint Gobain*	813
TEMC Metal and Chemical Corp.*	209
Texan Minerals and Chemicals LLC*	219
Universal Welding & Engineering Inc.*	451
Viking Technologies Inc.*	315
Whiting Equipment Canada*	415

Melting/Melting Quality - Ferrous Pouring

ABP Induction*	706
Ajax TOCCO Magnethermic Corp - Pillar Induction*	810
Heraeus Electro-Nite*	412
HWI, A member of Calderys*	501
Mono Ceramics Inc.	824
Otto Junker USA Inc.*	222
SIR Robotics Inc.*	207
Texan Minerals and Chemicals LLC*	219
Viking Technologies Inc.*	315
Whiting Equipment Canada*	415

Melting/Melting Quality - Nonferrous Melt Quality

ABP Induction*	706
Blasch Precision Ceramics	236
Filter Industries Inc.*	241
Foundry Solutions and Metallurgical Services Inc.*	723
Heraeus Electro-Nite*	412
Hitachi High-Tech America Inc.	716
Pyrotek Inc.*	445
SYSCON Sensors*	800
TEMC Metal and Chemical Corp.*	209
Thermtronix Corporation	411

Melting/Melting Quality - Nonferrous Melting

ABP Induction*	706
Ajax TOCCO Magnethermic Corp - Pillar Induction*	810
Asenjo Montenegro Vigo Soluciones SL*	619
Blasch Precision Ceramics	236
GIFA & NEWCAST 2027 / Messe Duesseldorf North America	825
HWI, A member of Calderys*	501
I2r POWER*	245
Induction Technology Corporation*	310
Inductotherm Corp.*	401

LPM North America Inc.*	712
Otto Junker USA Inc.*	222
Pyrotek Inc.*	445
Refractory & Insulation Supply Inc.*	409
Saint Gobain*	813
SIR Robotics Inc.*	207
The Schaefer Group Inc.*	247
Urja Products Pvt. Ltd.	751
Whiting Equipment Canada*	415

Melting/Melting Quality - Nonferrous Pouring

ABP Induction*	706
Ajax TOCCO Magnethermic Corp - Pillar Induction*	810
AW Bell Machinery*	610
Blasch Precision Ceramics	236
Heraeus Electro-Nite*	412
HWI, A member of Calderys*	501
Mono Ceramics Inc.	824
Otto Junker USA Inc.*	222
Pyrotek Inc.*	445
Urja Products Pvt. Ltd.	751

Molding Processes - Centrifugal

Across International LLC	313
Flow Science*	517
Quad City Safety Inc.*	212

Molding Processes - Chemically-Bound Sand

ASK Chemicals*	801
J.B. DeVenne Inc.	240
Novis Works LLC*	330
Quad City Safety Inc.*	212
Refractory & Insulation Supply Inc.*	409
Southeastern Foundry Products & Foundry Coatings Inc.*	307
TEMC Metal and Chemical Corp.*	209

Molding Processes - Continuous

IVI Inc.*	217
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Molding Processes - Diecasting

Flow Science*	517
GEMCO Cast Metal Technology*	324
GIFA & NEWCAST 2027 / Messe Duesseldorf North America	825
LPM North America Inc.*	712

Molding Processes - Green Sand

American Colloid Company*	319
Carpenter Brothers Inc.*	346
Eirich Machines*	840
Equipment Manufacturers Intl. Inc. (EMI)*	700
FEF	725
GEMCO Cast Metal Technology*	324
HWI, A member of Calderys*	501

Joymark *	719
Kodiak Group *	419
MPM Infosoft Pvt. Ltd. *	444
QF Engineering *	229
Quad City Safety Inc. *	212
Sinto America *	507
Southeastern Foundry Products & Foundry Coatings Inc. *	307
Summit Foundry Systems Inc. *	407
TEMC Metal and Chemical Corp. *	209
Universal Welding & Engineering Inc. *	451
Viking Technologies Inc. *	315

Molding Processes – Investment

ASK Chemicals *	801
AW Bell Machinery *	610
Flow Science *	517
New London Engineering *	349
Renaissance Services *	544
Southeastern Foundry Products & Foundry Coatings Inc. *	307
TriMech	239

Molding Processes - Lost Foam

Quad City Safety Inc. *	212
Southeastern Foundry Products & Foundry Coatings Inc. *	307

Molding Processes - Permanent Mold

ASK Chemicals *	801
ATD Engineering & Machine *	518
FATA Aluminum LLC *	710
LPM North America Inc. *	712

Molding Processes -**Vacuum Processes (Sand or Metal Mold)**

Quad City Safety Inc. *	212
Renaissance Services *	544
Sintex Minerals *	722
Sinto America *	507

Sand Mold/Core Making - Additive Manufacturing

Chesapeake Specialty Products Inc. *	550
Covia *	601
HA Group *	201
Humtown Products *	428
LightSpeed Concepts *	223
Matthews Additive Technologies *	629
MPM Infosoft Pvt. Ltd. *	444
NowPurchase (Biz Hero India Pvt. Ltd.)	546
Rev1 Technologies	251
The Nugent Sand Company Inc. *	231
voxeljet America Inc. *	210

Sand Mold/Core Making - Core Machines

ATD Engineering & Machine *	518
Equipment Manufacturers Intl. Inc. (EMI) *	700
LAEMPE REICH *	500

Loramendi	644
QF Engineering *	229
SiiF USA	700

Sand Mold/Core Making – Coremaking

CARBO *	312
Carpenter Brothers Inc. *	346
CPFD Software *	515
HA Group *	201
Humtown Products *	428
LAEMPE REICH *	500
Matthews Additive Technologies *	629
Novis Works LLC *	330
Shells Inc.	235
Southeastern Foundry Products & Foundry Coatings Inc. *	307
Supreme Cores *	311
The Nugent Sand Company Inc. *	231

Sand Mold/Core Making - Rapid Prototyping

Humtown Products *	428
Matthews Additive Technologies *	629
Van's Pattern Corporation	416

Sand Mold/Core Making - Sand Molding Equipment

Chemex *	208
FATA Aluminum LLC *	710
GIFA & NEWCAST 2027 / Messe Duesseldorf North America	825
IVI Inc. *	217
Kuttner / Savelli *	748
LPM North America Inc. *	712
Synchro ERP Limited *	306

Sand Mold/Core Making - Sand Preparation & Testing

American Colloid Company *	319
ASK Chemicals *	801
Badger Mining Corporation *	206
DustMASTER Enviro Systems *	609
Eirich Machines *	840
GEMCO Cast Metal Technology *	324
Green Diamond Performance Materials *	344
JOEST Inc. *	600
Kuttner / Savelli *	748
Sintex Minerals *	722
Smart Sand Industrial Product Solutions *	850
The Nugent Sand Company Inc. *	231
Versatile Equipment Pvt. Ltd.	244



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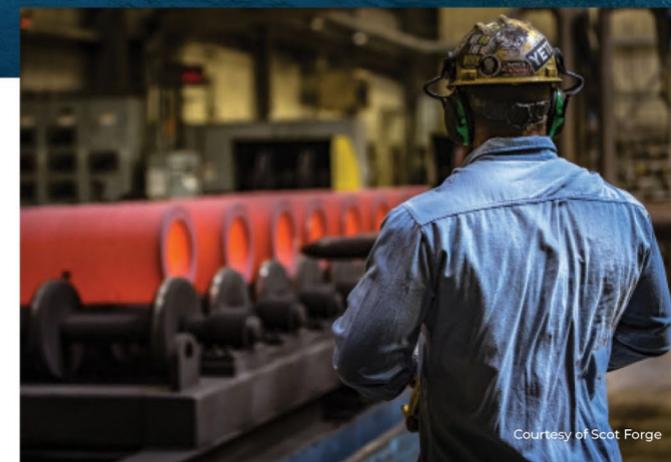


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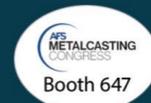
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K

Keysight **447**
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www.keysight.com/us/en/home.html

Advanced Software and Engineering Services for Virtual Prototyping Redefine Product Testing with Predictive, Real-Time, Immersive Simulations, and Hybrid AI With ESI's virtual prototyping tools and personalized engineering services, you test and certify new designs fully virtual – emission-friendly, with reduced testing mileage and at the lowest processes, tooling & material cost. Explore how we empower you to make the right decisions, earlier through collaboration.

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KING Tester Corporation is the industry leader in portable Brinell hardness testers, patented test blocks and microscopes. Our global customers include the largest names in aerospace, rail, auto, foundries, steel and aluminum mills, oil and gas, heat treaters, wear parts, military, infrastructure, construction and utilities. As the OEM, KING Tester manufactures Brinell hardness testing instruments that meet the performance, verification and calibrations requirements of ASTM E10. Calibrations and service performed by KINGare under ISO 17025 A2LA accreditation. Made in the USA.

Kodiak Group * **419**
5799 W M72 Hwy.
Grayling, MI 49738
www.kodiakgroup.us
(989) 344-2166

Kodiak Group is an industrial process engineering firm with a strong presence and history in the foundry industry. We are primarily involved in heavy industry sectors, having a large base of return customers for whom many projects have been completed. The company's capabilities include conceptual and final design of complete facilities, modernizations, specialized process equipment integration, material conveying systems, automation, dust collection and fabrication services through a network of shops. We provide mechanical, structural, civil and other technical engineering services.

KUNKEL-WAGNER Germany GmbH **227**
Hannoversche Str 59
Alfeld 31061
Germany
www.kuenkel-wagner.com/en
(49) 518-1780

Kuttner / Savelli * **748**
211 N Franklin Street
Port Washington, WI 53074
www.kuttner.com
(262) 284-4483

L

LAEMPE REICH * **500**
4850 Commerce Dr.
Trussville, AL 35173
www.laempereich.com
(205) 655-2121

LAEMPE REICH, the North American partner for LAEMPE Mössner Sinto, leads the core production industry with advanced technology and cost-effective solutions. LAEMPE invented the CoreCenter™, an all-in-one system integrating the shooter, mixer, and gas generator with a touchscreen control. With over 6,500 machines globally, LAEMPE REICH offers full support from its Alabama facility, including testing, training, and a 24/7 parts hotline. Backed by millions in spare parts, LAEMPE REICH ensures superior service and long-term value for North American foundries.

LECO Corporation * **606**
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www.leco.com
(269) 985-5496

Since the introduction of the first rapid carbon determinator over 85 years ago, industries worldwide have trusted LECO to deliver technologically advanced products and solutions for elemental and materials analysis. LECO's products for elemental analysis include determinators for carbon, sulfur, hydrogen, nitrogen, and oxygen, as well as glow discharge spectrometers for bulk and/or quantitative depth profile analysis. LECO's metallographic product line features a variety of sectioning machines, grinders/polishers, mounting equipment and supplies, microscopes, and hardness testers.

LightSpeed Concepts * **223**
1600 Executive Dr.
Jackson, MI 49203
lightspeedconcepts.net
(517) 908-8548

LightSpeed Concepts designs and manufactures 3D Sand Printers in the USA.

Lincoln Electric Automation * **811**
1700 Jetway Blvd.
Columbus, OH 43214
rimrockcorp.com
(614) 471-5926

Lincoln Electric Automation is a trusted partner to the metal casting industry, delivering Rimrock products and expert engineering to boost production quality, speed, and consistency. From spraying and ladling to part handling and finishing, our full-service team designs and integrates automation solutions—from single-tool upgrades to turnkey multi-robot cells.

Loramendi **644**
250 S Fewnway Dr .
Fenton, MI 48430
www.loramendi.com
(810) 629-0850

Loramendi CoreMaker is a foundry machinery company based in Vitoria-Gasteiz, Spain, specializing in advanced sand core making solutions for metal casting foundries. Loramendi is a global leader in supplying complete core manufacturing systems and turnkey installations used in high-volume precision casting for automotive and industrial sectors.

LPM North America Inc. * **712**
27281 Las Ramblas Ste. 200
Mission Viejo, CA 92691
Estados Unidos
www.lpm-it.com/en/
(734) 564-8230

Since more than 25 years LPM is leading in the Low Pressure Casting Machines and furnaces and now also presenting Counter Pressure casting machines and furnaces. Under the brands FATA ALUMINUM and GFS GRAVITY we specialize in Gravity Casting Machines (for aluminum production) as well as Complete Casting Cells for Precision Sand Casting technology. Under the brand UNIMOLDS we manufacture also foundry tooling for Gravit, Low Pressure (molds and core boxes). Under the brand CORAM we specialize in melting and holding furnaces as well as degassing unit.

LS Industries **838**
710 E 17th St. N
Wichita, KS 67214

LS Industries is a family-owned manufacturer with over 49 years of experience delivering industrial cleaning and surface preparation solutions. We design and build rugged, reliable equipment—including parts washers, vibratory systems, blasting equipment, and dust collectors—for demanding industrial applications. Our machines are engineered to improve part quality, reduce labor, and increase process consistency. Backed by proven engineering and responsive support, LS Industries helps customers keep production running efficiently.

M**Magaldi Technologies *****731**

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Alpharetta, GA 30022
www.magaldi.com
(678) 705-9219

Founded in 1929, Magaldi Group is the world's leading manufacturer of steel belt conveyors to handle materials in severe conditions - including high temperature, abrasive and heavy materials - used in foundries, coal-fired power plants, steel mills, mineral processing plants, cement plants, waste-to-energy plants and solid-fuel power plants, with more than 1,500 installations worldwide.

MAGMA Foundry Technologies Inc. ***323**

10 N Martingale Road
Suite 425
Schaumburg, IL 60173
www.magmafoundry.com
(847) 969-1001 Ext. 1005

MAGMA is a world-wide leading developer and supplier of software for simulation and optimization of casting designs and processes. The name MAGMA stands for robust and innovative casting solutions as well as a strong partnership with the metal casting industry. By combining casting process knowledge with simulation competence, with our customers to use our expertise to their advantage in the profitable optimization of castings and casting processes. With a commitment to casting excellence, we actively work with our customers to integrate technology of simulation into their operations.

Matthews Additive Technologies ***629**

Two NorthShore Center
Pittsburgh, PA 15212
www.matthewsadditivetechnologies.com
(855) 264-5200

Matthews Additive Technologies is a full service provider of 3D printed molds and cores with locations in Pittsburgh, PA and Searcy, AR. With 100 years of foundry experience, we understand the detailed requirements of metal casting, particularly when it comes to complex parts and components. With 10 printers, experienced designers, and an expert project management team, we're ready to partner with you to deliver your project with the highest levels of precision and repeatability.

Metaltec Steel Abrasive Co. ***822**

41155 Joy Rd.
Canton, MI 48187
www.metaltecsteel.com
(734) 459-7900

Michigan Pneumatic Tool ***510**

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www.michiganpneumatic.com
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We are Michigan Pneumatic Tool - we develop, manufacture, repair and sell industrial air tools, parts and hear. We engineer, source, build and stock new, remanufactured, re-engineered, brand-name, and even hard-to-find legacy equipment. We are YOUR Arsenal of Industry - Since 1945 we have fought to earn product and industry knowledge by taking our customers' field challenges head on; giving us unrivaled expertise to deliver the customized solutions and personalized service you need. Visit us at michiganpneumatic.com, or call 800-521-8104 today to learn how we can make a difference for you.

Miller and Company ***808**

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(847) 696-2400

Mintura LLC**746**

185 Great Neck Road
New York, NY 11021
www.mintura.com

Mintura is a global supplier and trusted trading partner of industrial raw materials serving the steel, aluminum, foundry, refractory, and powdered metallurgy sectors. With over 20 years of industry experience, we deliver high quality materials backed by reliable sourcing, strict quality control, and integrated logistics solutions worldwide. Inventory is maintained in Monaca, PA and Baltimore, MD, with plans to expand to 3 to 4 additional South, Midwest, and Southeast U.S. regions. Lead time is 3 to 5 business days from U.S. warehouses and 4 to 6 weeks for direct shipments.

Miracle Steel ***817**

50 Carriage Hill Ln.
Laguna Hills, CA 92659
www.miraclesteels.com
(714) 955-9006

Miracle Steel: Is the manufacturer/distributor of high-quality Kotar brand of low-carbon steel shot in the Americas, developed from extensive R&D for superior hardness. Kotar maintains strength, resists breaking, and offers a longer lifetime, validated in rigorous testing and customer applications, resulting in shorter processing times.

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SANDMAN is a globally patented, cloud-based data analytics software designed to optimise the entire green sand foundry system. Standing at the forefront of casting technology, **SANDMAN** offers more than just analytical insight; it provides real-time, actionable guidance that keeps foundry systems and processes operating at peak efficiency. At the heart of this innovation is the ability not only to optimise sand but also to digitally transform the end-to-end foundry ecosystem, creating a seamless flow of data from sand preparation to molten metal pouring.

N

NDT Group Inc. *

449

3650 Broadmoor Ave SE
Suite 104
Kentwood, MI 4951
www.ndtgroupinc.com
(616) 862-1166

NDT Group, Inc. offers a large selection of inspection techniques from SNT-TC-1A qualified inspectors that have been in the industry for 20+ years. We provide both laboratory and field services with: Visual (Including AWS Senior CWI) Magnetic Particle Liquid Penetrant Ultrasonic Radiographic Eddy Current Positive Material Identification Cut and Etch Analysis Hardness and many others! We are also available for consult if you are interested in: Welder qualification and certification Weld program conformance Weld engineering NDT Level 3 Services

Nederman MikroPul *

729

4433 Chesapeake Dr.
Charlotte, NC 2821
www.nedermanmikropul.com
(704) 399-7441

Nederman MikroPul is a global leader in industrial air filtration for heavier dust collection applications such as foundry and smelting. The company has global expertise in pulse jet and flat bag dust collectors, as well as air scrubbers and cyclones. The main advantages MikroPul offers is a beginning to end offering of equipment, design services, fabrication and after-market support that is un-paralleled in the marketplace. MikroPul is part of the Nederman group. Nederman is a global leader across many applications of fume and dust capture.

New London Engineering *

349

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New London, WI 54961
www.nleco.com
(800) 437-1994

At New London Engineering, we deliver expert solutions to your conveying challenges, offering consultation, professional engineering services, and the industry's top conveyor equipment, all on a timeline that keeps your business moving forward. Our team provides guidance at every step, from concept to finished product, to ensure you find a solution that maximizes your processes and achieves your manufacturing and material handling goals.

Non-Ferrous Founders' Society

837

6128 Beckley Drive North, #1034
Battle Creek, MI 49014
nffs.org
(847) 299-0950

The Non-Ferrous Founders' Society (NFFS) is the premier North American trade association for the non-ferrous metalcasting industry. NFFS is your proven resource for information and services vital for effective non-ferrous foundry management.

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NORICAN *

709

1606 Executive Drive
LaGrange, GA 30240
www.norican.com
(630) 947-3317

NovaCast Solutions USA Inc. *

512

1952 McDowell Rd., Ste. 110
Naperville, IL 60563
www.novacastusa.com
(630) 450-1647

Founded in 1981 in Ronneby, Sweden, NovaCast provides reality-based solutions that help foundries "cast better." By combining metallurgical expertise with advanced simulation, we empower professionals to predict defects, automate processes, and maximize resource efficiency. With a global presence in over 50 countries, NovaCast is a dedicated partner in building a smarter, more sustainable industry. From advanced melt control with ATAS-MetStar to NovaFlow&Solid casting simulation, our mission is simple: Every casting counts.

Novis Works LLC * **330**
400 Shroyer Ave SW
Canton, OH 44702
www.novisworks.com
(614) 403-0737

Novis Works, LLC is a specialty chemical company located in NE Ohio that developed and uses a unique method of manufacturing. Our Technical Sales Team has over 300 years of combined experience in the metalcasting industry. Novis Works is strategically linked with MT Systems, an industry leader in process control & system automation. This unique blend of experience yields superior process support, process control and chemical knowledge. Products include specialty resins, release agents, sand additives, adhesives, amine recycling and engineering services. Please visit us at Booth 330.

Nowak Machined Products **339**
6170 Norton Center Dr
Norton Shores, MI 4944
nowakmp.com
(231) 798-8851

Founded in 1982 by brothers Joe and Ken Nowak, NMP specializes in providing CNC machining services to customers in a variety of markets. In addition to providing machining services, we are also capable of supplying ready-to-use machined castings, forgings, extrusions, and bar stock. The one stop shop approach allows us to better serve our customer base, by providing them with a simple sourcing solution.

NowPurchase (Biz Hero India Pvt. Ltd.) **546**
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Bidhannagar, Kolkata, West Bengal 700091
Kolkata, West Bengal 700091
India
nowpurchase.com
+91 90737 38181

NowPurchase provides a trusted & transparent procurement solution for high-quality raw materials like metal scrap, alloys, & additives, empowering metal manufacturers to streamline operations & improve efficiency. The platform is supported by a WhatsApp bot for real-time price & stock discovery, alongside a dedicated team offering on-ground service & quality assurance.

O

OmniSource **818**
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Fort Wayne, IN 46804
www.omnisource.com
(260) 422-5541

Omni is a trusted, dependable source of ferrous & non-ferrous recycled metals for foundry & mill applications, including busheling, cast, P&S, shred, slitter, copper, aluminum, brass, & stainless alloys – all produced to controlled metallurgical &

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Otto Junker USA Inc. * **222**
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Canton, OH 44706
www.otto-junker.com
(630) 231-3770

Founded in 1924, Otto Junker designs and supplies coreless and channel induction furnaces and pouring systems, with proven and patented technology of IGBT & mutli-frequency converters, and Optical Coil Protection (OCP+) along with complete thermo-processing plants for cast iron, steel, and non-ferrous alloys. Otto Junker USA has supported North America for 40 years with service, parts, installation, and engineering. Together, we deliver a century of furnace expertise and decades of local support, helping foundries boost productivity, efficiency, and casting quality.

P

PADNOS * **314**
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Wyoming, MI 49418
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(800) 442-3509

Every foundry is unique and we create products to meet your specific requirements. You need quality, consistency, and on-time delivery to keep your business moving. We have been meeting those needs for 120 years, transforming scrap into reusable resources for foundries just like yours.

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and service teams develop best-in-class solutions that drive operational excellence, reduce downtime, reduce total cost and achieve long-term operational success.

Partner Pattern **211**
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Winona, MN 55987
partnerpattern.com
(507) 474-9095

Foundry tooling and pattern supplier.

Polytec USA Corp. * **422**
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Houston, TX 77080
www.bmggroup.com
(346) 571-2583

Polytec NORTH AMERICA is the American company representing Polytec. Polytec is expanding its expertise into the foundry market, introducing a comprehensive range of robotic systems designed to enhance safety, optimize operational efficiency, and streamline industrial processes. With a strong background in robotic automation for heavy industries, Polytec now brings its cutting-edge solutions to metal casting, ensuring greater precision, reliability, and worker protection.

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Canonsburg, PA 15317
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www.pyrotek.com
(866) 797-6835

Pyrotek® is a global manufacturing leader and technology innovator, engineering advanced systems and delivering experienced

consulting services to the aluminum industry. Pyrotek has global resources and dependable local support in more than 35 countries with over 80 locations. Pyrotek's foundry team helps aluminum die casters and foundries improve metal quality and overall operational safety and performance with integrated systems for melting, metal holding, transfer, treatment, and casting.

Q

QF Engineering * **229**
18245 N Pima Rd.
Scottsdale, AZ 85255
qf-engineering.org
(630) 803-9277

Q&F Engineering is dedicated to delivering advanced engineering and fully integrated solutions for molding processes, core blowers, automatic grinding, sand thermal reclamation, patterns/core boxes, and alloys. Our trusted partners include Kunkel-Wagner (Germany), Automatic Foundry Solutions, Dalca Robotics, Resand Oy, Walbert, and Rotavi. Cost-effective foundry operations require continuous alignment with best practices and high-technology solutions to ensure quality casting and global competitiveness. Guiding investment decisions, operational cost stands as one of the most critical drivers.

Quad City Safety Inc. * **212**
5311 Tremont Ave
Tremont, IA 52807
www.quadcitysafety.com
(563) 445-2170

R

REFCOTEC Inc. * **400**
542 Collins Blvd.
Orrville, OH 44667
www.refcotec.com
(330) 683-2200

REFCOTEC manufactures high-performance refractory coatings, binder systems, sand additives, partings, adhesives and many other consumable items used in the mold and coremaking process. Our solutions are engineered to improve casting quality, enhance surface finish, and increase production efficiency across ferrous and non-ferrous castings.

Refractory & Insulation Supply Inc. * **409**
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www.refins.com
(563) 296-7434

Refractory & Insulation Supply, Inc. is a distributor of foundry refractories and coatings and the premier manufacturer of precast shapes in the US.

Renaissance Services * **544**
 1 Herald Square
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 Fairborn, OH 45324
www.ren-services.com
 (937) 322-3227

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Resand Oy **226**
 Pruukinraitti 8-12
 Nuutajärvi 31160
 Finland
resand.eu
 +358 40 484 0280

Rev1 Technologies **251**
 2901 Auburn Rd. Suite 800
 Auburn Hills, MI 48326
rev1tech.com
 (248) 707-2950

Rev1 Technologies is a Michigan-based solutions provider specializing in advanced manufacturing technologies including 3D scanning, 3D printing, AI-powered vision inspection, and metrology systems. Serving automotive, aerospace, and manufacturing industries, Rev1 is an authorized reseller for leading brands like SHINING 3D, CreatBot, Bambu Lab, HeyGears, and SwitchON DeepInspect. Our team delivers comprehensive support from equipment selection through implementation and training, helping manufacturers improve quality control, accelerate prototyping, and optimize production workflows.

Roboticom - Fabbrica Machinale * **714**
 Via Guntini 13
 Cascia, Pisa 56021
 Italy
www.roboticom.it

RS Robot Service **745**
 Via Cascina Cervo 8 / 10
 Carpedolo, Italy 25013
 Italia
www.robotserviceamerica.us
 +39 030 99 66 713

RS Robot Service SRL is an Italian company, thanks to their over-20 years of experience is specialized in project and realize of robotic machines in cutting, deburring, grinding and polishing in casting parts. Regarding the automotive sector we have a completely robotic line dedicated and developed for metal finishing. We are present in US with an office and American Team in South Carolina, for sales & technical support for US customer.

S

Saint Gobain * **813**
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 Worcester, MA 01606
www.refractories.saint-gobain.com

Saint-Gobain Performance Ceramics & Refractories has curated a range of refractory solutions for key metallurgical and high-temperature processes. With decades of practical expertise leveraging high-performance refractories throughout manufacturing chains, Saint-Gobain is one of the world's leading supplier of expert, value-added refractory solutions.

Saveway USA **410**
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 North Canton, OH 44720
www.savewayusa.com
 (330) 966-9300

Saveway USA is a leading provider of advanced furnace-lining monitoring and safety technology for foundries, steel producers, smelters, and glass operations. With over 33 years of global expertise, we deliver real-time refractory-thickness measurement system that keep furnaces safer and running longer. With two locations in USA, Saveway USA combines German-engineered precision with responsive U.S. service—offering 24/7 remote support on-site training, and consulting to help customers reduce unplanned downtime, extend refractory life, and improve overall plant safety and efficiency.

Scientific Dust Collectors * **844**
 4101 West 126th Street
 Alsip, IL 60803
www.scientificdustcollectors.com
 (708) 597-7090

Scientific Dust Collectors (SDC) began business in 1981. SDC is an autonomous division of Venturedyne Ltd., a large diversified industrial manufacturing corporation. All dust collector design; manufacturing, applications and sales support are done in our Alsip (Chicago) location providing close control over all key aspects of our business. We manufacture Baghouse & Cartridge Dust

Collectors, Bin Vent & Filter Receiver Dust Collectors, Cyclone Dust Collectors & Downdraft Tables. We also supply PreCoat Systems, Drop Out Boxes, Explosion Vents, Fan Silencers, NFPA Guidance & other Engineering.

Selee Corp. * **214**
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 Hendersonville, NC 28792
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 Rosenberg, TX 77471
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CastBall is a premium, high-tech spherical ceramic molding sand designed to achieve the highest standards in metalcasting. Utilizing its optimized properties, users can expect to attain exceptional dimensional precision and a flawless surface finish in their final products. CastBall is available globally through its exclusive distributor, Sintex Minerals.

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 Grand Ledge, MI 48837
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 (517) 371-2460

Sinto offers innovative, top-class solutions to meet the various needs of customers and industries all over the globe. Sinto America, Inc. and its operating companies are dedicated to providing superior customer service by offering practical, cost effective and technologically advanced equipment and service solutions to a variety of industries throughout North America. Sinto America focuses on six primary markets – Foundry Mold and Core Making, Sand Processing, Bulk Material Handling, Automation, Surface Treatment, and Surface Technologies.

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(682) 269-1456

SIR Robotics is a Global Robotic System Integrator with more than 3,000 applications installed worldwide, providing robotic solutions to the foundry industry since 1984. From simple tending and handling units up to grinding / cutting / degating systems, SIR's unique aim is to identify the idea, the solution and the technology needed to ROBOTIZE your technological process.

Smart Sand Industrial Product Solutions * **850**
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At SmartSand, we proudly own and operate four premium northern white sand mines from the St. Peter to the Wonewoc formations. Our extensive product range, from 8/16 to 100GFN. We feature: Diverse Product Selection: From coarse to fine grains, we have it all. Extensive Shipping Network: With access to 6 railroads, we deliver across the USA, Canada, and Mexico. Flexible Loading and Shipping Options - high-speed truck loading for both pneumatic and bottom dump, and bulk shipping via rail. Custom Solutions: Offering custom blending and in-house packaging to suit your requirements.

Southeastern Foundry Products & Foundry Coatings Inc. * **307**
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Alabaster, AL 35007
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Southeastern Foundry Products & Foundry Coatings, Inc. (SEFP) is a specialty coating manufacturing company for both alcohol and water base coatings. We supply coating and other products such as sleeves, filters, and releases for all foundries.

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SPECTRO Analytical Instruments * **328**
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Wilmington, MA 01887
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(800) 548-5809

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www.steelgripinc.com
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Steel Grip, Inc. is a U.S. manufacturer of high-performance PPE, based in Danville, Illinois, with decades of experience and four U.S. production facilities. We offer 3,000+ stock protective products plus fully customizable solutions, including electrical-protective and high-temperature garments, designed to meet safety standards, enhance durability, and perform in demanding environments.

Summit Foundry Systems Inc. * **407**
2100 Wayne Haven St.
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www.summitfoundrysystems.com
(260) 749-7740

Summit provides Sand Systems, Automatic Mold Handling Indexing Systems, Casting Handling Systems, and Turnkey Foundry Design Projects from Concept through Installation. Exhibit will highlight various projects for the Foundry Industry. Video clips will illustrate the latest concepts in operation of Automatic Mold Handling Indexing Systems to integrate with Automatic Molding Machines. COOLtech Sand Cooling Water Addition System will be featured. Summit provides individual components such as Conveyors, Bucket Elevators, Rotary Screens, Sand Feeder and Storage Bins.

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Thermtronix Corporation

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Cast in North America Exhibitor Booth List - Alphabetical *(As of 2/16/2026)*

A		L	
Aalberts Surface Technologies *	738	Lethbridge Iron Works (Leth Iron) *	737
Alliant Castings *	340	Ligon Permanent Mold Group *	741
Atlas Foundry Co. Inc.	639		
B		M	
Baker Manufacturing Company LLC *	637	Maclean Power Systems *	535
		MLS LED Inc.	338
		Monarch Industries Limited	635
C		O	
Casting Solutions LLC *	641	Off Site Manufacturing Technologies *	541
Charter Casting *	534	Osco Industries Inc. *	435
E		P	
Eck Industries Inc. *	440	Pier Foundry & Pattern Shop *	434
Elyria Foundry *	341	Product Development & Analysis (PDA) LLC *	334
F		R	
FC Casting Solutions	336	Rochester Metal Products Corp. *	735
Forte Tooling Technologies Ltd. *	638		
Foundrion Group *	634		
G		S	
Great Lakes Castings LLC *	540	SOUCY *	438
		St. Marys Foundry Ltd. *	335
H		T	
Harmony Castings LLC *	740	The Lawton Standard Co. *	734
HyPro Inc.	436	Tooling & Equip International *	739
K		W	
Kenona Industries	539	Waupaca Foundry *	439
Kimura Foundry America Inc. *	736	Willman Industries Inc. *	337

Cast in North America Exhibitor Booth List - Category *(As of 2/16/2026)*

Alloys/Materials – Aluminum		Alloys/Materials - Copper-Base	
Aalberts Surface Technologies *	738	Foundrion Group *	634
Eck Industries Inc. *	440		
Foundrion Group *	634	Alloys/Materials - Iron	
Harmony Castings LLC *	740	Alliant Castings *	340
HyPro Inc.	436	Atlas Foundry Co. Inc.	639
Kenona Industries	539	Baker Manufacturing Company LLC *	637
Ligon Permanent Mold Group *	741	FC Casting Solutions	336
MLS LED Inc.	338	Foundrion Group *	634
Product Development & Analysis (PDA) LLC *	334	Great Lakes Castings LLC *	540
Tooling & Equip International *	739	HyPro Inc.	436

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Kenona Industries	539
Lethbridge Iron Works (Leth Iron) *	737
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Product Development & Analysis (PDA) LLC *	334
Rochester Metal Products Corp. *	735
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The Lawton Standard Co. *	734
Waupaca Foundry *	439
Willman Industries Inc. *	337
St. Marys Foundry Ltd. *	335

Alloys/Materials – Magnesium	
Foundrion Group *	634

Alloys/Materials – Steel	
Aalberts Surface Technologies *	738
FC Casting Solutions	336
Foundrion Group *	634
HyPro Inc.	436
Kenona Industries	539
Product Development & Analysis (PDA) LLC *	334
The Lawton Standard Co. *	734

Alloys/Materials - Superalloys	
Kenona Industries	539

Engineering/Capital Equipment - Casting Design	
Baker Manufacturing Company LLC *	637
FC Casting Solutions	336
Kimura Foundry America Inc. *	736
Maclean Power Systems *	535
Product Development & Analysis (PDA) LLC *	334
SOUCY *	438
The Lawton Standard Co. *	734

Engineering/Capital Equipment - Engineering	
Baker Manufacturing Company LLC *	637
Ligon Permanent Mold Group *	741
Product Development & Analysis (PDA) LLC *	334
St. Marys Foundry Ltd. *	335

Engineering/Capital Equipment - Heat Treatment	
Charter Casting *	534

Engineering/Capital Equipment - Patternmaking & Tooling	
Charter Casting *	534
Forte Tooling Technologies Ltd. *	638
Pier Foundry & Pattern Shop *	434
The Lawton Standard Co. *	734

Engineering/Capital Equipment - Value-Added Services (Machining, Painting, Assembly, & etc.)

Baker Manufacturing Company LLC *	637
Charter Casting *	534
HyPro Inc.	436
Ligon Permanent Mold Group *	741
Maclean Power Systems *	535
Off Site Manufacturing Technologies *	541

Engineering/Capital Equipment - Robotics & Automation	
St. Marys Foundry Ltd. *	335

Melting/Melting Quality - Casting Quality & Testing	
Kimura Foundry America Inc. *	736
The Lawton Standard Co. *	734

Melting/Melting Quality - Ferrous Melting	
Alliant Castings *	340
Casting Solutions LLC *	641
Osco Industries Inc. *	435
St. Marys Foundry Ltd. *	335

Melting/Melting Quality - Ferrous Pouring	
Pier Foundry & Pattern Shop *	434
SOUCY *	438

Melting/Melting Quality - Nonferrous Melting	
Casting Solutions LLC *	641

Molding Processes - Chemically-Bound Sand	
Eck Industries Inc. *	440
Kimura Foundry America Inc. *	736
St. Marys Foundry Ltd. *	335
Willman Industries Inc. *	337

Molding Processes – Continuous	
Charter Casting *	534

Molding Processes - Diecasting	
MLS LED Inc.	338

Molding Processes - Green Sand	
Alliant Castings *	340
Baker Manufacturing Company LLC *	637
Casting Solutions LLC *	641
Charter Casting *	534
Great Lakes Castings LLC *	540
Lethbridge Iron Works (Leth Iron) *	737

Ligon Permanent Mold Group *	741
Maclean Power Systems *	535
Pier Foundry & Pattern Shop *	434
SOUCY *	438
Willman Industries Inc. *	337

Molding Processes - Permanent Mold	
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Elyria Foundry	341
Ligon Permanent Mold Group *	741

Molding Processes - Vacuum Processes (Sand or Metal Mold)	
Harmony Castings LLC *	740

Sand Mold/Core Making - Additive Manufacturing	
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Pier Foundry & Pattern Shop *	434
St. Marys Foundry Ltd. *	335
Tooling & Equip International *	739
Waupaca Foundry *	439

Sand Mold/Core Making – Coremaking	
Elyria Foundry	341
Great Lakes Castings LLC *	540
Maclean Power Systems *	535
Waupaca Foundry *	439

Sand Mold/Core Making - Rapid Prototyping	
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Tooling & Equip International *	739
Waupaca Foundry *	439

Sand Mold/Core Making - Sand Molding Equipment	
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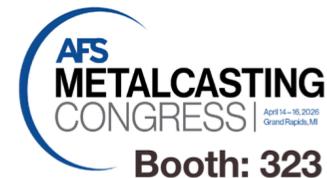
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B

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F

FC Casting Solutions **336**
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The Foundrion Group brings together twelve leading foundries strategically located across the United States and Canada. With decades of experience and a commitment to innovation, we specialize in delivering sand casting, metal casting, and aluminum alloy solutions to meet the diverse needs of industries worldwide. From complex aerospace castings to precision components for industrial manufacturing, fire protection and water work applications, our foundries pour over 100 alloys and are recognized for their ability to tackle challenging projects with unparalleled expertise.

G

Great Lakes Castings LLC * **540**
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H

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K

Kenona Industries **539**
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L

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M

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Off Site Manufacturing is an IAFT-certified CNC Machining supplier based in Chesterfield Township, MI. Off Site was formed in 1984 and is still managed by the founding members' family. Off Site specializes in machining low- to mid-volume-demand parts for a variety of industries, including Commercial Truck, Fire Protection, Engine Cooling, Mining, Water and Air Distribution, and Marine. Through our supplier network, we can source raw materials, offer several coating options, and provide other specialized services. Off Site also serves the foundry industry, often supplying Tier II machines.

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www.pierfoundry.com
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Product Development & Analysis (PDA) LLC ***334**

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www.pda-llc.com
(630) 505-8801

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R**Rochester Metal Products Corp. *****735**

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S

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405 E South St.
St. Marys, OH 45869
www.stmfoundry.com
(419) 394-3346

St Marys Foundry produces gray, ductile and ni-resist castings ranging from 1000-60,000 lbs for a variety of industries including gas compression, municipal water, pump and valve, and specialty applications.

T

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W

Waupaca Foundry * **439**

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waupacafoundry.com
(715) 258-6611

Waupaca Foundry, Inc. is North America's leading supplier of iron castings for automotive, commercial vehicle, agriculture, construction, and industrial markets. Headquartered in Waupaca, WI, the company produces gray, ductile, and high-strength ductile iron castings using advanced technology and sustainable manufacturing processes. With about 3,000 employees across facilities in Wisconsin and Indiana, Waupaca also provides precision machining and assembly, delivering durable, reliable, and innovative casting solutions.

Willman Industries Inc. * **337**

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willmanind.com
(920) 668-8526

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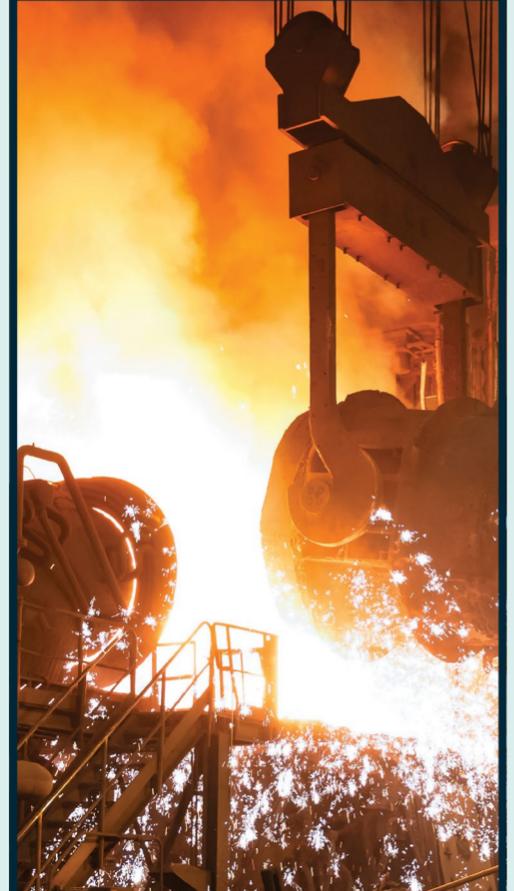
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2026 Gold Medal Recipients



Daniel Oman
Retired, Stephens City, VA

The William H. McFadden Gold Medal ... for his longstanding leadership in the EHS Division, his dedicated service as an instructor in environmental workshops, and his tremendous overall positive impact on foundries and their environmental stewardship. His service and achievements are deeply appreciated.

Daniel Oman is a Professional Engineer in numerous states with more than 40 years of experience in environmental management, specializing in solid and hazardous waste management, environmental compliance, remediation, and regulatory liability. He holds an M.S. in Civil and Environmental Engineering from the University of Wisconsin-Madison and a B.S. in Civil Engineering from the University of Delaware.



Robert C. Voigt
Professor, Penn State University, University Park, PA

The Thomas W. Pangborn Gold Medal ...for his outstanding scholarship as well as his tremendous impact in foundry education, he has inspired generations of students to become longtime metalcasting industry leaders. His service and achievements are deeply appreciated.

Robert Voigt gained three decades of academic and professional experience in metallurgical engineering, materials development, and advanced manufacturing systems. He earned his Ph.D. and M.S. in Metallurgical Engineering and a B.S. in Mechanical Engineering from the University of Wisconsin-Madison. Voigt's expertise spans cast metals and alloys, green sand casting, heat treatment, machinability, and manufacturing system control, with applications in automotive lightweighting, aerospace performance, and high-value engineered products.

2025 William J. Grede Award



Tracy Malpass
President and CEO, EJ, East Jordan, MI

Tracy Malpass will receive the William J. Grede award for his dedicated leadership and industry service. Prior to this role, he served in many different areas at EJ including Executive VP, VP of Engineering Services and Facility Project Engineer. Malpass received his Mechanical Engineering Technology degree from Lake Superior State University. Malpass has been a respected industry leader for more than 30 years.

2025 AFS Millionaires Safety Award

AFS congratulates the following AFS Corporate Member for achieving a million or more safe-hours worked without incurring a lost time injury or illness during the calendar year 2025:

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(Oakboro, NC)
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Grede Castings - Reedsburg
(Reedsburg, WI)
2,000,000 hours reached on 12/31/25

2026 AFS Service Citations



William Tinker

Director of Sales, Tinker Omega/Sinto America, Springfield, OH

The AFS Service Citation ... for his decades of service to the metalcasting industry as well as to AFS and its regional chapters. His longstanding commitment to helping foundry leaders understand solutions, solve problems, and take advantage of opportunities is deeply appreciated.

William Tinker has spent 40 years in the no-bake industry and has been President of Tinker Omega Sinto for the last 20 years. He has served on the CMI board and is past president of the Foundry Educational Foundation. He graduated from Kent State University in 1981.



Alexandria Trusov

Global Marketing Director, Alpha Resources, LLC, Stevensville, MI

The AFS Service Citation ... for her dedication and outstanding contributions to the Management Council, Marketing Division, and Women in Metalcasting at AFS. She has set a commendable example for others to emulate through her superior service.

Alexandria Trusov is a seasoned marketing professional with over 25 years of management experience in the marketing, market research, and retail arenas. Trusov joined Alpha Resources in 2020, focusing on improving the companies' marketing efforts and improving the brand foundations at each company.

2026 AFS Award of Scientific Merit



Dr. Adam Kopper

Technical Advisor, Mercury Marine, Fond du Lac, WI

The AFS Award of Scientific Merit ... goes to Dr. Adam Kopper for his enormous contributions to the American Foundry Society Aluminum Division, Technical Council, and Research Board, as well as to the metalcasting industry through research, presentations, articles, and industry service. His scientific work has had a substantial positive impact on the industry.

With nearly three decades of industry experience, Dr. Adam Kopper brings deep expertise in high-pressure die casting, lost foam casting, steel and aluminum alloys, and the application of machine learning and data analytics to manufacturing improvement. Dr. Kopper holds a Ph.D. and M.S. in Materials Science and Engineering from Worcester Polytechnic Institute and a B.S. from the University of Michigan.



Jiten Shah

Founder and President, Product Development & Analysis (PDA) LLC, Naperville, IL

The AFS Award of Scientific Merit ... goes to Jitendra Shah for his broad and positive impact across the industry in casting design and related disciplines. His scientific presentations, research, articles, and educational course instruction have led to meaningful advances in metalcasting and have inspired others to pursue similar endeavors.

Jiten Shah is the founder and President of Product Development & Analysis (PDA) LLC. Shah has been a PI and has managed contract research programs for various agencies including DARPA, ARDEC, DOD-RDECOM, SOCOM, DOE, DLA and NASA. Shah is a member with active projects at three manufacturing innovation Institutes - DMDII (Digital Manufacturing Design Innovation Institute), LIFT (Lightweight Innovations for Tomorrow) and America Makes.

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North America Sales
LAEMPE REICH

Program Chair:
Evan Letourneau
Applications Engineer
MAGMA Foundry Technologies, Inc.

DIAFORZ™ Foundry Wheels Exchange Program

Engis Foundry Solutions WHEELS SHIP IN TWO BUSINESS DAYS AT REFURBISHED WHEEL PRICES

Wheels for Roberts Sinto Barinder® Grinding Machine



- Gen II Abrasive offers:
- Longer wheel life and whiter cuts
 - Greater cost-effectiveness

Low Speed/Low Power Wheels for Grinding



- Specially engineered diamond abrasive
- Replaces 5-10 resin snag wheels depending on gates and riser sizes
- Eliminates dressing cycles
- EH&S benefits

Automated Grinding with Engis Diamond Wheels



- DiaForZ™ wheels increase efficiency 40%-45% on Automated Stand Grinding Cells
- GENII wheels increase wheel life up to 20%-25% on CNC Automated Grinders
- Cutoff wheels can be made in various thicknesses
- Cup wheels are available for robotic high-speed spindles



Barinder is a registered trademark of Sinto America, Inc.



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AFS Corporate Members (As of 2/16/2026)

0-9

13 Castings Company
3D Systems
3DCeram Inc.
76th Commodities Maintenance Group

A

AFK Corp
AW Bell Pty. Ltd.
AY McDonald Mfg. Co.
Aalberts Integrated Piping Systems
Aalberts Surface Technologies
ABC Coke
ABC Coke Drummond
ABP Induction LLC
Abrasive Removal Services
Abrasive Technology Ltd.
Accucam Machining
Accuform Precision LLC
Acme Foundry Inc.
Adalet
Advanced Material Solutions
Advanced Pattern Works
Advantage Metals Recycling LLC
Affival an Opta Group Company
AFS Institute
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Air Dynamics Testing
Air Products & Chemicals Inc.
Aircat
Airfoil Impellers
Ajax TOCCO Magnethermic Canada Ltd.
Ajax TOCCO Magnethermic Corp.
Akron Brass Co.
Akron Electric
Akron Foundry Co.
Akron Porcelain & Plastics
Alabama Casting LLC
Albarrie Environmental Services Ltd.
Alcast Co.
Alliant Castings
alliantgroup
Allied Mineral Products Inc.
Allied Mineral Products LLC - Brownsville
Allied Mineral Products LLC - Pell City
Allied Mineral Technical Services LLC
Alpha Foundry Co.
Alpha Resources Inc.
Alu-Bra Foundry Inc.
Aluminum Alloys Inc.
Aluminum Castings Company LLC
Aluminum Mold & Pattern Ltd.
AMC Mechanical LLC
America Makes
AMERICAN Cast Iron Pipe Company

American Castings LLC
American Colloid Co.
American Fan
American Foam Cast Inc.
American Foundry Society
American Iron & Alloys Corp.
American Pattern & CNC Works
American Valve & Hydrant
AMFIN SAS
Amsco Wear Products Inc.
Amsted Graphite Materials
Amsted Industries Inc.
Amsted Rail Company Inc.
AMT Inc.
AMV Soluciones SL
AMValor Cluny
Anderson Foundries
Anderson Global
Anthracite Industries Inc.
Applied Ceramics Inc.
Applied Foundry Solutions
Applied Metallurgical Corp.
AquaJet North America
Aristo-Cast Inc.
Armstrong Rapid Manufacturing
Arnold Magnetic Technologies
Asbury Carbons Inc.
Asbury Wilkinson Inc.
ASC Engineered Solutions
Ashland Foundry & Machine Works, LLC
ASK Chemicals
ASK Chemicals Canada Corp.
ASK Chemicals de Mexico S de RL de CV
ASK Chemicals Hi-Tech LLC
ASK Chemicals Manufacturing S de RL de CV
ASK Chemicals Metallurgy Inc.
Associated MetalCast LLC
ATD Engineering & Machine
Atek Metal Technologies
Atlas Foundry Co. Inc.
ATP
Auburn
Aurora Metals Division LLC (Hiler Industries)
Austin Foundry Corp.
Automation Solutions of America
Automation Systems & Design Inc.
Avalon Precision Metalsmiths
Azterlan

B

B&L Information Systems LLC
Badger Alloys Inc.
Badger Foundry Co.
Badger Mining Corp.
Bahr Bros Manufacturing Co.
Baker Manufacturing Co.
Barron Industries Inc.
Batesville Products Inc.
BCI Solutions Inc.
Bearon Manufacturing Inc.
Beaver Valley Alloy Foundry Co.
Belmont Metals Inc.
Benton Foundry Inc.
Bentonite Performance Minerals LLC
Bernier Cast Metals Inc.
Bespro Pattern Inc.
Betz Industries
BHA Altair LLC
Bingham & Taylor Corp.
Bird-Johnson Propeller LLC
B-jetting LLC
BlackPearls
Blast Cleaning Technologies
Blastec Inc.
BlueScope Recycling and Materials LLC
BM Group
Boose Aluminum Foundry Co. Inc. (BAF)
Borchert Associates LLC
BQC Foundry (Boose Quality Castings)
Bricking Solutions
Brokk Inc.
Bronco Blast Equipment
BRP-US Inc.
Brunswick Corp.
Buck Company, LLC
Burnham Corp.
Burnham Hydronics

C

C A Lawton Minster
C.L. Dews & Sons Foundry & Machinery
CADDIS Systems
Cadillac Casting Inc.
Calhoun Foundry Co. Inc.
Calumet Brass Foundry Inc.
Canfield & Joseph Inc.
Capital Refractories Inc.
CARBO
Carley Foundry Inc.
Carolina Metal Castings
Carpenter Brothers Inc.
Carrier Vibrating Equip Canada
Carrier Vibrating Equipment Inc.
Cast Aluminum Solutions LLC
Cast Products Inc.
Cast Technologies Inc.
Castalloy Inc.

Casting Solutions LLC
Caterpillar de Mexico
Caterpillar Hodges Casting Products
Caterpillar Inc.
Caterpillar Logistics Services Inc.
CCMA LLC
Centrifugal Castings Inc.
Century Brass Works Inc.
Ce-Ri-SS Materials LLC
CFM Corp.
Charlotte Pipe & Foundry Co.
Charter Casting
Charter Dura-Bar
Charter Manufacturing
Charter Steel
Chemex
Chemex Foundry Solutions GmbH
Chesapeake Specialty Products Inc.
Chicago Aluminum Castings Co.
Chicago Magnesium Casting Co.
Chicago Protective Apparel
Chris Erhart Foundry & Machine Co.
Clansman Dynamics Ltd.
Clansman Dynamics USA
Clarksville Foundry Inc.
Clay & Bailey Mfg. Co.
CMI Novacast Inc.
CMX Metals
Commercial Insurance Associates
Consarc
Consolidated Engineering Company (CEC)
Consolidated Metco Inc.
Consolidated Mill Supply Inc.
Continental Tool Group
Conveyor Dynamics Corp
Cope & Drag Kustoms
Coronado Steel Co.
Cottingham & Butler
Counter Pressure Casting (CPC) Inc.
Covia
CPFD Software
CR Maryborough Foundry
Craft Pattern & Mold Inc.
Cumberland Foundry Co. Inc.
Cummins - Meritor Inc.
Cummins Inc.
Cummins S De RL de CV
Curto-Ligonier Foundries Co.
Custom Castings Limited

D

D & L Foundry Inc.
 D W Clark Inc.
 Dakota Foundry Inc.
 Dalca Robotics
 Dante Machine & Sales LLC
 Dante Machine & Service
 Daubert Cromwell
 Davis Alloys Manufacturing LLC
 De Pere Foundry Inc.
 Decatur Foundry Inc.
 Dee Manufacturing
 Deere & Co.
 Deere-Hitachi
 Deeter Foundry Inc.
 Demir Engineering Ltd.
 Denison Industries Inc.
 Dependable Foundry Equip Co.
 Desco Manufacturing
 Didion International Inc.
 Digital Metal Inc.
 Dinamec Systems LLC
 DISA (part of NORICAN)
 Dixon Group Canada Limited
 Doerfer Field Services
 Donsco Inc. - Mt. Joy
 Donsco Inc. - Wrightsville
 Doral Corporation
 DR Metals
 Dualtech Innovative Casting Tech Inc.
 Durex Industries
 Dustmaster Enviro Systems

E

Eagle Alloy Inc.
 Eagle Aluminum Permanent Mold Castings
 Eagle CNC Technologies
 Eagle Group Manufacturers
 Eagle Precision Cast Parts Inc.
 EBAA Iron Inc.
 EC&S (Electric Controls & Systems Inc)
 Eck Industries Inc.
 Effort Foundry Inc.
 Eirich Machines Inc.
 EJ
 Electro Aco Altona SA
 Elemental Metals
 Elkem Metal Canada Inc.
 Elkem Silicon Products
 Elkhart Brass Mfg. Co. Inc.
 Ellwood Aluminum
 Ellwood Engineered Castings Co.
 Ellwood Group Inc.
 Ellwood Quality Steels
 Elyria Foundry Co.
 Emerson Appleton Group
 Emerson Automation Solutions Appleton Group
 EMSCO Inc.

Energy Point Sources LLC
 Engineered Precision Casting Co. (EPCO)
 Engis Corporation
 Enterprise Casting Corporation
 Environ Energy
 Epcor Foundry
Epic Machine Inc.
 EQI Ltd.
Equipment Manufacturers Intl. Inc. (EMI)
 Erie Bronze & Aluminum
 Ermak Foundry & Machining Inc.
 ETA Engineering Inc.
 Everett Industries LLC
 Excal Inc.
 Expert Cores of Wisconsin
 EZG Manufacturing

F

Fabri Inc.
 Fairbanks Morse Defense
 Fairmount Foundry Inc.
 Falcon Foundry Company
 Fall River Foundry
 FargoWear Inc.
 Farrar Corp.
 FATA Aluminum LLC
 Federal Bronze Casting Ind. Inc.
 Ferro Dokum San Ve Dis Tic A S
 Ferroloy Inc.
 Fill USA Inc.
 Filter Industries Inc.
 Finite Solutions Inc.
 FISA North America Inc.
 Fisher Cast Steel Products Inc.
 Flexovit USA Inc.
 Florida Pneumatic.
 Flow Science Inc.
 Flowserve Inc.
 Flury Foundry Co.
 Fonderie Laperle Inc.
 Fonderies Bibby Ste-Croix Inc.
 Ford Meter Box Co. Inc.
 Forte Tooling Technologies
 Forterra
 Foseco
 Foseco Mexico
 Foundrion Group
 Foundry Equipment Company
 Foundry Lab USA Inc.
 Foundry Products Inc.
 Foundry Solutions & Design
 Foundry Solutions and Metallurgical Services Inc.
 FPX
 Franklin Iron Works Inc.
 Fresno Valves & Castings Inc.
 Fritz Winter North America LP
 Fusium

Fusium - BSL Foundry
 Fusium - TMA Foundry

G

G&W Electric Co./Manufacturer's Brass & Aluminum Foundry
 Galt Steel Foundry
 Gamma Foundries Inc. (part of Foundrion Group)
 Gartland Foundry Co.
 Gemco Engineers BV
 Gemini Inc.
 General Chemical Corp.
 General Foundry Service Corp.
General Kinematics Corp.
 General Motors
 General Motors de Mexico SA de CV
 General Motors Fairfax
 General Motors of Canada Ltd.
 Goldens' Foundry & Machine Co.
 Graham-White Mfg Co.
 GrayMatter Robotics
 Great Lakes Castings LLC
Grede Castings
 Green Diamond Performance Materials
 Green Packaging Inc.
 GreenSand Controls Inc.
 Griffin Canada Inc.
 Griffin Industries Corp.
 Guardian Bandsaw
 Gudgeon Thermfire Intl. Inc. (GTI Inc.)

H

H & H Castings Inc.
 H Kramer & Co.
HA Group
 HarbisonWalker International
 Harmony Castings LLC
 Harrison Steel Casting Co.
 Harry H Reich Co.
 Henry Pratt Co.
Henschel Andromat Inc.
 Hensley Industries Inc.
 Heraeus Electro-Nite Canada Ltd.
 Heraeus Electro-Nite Co.
 Heraeus Incorporated
 Hickman Williams & Co.
 Hickman Williams Canada Inc.
 Highland Foundry International
 Highland Foundry Ltd.
 Hiler Industries (Kingsbury Cstg. Div.)
 Hitech Shapes & Designs
 Hi-Vac Corporation
 Hodge Foundry Inc.
 Hodge International
Hoosier Pattern Inc.
 Howell Foundry LLC
 Hsin Lien Machinery Parts Co. Ltd.
Humtown Products
 Hunt Valve Company

Hunter Foundry Machinery Corp.
 Huntington Ingalls Industries
 Huttenes-Albertus GmbH
 HWI (HarbisonWalker Intl.), a member of Calderys
 Hypertherm Inc.

I

I Schumann & Co.
 I2r Power
 IACMI - The Composites Institute
 ICD Melting Solutions
 ID Castings LLC
 IDEX Corp.
 IMERYS
 Imperial Casting Company Inc.
 Indquip Co. LLC
 Induction Iron Inc.
 Induction Technology Corp.
Inductotherm Corp.
Inductotherm Group Canda Ltd.
 Industrial Associates Inc.
 Industrial Ceramic Products Inc.
 Industrias John Deere SA de CV
 Industry 63
 Integra Castings Inc.
 InterTest Inc.
 Iron Age Designs
 Ironcast de Frontera
 IVI Inc.
 IVI South Inc.

J

J Walter Miller Co. (a member of Foundrion Group)
 J.R. Hoe
 JOEST Inc.
 John Deere Co.
 John Deere Coffeyville Works Inc.
 John Deere Des Moines Works
 John Deere Dubuque Works
 John Deere Foundry
 John Deere Foundry East Moline
 John Deere Foundry Waterloo
 John Deere Harvester Works
 John Deere Iberica SA
 John Deere India Pvt. Ltd.
 John Deere Ottumwa Works
 John Deere Power Systems
 John Deere Turf Care
 John Deere Waterloo Works
 Joy Mark Inc.
 JuggerBot 3D

K

Kautex Textron
 Ken Chapman & Associates Inc.
 Kent Foundry Co.
 Keramida Inc.
 Keystone Foundry
 Kimura Foundry America Inc.
 King Tester Corp.
 Kirsh Foundry Inc.
 Klein Palmer Inc.
 Kloster Foundry Products
 Knoebel & Associates
 Kodiak Group
 Kohler Co.
 Kolene Corp.
 Kurtz Bros Inc.
 Kuttner North America

L

L A Aluminum Casting Corp.
 Lacy Foundries LLC
LAEMPE REICH
 Lake Foundry 2020 Ltd.
 Lakeshore Sand Co.
 Larpen Metallurgical Service
 Lawton Standard St Paul
 Leading Marks LLC
 LeClaire Manufacturing Co.
 LECO Corporation
 Lemfco Inc.
 LeSueur Incorporated
 Lethbridge Iron Works Co. Ltd.
 Liberty Casting Co. LLC
 Liberty Pattern Company
 Liberty Technology Co. LLC
 LightSpeed Concepts Inc.
 Ligon Industries LLC
 Lincoln Electric Automation Inc.
 Lincoln Foundry Inc.
 Lindberg/MPH
 Littletown Foundry Inc.
 Lodge Mfg. Co.
 Louis Meskan Foundry Inc.
 LPM North America Inc.

M

MacKenzie Castings LLC
MacLean Power Systems
 Magaldi Technologies LLC
MAGMA Foundry Technologies Inc.
 Mahoney Foundries Inc.
 Mancuso Chemicals Inc.
 Manitowoc Grey Iron Foundry Inc.
 Manitowoc Pattern & Mfg Co Inc.
 Manley Bros of Indiana Inc.
 Marsh McLennan Agency - Schaumburg
 Martin Foundry
 MCC International Inc.

McWane Ductile
 McWane Inc.
 ME Global Inc.
 Mechanix Wear
 Melling Foundry Inc.
 Mercury Castings
 Mercury Marine
 Meritor Inc.
 Metal Recycling Services LLC
 Metal Technologies Auburn Casting Center
 Metal Technologies Corporate Center
 Metal Technologies Ravenna Ductile Iron Plant
 Metal Technologies SLP MX Foundry
 Metal Technologies Three Rivers Gray Iron Plant
 Metalcasting Design LLC
 Metaltec Steel Abrasive Co.
 MetalTek International
 MetalX
 MetalX Aluminum Conversions LLC
 MIA Manufacturing Inc.
 Michigan Pneumatic Tool Inc.
 Mid City Foundry Co.
 Mid-Continent Coal and Coke Co.
 Midland Manufacturing Co.
 Midvale Industries Inc.
 Midwest Aerospace Casting
 Miller and Company
 Mincer HD SA de CV
 Minerals Technologies Inc.
 Miracle Steel-KOTAR
 Mitchell Aerospace Inc.
 Modern Equipment Co. LLC
 Monett Metals Inc.
 Monitizer
 Moore M/R Specialty Co.
 Morris Bean & Co.
MPM Infosoft - Sandman
MPM Infosoft Pvt. Ltd.
 MPM Private Limited
 MPS Mankato LLC
 MRL Materials Resources LLC
 MT Systems Inc.
 Mueller Canada
 Mueller Co.
 Mueller Specialty Valve
 Mueller Water Products
 Multi-Cast LLC
 Multi-Vac a division of M & W Shops
 Muncie Castings LLC

N

National Peening Statesville
 National Peening Wilmington
 Naval Foundry & Propeller Center
 Naval Foundry & Propeller Shop
 NCDMM
 NCDMM - El Paso Makes
 NCDMM - Johnstown HQ

Nederman MikroPul
 Neenah Foundry Co.
 Neptune Technology Group Inc.
 New London Engineering
 Nimr & Chapman Manufacturing (Pvt.) Ltd.
 Nohr Casting LLC
 Nohr LLC
 Non-Ferrous Cast Alloys Inc.
 Norican Group North America Inc.
 Northfield Manufacturing Inc.
 Norton | Saint-Gobain
 Norwood Foundry Ltd.
 NOV Inc
 NovaCast Solutions USA Inc.
 NovaCast Systems AB
 Novis Works LLC
 NRB Metals LLC

O

Off Site Manufacturing Technologies Inc.
 Oil City Iron Works Inc.
 Olson Aluminum Castings Inc.
 Olympus Engineering and Design Works
 Olympus Foundry
 Omega Castings Inc.
 OSCO Industries Inc.
 Otto Junker USA (Junker Inc)

P

P W Gillibrand Co.
 P&THE Manufacturing LLC
 P&W Foundry Inc.
 Pacific Alloy Casting Co. Inc.
 Padnos
 Palmer Engineered Products
 Palmer Foundry Inc.
 Palmer Manufacturing & Supply, Inc.
 Pangborn Corp.
 Patriot Foundry & Castings
 Pearce Foundry Inc.
 Penn-Mar Castings Inc.
 Pentair
 Pentair Delavan
 Pentair Kansas City
 Pentair Ltd.
 Pentair Monterrey
 Pentair New Brighton
 Pentair North Aurora
 Pentair Pump
 Pentair Reynosa
 Pentair Valves and Controls
 Pentair Water Casting Center
 Penticton Foundry Ltd.
 Perkins Engine Co. Ltd.
 Perma-Cast Co.
 Phoenix Foundry Corp.
 PIAD Precision Casting Corp.
 Pier Foundry & Pattern Shop

Pillar Induction
 Pittsburgh Foundry & Machine Co.
 Plymouth Foundry Inc.
 Poitras Foundry Ltd.
 Polytec USA Corp.
 Porter Warner Industries Inc.
 Precision Gage LLC
 Precision Rail and Mfg. Inc.
 Premier Aluminum LLC
 ProCast Technologies Inc.
 Product Development & Analysis LLC
 Production Pattern & Foundry Co.
 Productora De Hierro Maleable SA
 ProfitGuard LLC
 Progress Rail, a Caterpillar Company
 Progressive Foundry Inc.
 Prototype Casting Inc.
 PT Coupling Company
 PushCorp Inc.
 Pyrotek Inc. - USA Foundry Division

Q

Q&F Engineering
 Quad City Safety Inc.
 Quaker City Castings Inc.
 Quality Castings Co.
 Quality Non-Ferrous Foundry
 Quigley Crucible

R

RAMPF Group Inc.
 Redford Carver
REFCOTEC Inc.
 Refractory & Insulation Supply Inc.
 Regen Aluminum
 Regen Recycling
 Reliability Concepts
 Renaissance Manufacturing Group LLC
 Renaissance Services Inc.
 RENO Refractories Inc.
 Resource Recovery Corp.
 Rheo AI
 Rheocast Co.
 Rice Industries Inc.
 Richmond Foundry LLC
 Rio Tinto Iron & Titanium Inc.
 Rio Tinto Services Inc.
 River Metals Recycling LLC
 Riverside Brass & Aluminum Foundry Limited
 Roboticom - Fabrica Machinale
 Roboticom US
 Rochester Metal Products Corp.
 Rock Island Arsenal Joint Mfg. & Tech Cntr. (RIA-JMTC)
 Roloff Manufacturing Corp.
 Romac Industries Inc.
 Rosler Metal Finishing USA LLC
 Ross Aluminum Castings LLC

S

SafePath Solutions
 Sandusky International Inc.
 Sawbrook Steel Castings Co.
 Scheuch
 Schust
 Scientific Dust Collectors
 Scott Sales Co.
 Seabee Cast Steel Foundry
 Seewise Inc.
 SELEE Advanced Ceramics
 SELEE Corporation
 Seneca Foundry Inc.
 Shellcast Foundries Inc.
 Siemens Industry Software Inc.
 Sigma Engineered Solutions
 Silver Dollar Castings Inc.
 Silver Needle Inc.
 Simpson Technologies Corp. (part of NORICAN)
 SinterCast Inc.
 SinterCast Ltd.
Sintex Minerals & Services Inc.
Sinto America
 Sioux City Foundry Co.
 SIR Robotics Inc.
 SIR Spa
 Sloan Valve Co.
 Smart Sand Inc.
 Smith & Richardson Mfg. Inc.
 Solar Turbines Inc.
 Southeastern Foundry Products & Foundry Coatings Inc.
 Southern Aluminum Foundry & Machine Inc.
 Southern Cast Products Inc.
 Southland Metals Inc.
 SP Foundry
 Spartan Pattern
 SPECTRO Analytical Instruments
 Speedie Recycling
 Spring City Electrical Mfg. Co.
 Spuncast Inc.
 SRC Pipeflow Technology Center
 St Louis Precision Cast Products
St. Marys Foundry, Ltd.
 St Paul Foundry
 Stahl Specialty Co.
 Stainless Foundry & Engineering LLC
 Standard Alloys & Manufacturing
 Standard Manufacturers Services Limited
 Star Pipe Products
 States Engineering Corp.
 StrikoWestofen (part of NORICAN)
 Summit Foundry Systems Inc.
 Sun Metalon Inc.
 SunCoke Energy Inc.
 Superior Aluminum Alloys
 Supreme Cores Holdings LLC
 Sure-Cast Alum Foundry Co.
 Synchro ERP Ltd.
 SYSCON Sensors

T

Talladega Foundry & Machine Co. Inc.
 Taylor Foundry Co.
 TB Wood's Inc.
 TCI Aluminum
 TDJ Group Inc.
 TDS Automation Inc.
 Technetronix LLC
 Technical Metal Finishing
 Techni-Cast Corp.
 TEMC Metal and Chemical Corp.
 Temperform Corp.
 Tennetek Inc.
 Tesserract4D
 Texan Minerals and Chemicals LLC
 Textron Defense Systems
 Textron Inc.
 TH Manufacturing Inc.
 Thaxton
 The Barnes Global Advisors
 The CoreRoom
 The David J Joseph Co.
 The Federal Metal Co.
 The Hill & Griffith Co.
 The Lawton Standard Co.
The Nugent Sand Company Inc.
 The Raymond Corporation
 The Schaefer Group
 Titan Robotics Ltd.
 Tonkawa Foundry Inc.
 Tooling & Equipment International (TEI)
 Torrance Casting Inc.
 Toscelik Profil ve Sac Endustrisi AS
 Townley Foundry & Machine Co. LLC
 TPI Arcade Inc.
 TRC
 Tromley Industrial Holdings Inc.
 Tyler Pipe Co.

U

US Foundry & Mfg. Co.
 US Pipe & Foundry Co.
 Unicast Company
 United Brass Works Inc.
 Universal Electric Foundry Inc.
 Universal Tool
 Universal Welding & Engineering Inc.
 Urick Ductile Solutions
 Urschel Laboratories Inc.
 US Aluminum Castings
 USI Insurance Services - Brookfield
 USI Insurance Services - Charlotte
 USI Insurance Services - Kimberly
 USMFG Inc.

V

Valmet Inc.
 Van Hydraulics Inc.
 Vermont Castings
 Vermont Foundry Co.
 Vesuvius Canada Refractories Inc.
 Victaulic Co.
 Victaulic Co. of America
 Victaulic De Mexico S de RL de CV
 Victaulic Lawrenceville
 Viking Pump Inc.
 Viking Technologies
 Viking Wheel Blast Systems
 VIP Tooling
 Virginia Industries Inc.
 VJ Technologies Inc.
 voestalpine Railway Systems Nortrak
 Voxeljet AG
 Voxeljet America Inc.
 Voxeljet China Co. Ltd.
 Vulcan Engineering Co. Inc.
 Vulcan Metals Corp.
 Vulcan Metals Corp. Ltd.

W

Wabash Castings Inc.
 Wabi Iron & Steel Corp.
 Ward Aluminum Company
 Ward Heat Treating
 Warsaw Engineering & Fabricating Inc.
 Washburn Iron Works Inc.

Washington Mills Hennepin Inc.
 Waterous Company
 Watry Industries LLC
Waupaca Foundry Inc.
 WDC Acquisition LLC
 Wear-Tek
 Weatherly Casting & Machine Co.
 Weaver Materiel Service Inc.
 Webb Wheel Products Inc.
 Weil McLain
 West Point Industries
 West Salisbury Foundry & Machine Co.
 Western Foundries Inc.
 WGB Industries Inc.
 WGS Global Services LLC
 Wheelabrator Group (part of NORICAN)
 Whibco Inc.
 Whiting Equipment Canada Inc.
 William Goetz and Associates
 Willman Industries Inc.
 Wingfield Scale & Measure Co. Inc.
 Winoa USA
 Wirco - PIP
 Wirco Inc.
 Wisconsin Aluminum Foundry Co.
 Wisconsin Oven Corporation
 Woodland/Alloy Casting Inc.
 Worldwide Express

Y

Yamaha Marine Precision Propellers Inc.



Mark your calendars for

AFS
METALCASTING CONGRESS

April 20 – 22, 2027 | Cleveland, OH

Upcoming AFS Events and Courses

AFS Events

2026 Safety 101 Seminar

May 12 – 13, 2026 | AFS Headquarters | Schaumburg, IL

Elevate your safety and health expertise with the AFS EHS Safety & Health Committee's enhanced Safety 101 Seminar. This structured course has been designed for newcomers to the safety and health field or professionals entering the metalcasting industry. This seminar is also a valuable refresher for those whose roles include safety and health responsibilities as part of their other assigned job duties. Join us to gain a comprehensive understanding of fundamental safety and health terminology specific to the foundry industry.

2026 Government Affairs Fly-In

June 9 – 10, 2026 | Hilton Washington DC National Mall The Wharf | Washington, D.C.

Issues on Capitol Hill have millions of dollars of implications for your company, including taxation, Buy America, trade enforcement, workforce policies, EPA rulemaking, and OSHA regulations. Each year, AFS members from across the entire supply chain gather to advocate for the metalcasting industry, grow the metalcasting economy, and get an inside look at policies that affect the industry.

2026 Steel Casting Workshop

July 16, 2026 | AFS Headquarters | Schaumburg, IL

The American Foundry Society has assembled an all-star cast of senior steel foundry executives and steel-casting academic leaders from around the country. Their insightful presentations, combined with your participation in the discussions, will make for an informative day you won't want to miss. The 2026 Steel Casting Workshop will cover new innovations, ground breaking research now underway, solutions to casting challenges, and an economic forecast for steel castings. Attendees will also receive a summary of the AFS Steel Casting Survey results.

2026 Foundry Industry 4.0 Conference

July 28 – 29, 2026 | DoubleTree by Hilton Hotel Bloomington - Minneapolis South | Minneapolis, MN

Industry 4.0 is no longer just about the future. Smart, proactive manufacturers are using innovation and technology to improve productivity, profitability, and worker safety. Evaluating and implementing technology today is the key to remaining competitive and sustainable into your tomorrow. Discover how at this innovative conference focused on Industry 4.0 for metalcasters.

2026 Chapter Officers Conference

August 5 – 6, 2026 | AFS Headquarters | Schaumburg, IL

Save the date and assemble a delegation to represent your AFS chapter at the Chapter Officers Conference at AFS headquarters in Schaumburg, IL. In addition to a fun social event at Topgolf the evening of August 5, chapter leaders from all AFS chapters will convene on August 6 to discuss best practices in meeting planning, communications, recruitment, student engagement, and more. There will be a comprehensive overview of AFS membership benefits as well as the resources available to you as chapter leaders.

2026 Foundry Leadership Summit

September 14 – 16, 2026 | Stein Eriksen Lodge | Park City, UT

Register for the premier metalcasting industry Leadership Summit. Enjoy networking with a friendly group of more than 150 leaders from across the metalcasting supply chain and hear from world-class speakers discussing leadership, artificial intelligence, economic, workforce, and more. The speakers will provide foundry-industry focused expertise available at no other leadership conference.

2026 Aluminum Specialty Conference

September 22 – 24, 2026 | DoubleTree by Hilton Hotel Columbus- Dublin | Dublin, OH

Join industry professionals at the 2026 AFS Aluminum Casting Conference to explore the latest developments in molding, melt preparation, casting process control, and post-casting operations. The program features a "Back to Basics" session track that will focus on core principles and proven practices in aluminum casting — making it an ideal track for early-career professionals and a valuable refresher for seasoned attendees.

38th Environmental, Health and Safety Conference

October 6 – 8, 2026 | The Galt House | Louisville, KY

The AFS Environmental, Health and Safety (EHS) Conference returns for its 38th year as the premier event for foundry industry EHS professionals. Taking place October 6 – 8, 2026, in Louisville, KY, the conference brings together leading experts and peers to discuss the latest developments, innovations, and best practices in foundry EHS. From foundry case studies to updates from Washington D.C. to networking with other professionals, this event has what you need to enhance your knowledge, EHS programs, and performance.

2026 Additive Manufacturing Conference

October 20 – 21, 2026 | Embassy Suites by Hilton St. Louis, MO

Designer, operator, casting buyer or supplier, the 2026 Additive Manufacturing (AM) for Metalcasting conference is a must-attend event. Industry experts in AM including academia and foundry professionals, will lead sessions covering a comprehensive range of AM disciplines from designing for AM (DfAM), to 3D printed sand molds & cores, printed hard tooling & fixtures, hybrid applications, and the latest in AM applied research. Several recent foundry case studies where AM was used to solve design, tooling, and/or production problems will be presented along with cases where AM created opportunities not available through conventional methods. Is direct metal printing going to replace casting? This along with many other questions will be answered when you join the network of industry practitioners and experts at the 2026 AFS Additive Manufacturing Conference in St. Louis, MO in October 2026.

AFS Institute Courses

Gating and Riser Design 101

May 6 – 7, 2026 | AFS Headquarters | Schaumburg, IL

This course guides participants through the basic functions of gating and risers to provide clean, sound and functional castings. An introduction to fluid flow and solidification will serve to guide participants through key design concepts of various function elements of a good gating and riser design. Emphasis will be placed on hands-on activities, animations, and simulations to enhance understanding of the filling and solidification processes in a foundry. Focus will be on practical examples in iron, steel, aluminum, and copper castings. The goal is to introduce the participants to the basics of gating and riser design, common industry norms and troubleshooting.

Introduction to Metalcasting

June 4 – 5, 2026 | AFS Headquarters | 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. It covers casting design, alloy selection, process selection, design of the gating system, pouring and shakeout methods, cleaning and finishing methods, quality assurance, and key safety and environmental regulations.

Design and Optimization for 3D Sand Printing PLUS Advanced Sensing Technologies

July 22 – 24, 2026 | Missouri S&T Materials Science and Engineering Department | Rolla, MO

Learn sensor programs and get hands-on experience with 3D sand printed molds in the Wolf Foundry at Missouri S&T! This course has been revised to incorporate outcomes from the recently completed IMPACT 1.0 research project funded by America Makes/NCDMM, led by Honeywell Aerospace, which focused on surface finish improvements of 3D Sand Printed molds & cores used in the development of complex aluminum aerospace castings. Utilizing an AFS Test Casting designed for the project for demonstration, students will have the opportunity to have hands on part evaluation based on lessons learned from the program in their training!

Casting Defect Analysis

July 29 – 30, 2026 | AFS Headquarters | 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. Implementing the wrong solution can cost the foundry in terms of runtime, cost, waste, safety, reduced return on investment or profit, sales and expertise. The intention of this course is for participants to become proficient in applying a ten-step procedure that will enable them to analyze and reduce metalcasting defects by correctly identifying defects and their root causes, and determining appropriate corrective actions. This course is applicable to sand molding processes (green, nobake, coldbox, shell).

Introduction to Industry 4.0 NEW

October 14 – 15, 2026 | AFS Headquarters | Schaumburg, IL

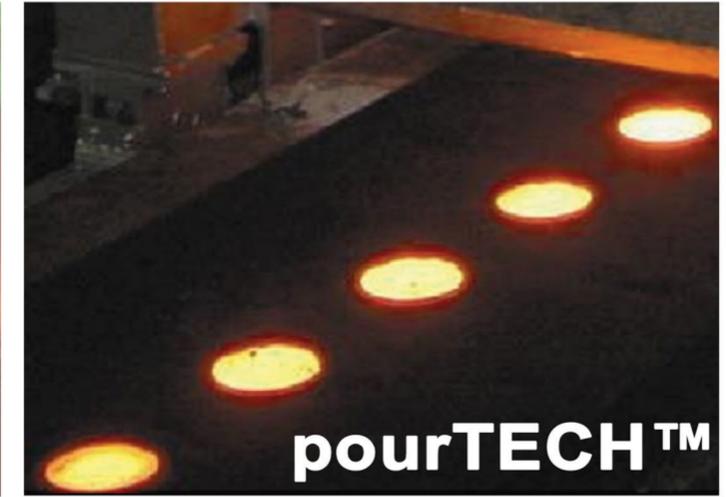
This course offers a foundational overview and hands-on experience with the technologies of Industry 4.0—the Fourth Industrial Revolution. Participants will begin by exploring patterns and lessons from previous industrial revolutions to better understand the context and challenges of Industry 4.0. The course then transitions into discussions around I4.0 technologies—such as sensors, data analytics, and automation—and how these technologies interconnect to enable digital transformation. Cultural considerations and change management strategies for implementing I4.0 in foundries will also be addressed.

Show Floor Map



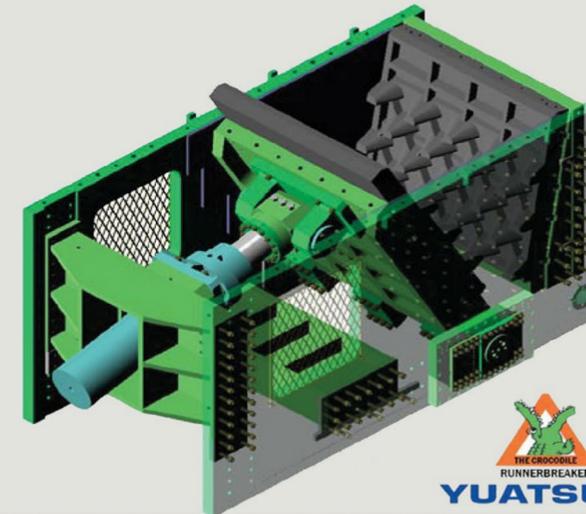
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