

Discover *Tomorrow* Today

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APRIL 12 - 15, 2025

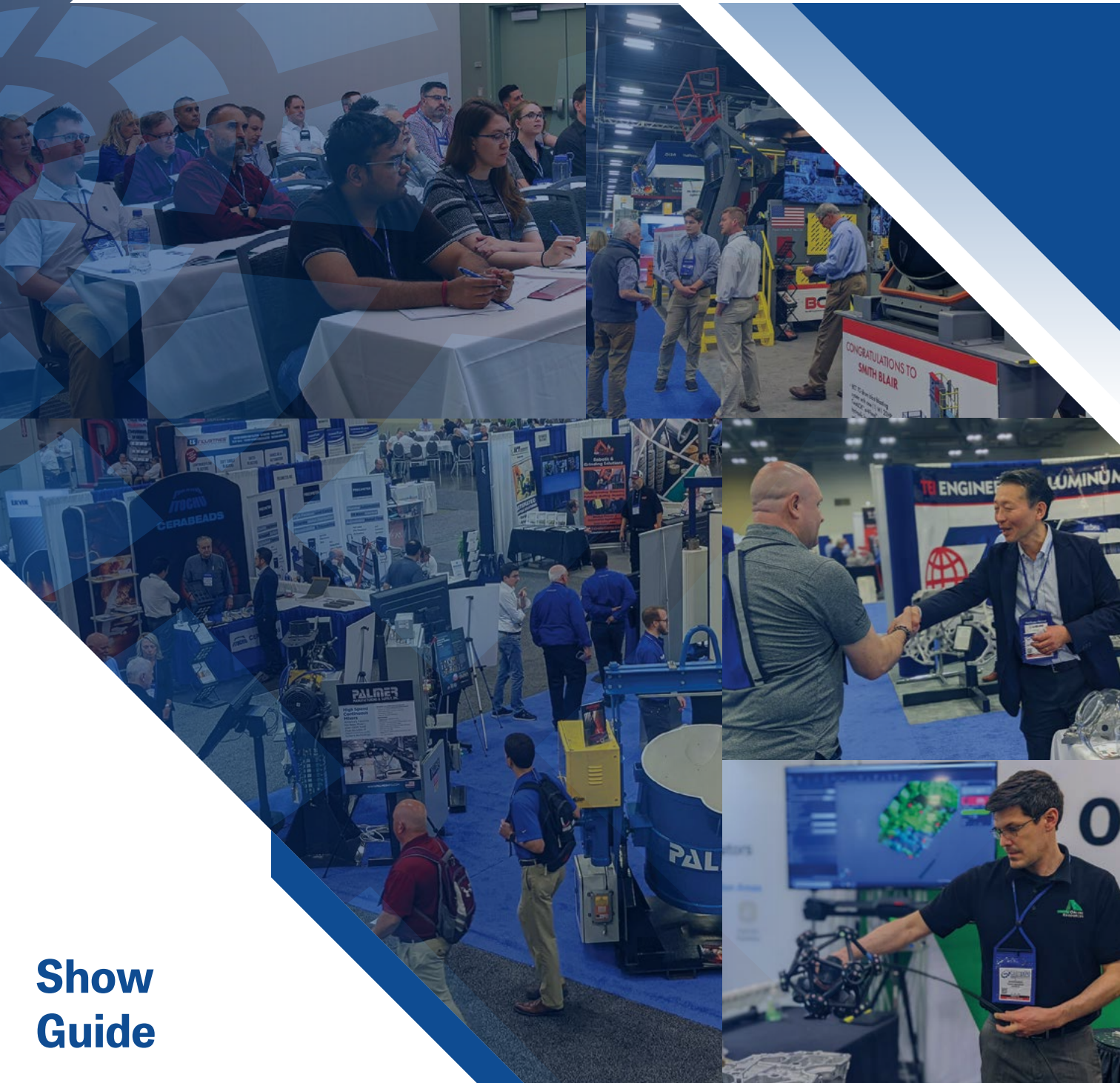
ATLANTA, GEORGIA

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Presenting the *WFO Technical Forum*



Show Guide



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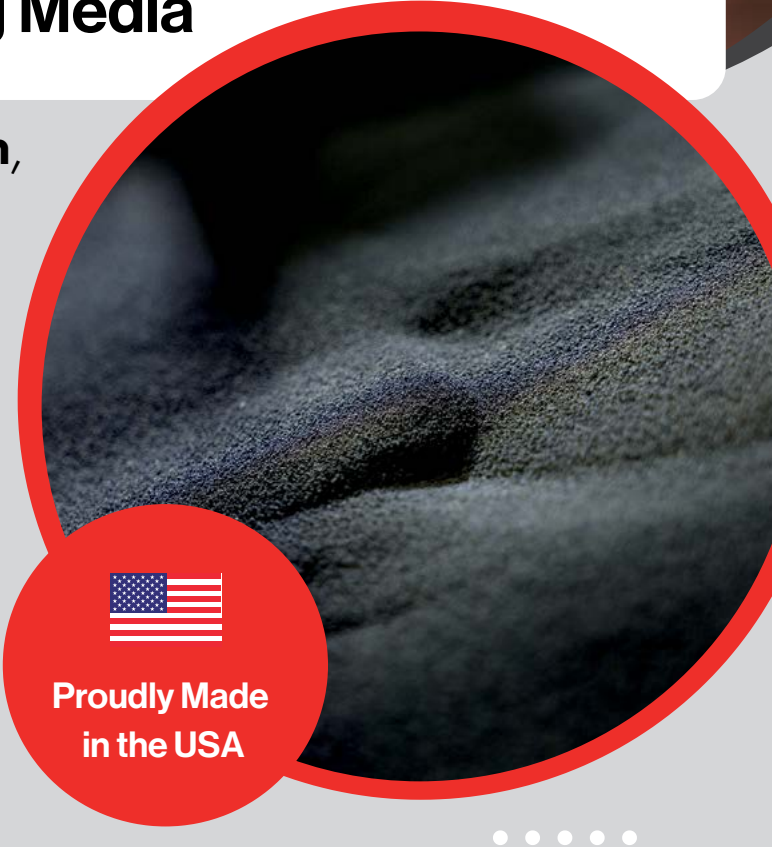
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Presenting the WFO Technical Forum



Dear AFS Members and Friends,

On behalf of the American Foundry Society, welcome to Atlanta and CastExpo 2025! We are delighted to have you join us for North America's premier foundry industry event.

The theme this year is "Discover Tomorrow Today." You'll see that theme playing throughout the show. CastExpo offers one-of-a-kind opportunities for learning, networking, and exploration. I encourage you to engage with the exhibits, 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.

CastExpo is honored this year to host the World Foundry Organization Technical Forum. The WFO will be holding their general assembly and present 4 WFO sessions as a part of our All-Access Pass Including Education Track. AFS welcomes and thanks all of the WFO delegates present at this year's Show.

AFS also extends its sincere gratitude to our presenters, volunteers, sponsors, and exhibitors. Your investment in CastExpo 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 CastExpo 2025. I wish you a fulfilling and productive experience during your time here.

Warm regards,



Doug Kurkul
CEO, American Foundry Society



APRIL 12 - 15, 2025 ATLANTA, GEORGIA
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 Presenting the WFO Technical Forum

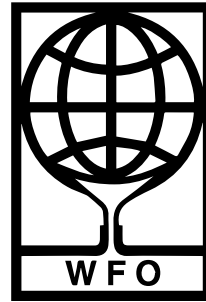


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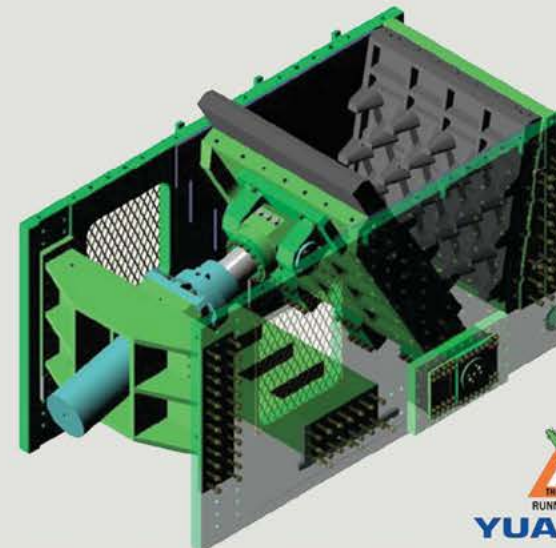
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General Information

Location and Hours

Georgia World Congress Center
 285 Andrew Young International Blvd. NW
 Atlanta, GA 30313

Registration

Georgia World Congress Center Lobby

Friday, April 11	9 a.m. – 6 p.m.
Saturday, April 12	7 a.m. – 6 p.m.
Sunday, April 13	7 a.m. – 5 p.m.
Monday, April 14	7 a.m. – 5 p.m.
Tuesday, April 15	8 a.m. – Noon

Exhibit Hall

Exhibit Hall A1-3

Friday, April 11 (Exhibitors Only)	8 a.m. – 5 p.m.
Saturday, April 12	9 a.m. – 5 p.m.
Sunday, April 13	9 a.m. – 5 p.m.
Monday, April 14	9 a.m. – 5 p.m.
Tuesday, April 15	8 a.m. – Noon

Exhibit Service Center & Other Service Desks

Exhibit Hall A1-3

Friday, April 11 (Exhibitors Only)	8 a.m. – 5 p.m.
Saturday, April 12	9 a.m. – 5 p.m.
Sunday, April 13	9 a.m. – 5 p.m.
Monday, April 14	9 a.m. – 5 p.m.
Tuesday, April 15	8 a.m. – Noon

Lead Retrieval

Georgia World Congress Center Lobby

Friday, April 11	9 a.m. – 6 p.m.
Saturday, April 12	7 a.m. – 6 p.m.
Sunday, April 13	7 a.m. – 5 p.m.
Monday, April 14	7 a.m. – 5 p.m.
Tuesday, April 15	8 a.m. – Noon

AFS Store

Exhibit Hall A1-3 – AFS HUB Booth 320

Saturday, April 12	9 a.m. – 5 p.m.
Sunday, April 13	9 a.m. – 5 p.m.
Monday, April 14	9 a.m. – 5 p.m.
Tuesday, April 15	8 a.m. – Noon

Keynote Presentations

Room: A411-412

Saturday, April 12	10:30 – 11:30 a.m.
Sunday, April 13	10:30 – 11:30 a.m.
Monday, April 14	10:30 – 11:30 a.m.
Tuesday, April 15	10:30 – 11:30 a.m.

Technical & Management Sessions

Rooms: A311, A312, A313, A314, A315

Saturday, April 12	8 a.m. – 4:45 p.m.
Sunday, April 13	8 a.m. – 4:45 p.m.
Monday, April 14	8 a.m. – 4:45 p.m.
Tuesday, April 15	8 – 10:15 a.m.

Casting Designers & Buyers Sessions

Exhibit Hall A1-3 – AFS HUB Booth 320
 in the Casting Source Theater

Saturday, April 12	9:15 a.m. – 4:45 p.m.
Sunday, April 13	9:15 a.m. – 4:45 p.m.
Monday, April 14	9:15 a.m. – 4:45 p.m.
Tuesday, April 15	9:15 – 10:30 a.m.

AFS Institute Courses

Room: A316

Saturday, April 12	8 a.m. – 3:30 p.m.
Sunday, April 13	8 a.m. – 4:30 p.m.
Monday, April 14	8 a.m. – 3:30 p.m.
Tuesday, April 15	8 – 10 a.m.

AFS Show Office, Technical Office, & Speaker Ready Room

Room: A307

Friday, April 11	9 a.m. – 5 p.m.
Saturday, April 12	7 a.m. – 5 p.m.
Sunday, April 13	7 a.m. – 5 p.m.
Monday, April 14	7 a.m. – 5 p.m.
Tuesday, April 15	7 a.m. – Noon

American Foundry Society Code of Conduct

The American Foundry Society invites attendees to participate in AFS conferences, courses, 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, video 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.
- Distribution of written materials or digital postings, whether as an exhibitor or attendee, that are offensive or include inappropriate references, metaphors or images.
- Meetings may be recorded by AFS staff for business purposes. Any recordings or transcription by the participants or through artificial intelligence, present or not, is 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. You can also email your information on the Code of Conduct form found below to AFSCodeofConduct@afsinc.org.

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 violation 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 CastExpo 2025. 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

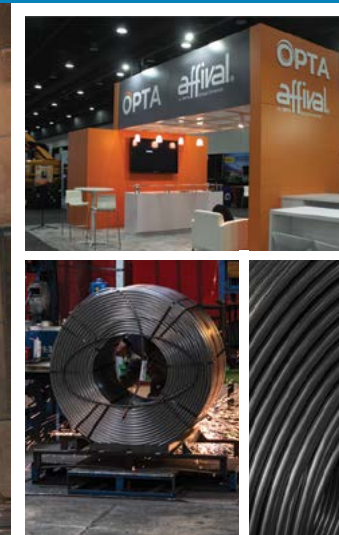
Children under 16 are permitted if accompanied by an adult and with a signed waiver.

Antitrust Policy

The Antitrust Policy Statement of the American Foundry Society is available to anyone attending CastExpo 2025. Copies are available in the AFS Show Office.



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Special Events

Ribbon Cutting Ceremony

Saturday, April 12 | 8:45 – 9 a.m.
Exhibit Hall A1 Entrance

Celebrate the start of CastExpo 2025 with a ceremonial ribbon-cutting with the AFS Executive Board.

Copper Division Luncheon

Saturday, April 12 | 11:45 a.m. – 1:15 p.m.
Ticketed Event - \$75

The Copper Division Luncheon will feature a speaker of general interest from the Atlanta area and the Copper Division will present their annual awards. The luncheon is open to everyone with an interest in Copper Alloys.

IJMC/FEF Student Research Competition

Saturday, April 12 | 1:30 – 2:45 p.m.
Casting Source Theater in the AFS HUB – Booth 320

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!

SFSA Cast in Steel Awards Ceremony

Saturday, April 12 | 3 – 4 p.m. | Room: A411-A412

Cast in Steel 2025 competition challenges university students to use modern casting tools to creatively design and produce a functioning version of a sword for George Washington. Teams are to produce a replica of one of Washington's actual swords or to design one based on his known preferences and needs. One new element for the competition is the plan to document it as a made for TV series to be shown on a major streaming service. The requirements and evaluations will be as in the past, but the performance testing will be done in qualifying rounds to select the finalists for a Grand Finale. Teams will be competing in qualifying round that allows teams from the same schools to be in different rounds. The rounds will be seeded with teams from prior winners. A grand prize and 5 other awards will be presented during the session.

Welcome Reception

Saturday, April 12 | 5 – 6:30 p.m.
Room: Registration Hall A | Ticketed Event - \$40

AFS welcomes all attendees to kick off CastExpo 2025 with a reception in the convention center. The reception

provides the opportunity to meet with customers, vendors and other attendees. Cocktails and hors d'oeuvres will be served.

Women in Metalcasting Dinner

Saturday, April 12 | 6:30 – 8 p.m. | Room: A404-A405
Ticket Required

This event is open to AFS members of Women in Metalcasting. It includes dinner, 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:



Volunteer Leadership Awards Luncheon

Sunday, April 13 | 11:45 a.m. – 1:15 p.m.
Room: A404-A405 | Ticketed Event - \$75

Join us for a fun, fast-paced awards luncheon. Catch up with friends while AFS officers welcome four new board members. The AFS Technical and Management Division chairs will also present key national and divisional awards including the presentation of the Scientific Merit and Service Citation awards.

Annual Banquet Reception

Sunday, April 13 | 6 – 7 p.m. | Omni Atlanta Hotel at Centennial Park – North Tower – International Ballroom Lobby | Cashless Bar

Join us for a memorable evening with friends new and old. The cashless bar opens at 6 p.m.

Annual Banquet

Sunday, April 13 | 7 – 9 p.m. | Omni Atlanta Hotel at Centennial Park – North Tower – International Ballroom
Ticketed Event - \$140

Join us for business networking and the presentation of the highest AFS honor, the Gold Medal and the WFO Jozef Suchy Award. The cashless bar opens at 6 p.m. The awards presentation and banquet start at 7 p.m. The President's After Party starts at 9 p.m. Recommended dress is business formal.

President's After-Party

Sunday, April 13 | 9 – 10 p.m. | Omni Atlanta Hotel at Centennial Park – North Tower – International Ballroom | Cashless Bar

Network with your industry peers at this fun capstone to the evening.

Past Presidents' Luncheon

Monday, April 14 | 11:30 a.m. – 1:15 p.m.
Ray's in the City

The annual gathering for all past AFS Presidents. Must be a previous AFS President to attend and registration required. Shuttle available for attendees.

Young Professionals Reception

Monday, April 14 | 5 – 6 p.m. | Room: A404-405

You're Invited! AFS Young Professionals Networking Reception – Cocktails & Great Connections! Ready to mix, mingle, and make valuable connections at CastExpo 2025? Join us for the AFS Young Professionals Networking Reception on Monday, April 14, from 5 – 6 p.m. in Room A404-A405 at the Georgia World Congress Center! Enjoy some beverages while networking with fellow rising leaders in metalcasting. Whether you're already on the management track or aspiring to be, this is the perfect chance to build relationships, swap ideas, and take your career to the next level—all in a relaxed, fun atmosphere. Don't miss out—grab a drink and grow your network! We can't wait to see you there!

Thank you to our Sponsors:



Alumni Dinner

Monday, April 14 | 6 – 9 p.m. | College Football Hall of Fame | AFS Alumni only. Ticketed Event - \$150

Alumni will experience the College Football Hall of Fame touring the special exhibits and permanent installations, while enjoying bold American cuisine. Must be a member of AFS Alumni to attend.

The AFS HUB

Booth 320

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

The AFS Store

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

Casting Dreams Competition

The Casting Dreams program is a national program that provides local educational opportunities and industry connections that include casting design and production that qualify for local, regional and national competitions. The Casting Dreams Competition is designed for individuals ages 8 to 18, welcoming everyone who wishes to participate.

Foundry-in-a-Box

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

Thank you to our sponsor:



The AFS Hub Putting Green

The Hub is a bustling area at CastExpo located on the exhibitor floor. Attendees will enjoy various features in The Hub, including the opportunity to test their skills on a putting green.

Thank you to our sponsor:



Casting Designers & Buyers Track

Casting Designers & Buyers Track sessions run all four days of CastExpo in the Casting Source Theater at the AFS Hub. These sessions are available to all CastExpo 2025 attendees.

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Keynote & Hoyt Lecture Speakers



Saturday, April 12 | 10:30 – 11:30 a.m.

Success is a Journey, Not a Destination

Dominique Dawes

3-Time Olympic Gymnast, Olympic Gold Medalist; First African American Gymnast to Qualify for the Olympic Games

From Olympic Gold Medalist to Broadway, and from television analyst to President of the Women's Sports Foundation, Dominique Dawes continues on a path to inspire, motivate and lead. Dawes is best known for her tremendous success as an Olympic gymnast who competed in three Olympic Games (1992, 1996, and 2000), won four Olympic medals, and has a permanent place in the U.S. Olympic Committee Hall of Fame. Fans across the nation and around the world remember her as a member of the gold-medal-winning "Magnificent Seven" at the 1996 Atlanta Games, where she also won a bronze medal as she wowed the crowd with her stunning performance in the floor exercise, becoming the first female African American gymnast to win an individual medal. She also earned a bronze medal with the U.S. team in the 1992 Barcelona Games and left an imprint in the sports world with her "back-to-back" tumbling pass. Dominique made a surprising comeback with an anticlimactic end in the 2000 Sydney Games. Dawes presentation will focus on empowering audiences to embrace a team mentality, use failure as fuel, and believe in the power of their dreams.



Sunday, April 13 | 10:30 – 11:30 a.m.

Principles for Leading High-Performance Teams

Scott Moore

Expert on Building and Leading "No-Fail" Teams and United States Navy SEAL Rear Admiral (ret.)

Having served 30 years as a SEAL leader, retired Rear Admiral Scott Moore is a master in organizational leadership and teambuilding. He served in every leadership position in the SEAL teams, including the former commander of the Naval Special Warfare Development Group, and closed out his career as the number two leader in the entire SEAL organization. He led the military's elite forces through more than 2,000 of our nation's most extreme, high-stakes missions and was deployed on SEAL team operations across the globe. He understands the importance of leadership and cohesiveness like few others can, and his experience runs the gamut from leading small groups to large-scale tactical planning. From the mountains of Afghanistan to briefings in the Oval Office, Moore is the man our leaders trusted when failure was not an option. Moore will share stories of teamwork in life-and-death circumstances and insights on recruiting, training, and equipping teams that exceed expectations.



Monday, April 14 | 10:30 – 11:30 a.m.

Hoyt Memorial Lecture - Servant Leadership: A Leadership Concept for Today's World

Frank Headington

Retired, Neenah Foundry

Our world is a mess. People are suffering to some degree or another everywhere we look. One major reason the world is like this is that people are using the power model of leadership which focuses on power and control. That coupled with the reduction in interpersonal communications has created a more divisive climate at work and in our government relations with our citizens. Servant leadership is about serving people, not using people. Serving others is the most meaningful and satisfying way for leaders to live and lead. It begins with "the natural feeling that one wants to serve."

Since starting at Neenah Foundry in 1989, Frank Headington has over 49 years of foundry experience. He has a Master's of Science in Industrial Management from Georgia Institute of Technology and a Master's of Science in Ceramics Engineering from the University of Illinois at Urbana-Champaign. Respected for his expertise in metalcasting, Headington was the 2016 recipient of the AFS Peter L. Simpson Gold Medal. Headington has been an active member of AFS serving on numerous technical committees, the AFS Board of Directors, AFS Research Board and as AFS staff holding the position of Interim Technical Director from 2017-2020.



Tuesday, April 15 | 10:30 – 11:30 a.m.

Reshoring Update for North American Foundries

Harry Moser

Founder, The Reshoring Initiative

Reshoring and foreign direct investment (FDI) have brought back over 700,000 U.S. manufacturing jobs in recent years. At the same time, the COVID crisis demonstrated the risk of long supply chains. These trends have drawn attention to the advantages of reshoring and nearshoring.

Harry Moser, Founder of the Reshoring Initiative, will provide fresh new examples of how U.S. foundries are taking advantage of the trend toward shorter supply chains and what that means for your company and your customers. Plus, discover how Reshoring Initiative's Total Cost of Ownership Estimator and the Import Substitution Program can help your company land contracts that otherwise would have gone overseas.

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Schedule at a Glance - Saturday, April 12

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Cast Iron (25-136) (25-043)		Cast Iron (25-021) (25-087)			
A312		Copper (25-039) (25-060)		Copper (25-181)			
A313		Molding (25-047) (25-158)		Molding (25-083) (25-174)			
A314		WFO (25-188)		Melting (25-166)			
A315							
A316		AFS Institute Metalcasting Process Basics: Part One					
A404-A405						Copper Division Luncheon	
A411-A412					Keynote: Dominique Dawes		
Casting Source Theater in the AFS HUB - Booth 320				Casting Designer & Buyers (25-195)	Sponsored Session: Nederman MikroPul (25-198)->		Casting Designer & Buyers (25-122)
Special Events		Ribbon Cutting Ceremony A1 Entrance ->					

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.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Engineering & Smart Manufacturing (25-086) (25-108)		WFO Cast Iron (25-025) (25-147)			
A312							
A313				Molding (25-023) (25-064)			
A314				Melting (25-176)			
A315							
A316		AFS Institute Metalcasting Process Basics: Part 2					
A404-A405							WIM Dinner 6:30 - 8 p.m.
A411-A412				SFSA Cast in Steel Awards Ceremony			
Casting Source Theater in the AFS HUB - Booth 320		IJMC/FEF Student Research Competition		Casting Designer & Buyers (25-196)			
Special Events					Welcome Reception Registration Hall A		

Schedule is subject to change.

Schedule at a Glance - Sunday, April 13

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Cast Iron (25-183)	Engineering & Smart Manufacturing (25-052)				
A312		Aluminum & Light Metals (25-069) (25-109)	Aluminum & Light Metals (25-074) (25-103)				
A313		Molding (25-117) (25-134)	Molding (25-042) (25-115)				
A314		Melting (25-143) (25-009)	Melting (25-144) (25-070)				
A315		Lost Foam (25-020) (25-051)	Women in Metalcasting (25-178)				
A316		AFS Institute Introduction to Quality and Process Improvement: Part One					
A404-A405						Volunteer Leadership Award Luncheon	
A411-A412					Keynote: Scott Moore		
Casting Source Theater in the AFS HUB - Booth 320				Casting Designer & Buyers (25-187)	Sponsored Session: Nugent Sand Company (25-199)->		Casting Designer & Buyers (25-202)
Special Events							

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.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Cast Iron (25-067) (25-089) (25-079)		Cast Iron (25-055) (25-145) (25-099)			
A312		Aluminum & Light Metals (25-148) (25-102)		Steel (25-011) (25-050)			
A313		Molding (25-114) (25-116)		Additive Manufacturing (25-034) (25-131) (25-141)			
A314		Engineering & Smart Manufacturing (25-017) (25-065)					
A315		Lost Foam (25-054) (25-045)		WFO Aluminum (25-179) (25-016) (25-180)			
A316		AFS Institute Introduction to Quality and Process Improvement: Part Two					
A404-A405							
A411-A412							
Casting Source Theater in the AFS HUB - Booth 320	Casting Designer & Buyers (25-202)	Casting Designer & Buyers (25-010)	Casting Designer & Buyers (25-204)				
Special Events							Annual Banquet Omni Atlanta Hotel at Centennial Park

Schedule is subject to change.

Schedule at a Glance - Monday, April 14

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Cast Iron (25-113) (25-056)		Steel (25-022) (25-026)			
A312				Aluminum & Light Metals (25-084) (25-120)			
A313		Additive Manufacturing (25-032) (25-094)		Additive Manufacturing (25-041) (25-078)			
A314		Metalcasting Research (25-129) (25-130)		Environmental, Health & Safety (25-177)			
A315		Marketing (25-189) (25-121)		Engineering & Smart Manufacturing (25-138)			
A316		AFS Institute The 10-Step Method for Corrective Action: Part One					
A404-A405							
A411-A412					Hoyt Lecture: Frank Headington		
Casting Source Theater in the AFS HUB - Booth 320				Casting Designer & Buyers (25-192)			Casting Designer & Buyers (25-193)
Special Events						Past Presidents' Luncheon Ray's in the City	

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.
Georgia World Congress Center Lobby	Registration Open						
Exhibit Hall A1-A3	Exhibits Open						
A311		Steel (25-073) (25-157)					
A312		Lost Foam (25-053) (25-031)		Aluminum & Light Metals (25-119) (25-112) (25-105)			
A313		Government Affairs (25-190)		WFO Molding (25-013) (25-044)			
A314		Environmental, Health & Safety (25-164) (25-175) (25-092)		Metalcasting Research (25-061) (25-140)			
A315		Talent Development (25-160)		Young Professionals (25-159)			
A316		AFS Institute The 10-Step Method for Corrective Action: Part Two					
A404-A405							
A411-A412							
Casting Source Theater in the AFS HUB - Booth 320		Casting Designer & Buyers (25-203)	Casting Dreams Competition				
Special Events						Young Professionals Reception	Alumni Dinner College Football Hall of Fame

Schedule is subject to change.

Schedule at a Glance - Tuesday, April 15

	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.
Georgia World Congress Center Lobby		Registration Open					
Exhibit Hall A1-A3		Exhibits Open					
A311							
A312		WFO Engineering (25-071) (25-104)	Aluminum & Light Metals (25-101) (25-123)				
A313		Additive Manufacturing (25-097) (25-156)	Additive Manufacturing (25-124) (25-090)				
A314		Metalcasting Research (25-128)					
A315			Government Affairs (25-191)				
A316		AFS Institute Introduction to Casting Design					
A404-A405							
A411-A412					Keynote: Harry Moser		
Casting Source Theater in the AFS HUB - Booth 320				Casting Designer & Buyers (25-194)			
Special Events							

Schedule is subject to change.

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2025 Show Schedule

Friday, April 11, 2025

9 a.m. – 6 p.m.

Georgia World Congress Center Lobby **Registration Open**

Attendee bags sponsored by:



Lanyards sponsored by:



Saturday, April 12, 2025

7 – 8 a.m.

Room: A302

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 a.m. – 6 p.m.

Georgia World Congress Center Lobby **Registration Open**

Attendee bags sponsored by:



Lanyards sponsored by:



7:30 – 10:30 a.m.

Outside Technical and Management Sessions

Coffee Station by AFS Technical and Management Sessions

Coffee station sponsored by:



8 – 9 a.m.

Cast Iron Division

Room: A311

Session Chairs:

Kathy Hayrynen
Aalberts Surface Technologies,
Livonia, MI

Eric Nelson
Eric Nelson Consulting LLC,
Mankato, MN

Survey of Magnesium Morphology in Chill Sample Castings Used for Spectrometer Analysis (25-136)

Haruki Itofuji, I2C Technology Institute, Yamaguchi, Japan

In slowly cooled sample castings, magnesium (Mg) existed as halo-like distribution around graphite nodules in former studies. In this study, Mg distribution in rapidly cooled sample castings, which had ledeburite(chill) structure and graphite nodules, was surveyed by electron probe microanalyzer (EPMA). The analyzed surface was milled using focused ion beam (FIB). As the results, Mg segregation was detected at voids and at entire section of graphite nodules. The reasons why they existed there were considered from the points of Mg characteristic and the mechanism of spheroidal graphite (SG) formation. Here, the formation mechanism on Mg halo is considered and the schematic illustration is introduced. Site theory, which proposed as the graphite spheroidization theory in 1996 by author, will be able to go more to the next step.

Development of New Certified Reference Materials for Silicon Metals (25-043)

David Kesse and Robert Logan, Elkem Materials, Inc., Pittsburgh, PA; Anette Toverad, Astrid Store-sund, Vijtha Gengatharan, Alf Yngve Guldhav, Hege Teisrud, and Kjell Einar Blandhol, Elkem, Kristiansand, Norway; Sylwia Kozlowicz, Daniel Tapa, Jadwiga Charasinka, Michal Jadwinski, Magdalena Grzegorzczak, Andrzej Hrynyszyn, Izabela Maj, Sonia Kasierot, Magdalena Knapik, Adrian Pietrzik, Ewelina Musielak, Ewa Jamroz, Marta Wolska, Tadeusz Gorewoda, Justyna Kostrzewa, and Jacek Anyszkiewicz, Lukaszewicz Research Network, Poland

A metalcaster relies on vendors to provide high quality, consistent products ensuring high quality castings are manufactured. Metalcasters ensure their chemistry through standardizing their chemical analysis equipment through the use of Certified Reference Materials (CRM). But what if those standards did not exist? How could a foundry gage themselves against another? How could a customer ensure that product from two different vendors would function the same? This was the case for the silicon metal industry. No common standards existed resulting in divergent readings of the same material from different analytical laboratories. Furthermore, differences in

8 – 9 a.m.

actual chemical analysis between vendors, supposedly produced to the same specification, are commonplace. This paper discusses the cooperative development and certification of nine new international CRM's for the silicon metal industry.

Copper Division

Room: A312

Session Chair:

Paul Clements
Sloan Valve Co.,
Augusta, AR

Lead-Free Copper Alloys Development (25-039)

Kumar Sadayappan, Canmet MATERIALS, ON, Canada; Maheswar Sahoo, Suraj Consulting, ON, Canada

Copper alloys containing lead were regularly used for drinking water applications. In response to the call to reduce the lead content in drinking water, the copper foundry industry introduced many lead-free alloys in the early 1990's. Bismuth containing alloys, developed in the AFS led consortium, were introduced in 1996. Since then, these alloys have evolved and replaced many lead containing copper alloys in drinking water applications all over the world. Industry adopted new processing technologies and testing methods to make the lead-free alloys widely usable in an affordable way. This paper reviews these developments since the early announcements.

Melting Characteristics of Copper Alloys in Pellet or Granule Form (25-060)

Gregory Svoboda, I. Schumann & Co. LLC, Bedford, OH; Charles Wood, Wieland Chase, LLC, Coldwater, MI

Comparison of melting characteristics of copper alloys in traditional ingot form as opposed to pellet or granule form. The comparison would include such parameters as:

- Melt rate
- Dross/slag formation
- Resulting grain structure
- Gas entrainment
- Electrical power consumption (induction melting)
- Material handling (furnace charging)
- Short and wide freezing range alloys

Molding Methods & Materials Division

Room: A313

Session Chairs:

Chris Lee
Carpenter
Brothers, Inc.,
Kalamazoo, MI

Jerry Thiel
Precision Casting
Technologies,
Dysart, IA

Use of Large Mini-Risers for Yield Increase and Cost Savings (25-047)

David Heckman, Lee Horvath, and Sean Harmon, ASK Chemicals, Columbus, OH

The use of insulating or exothermic riser sleeves over natural risers has established as good foundry practice as a source of extra metal to combat metal shrink defects and improve casting yield. Mini-risers have been developed to further increase the yield and reduce casting contact. Mini-risers were typically limited in size to displace risers under 6 inches in width. A new subset of XL "mini" risers have been developed to reduce large riser size by up to 50%. Significant weight can be removed from the riser portion of ductile iron and steel castings. Made via a cold box resin process, they have a high dimensional accuracy with exceptional breakdown during shakeout. This paper reviews methodology and examples of casting improvement/cost savings with XL technology.

Novel PEP-SET System to Improve Productivity and Reduce Production Cost (25-158)

Fernando Guzman, ASK Chemicals, Nuevo Leon, Mexico

A comparison of the PEP-SET systems were performed, an old version, a new development and a high performance binder, in order to compare properties such as tensiles, gas evolution and smoke generation looking for the best option to decrease defects, rework and save money.

World Foundry Organization

Room: A314

Session Chairs:

Adam Kopper
Brunswick Corp.,
Fond du Lac, WI

Brad Muller
Charlotte Pipe &
Foundry Co.,
Oakboro, NC

Casting the Future of a Strategic Industry: Thoughts on the Situation and Global Challenges for Foundry (25-188)

Jose Javier Gonzalez, World Foundry Organization, Bilbao, Spain

As the rest of the manufacturing activities around the globe, the Foundry industry is facing now a perfect storm, surrounded by supply chain disruptions, high raw materials and energy costs, market shifts or the process for industrial decarbonization, among others.

The purpose of this presentation is to help our companies identifying some of the keys of the actual global situation, to support their navigation through this complex moment. Starting from the learning from the medium-term impacts of Covid19 in the industry, the work deeps into some global uncertainties and some actual facts affecting the metalcasting market, including new and accelerated challenges. The situation in big metalcasting producers like China or India will be analyzed in light of these challenges.

Finally, the work shares some thoughts and strategies for the future which are based on drivers supported on the ability to connect with the global foundry network, creating some actual dynamics in the industry that can allow our managers to take better decisions in these very complex circumstances.

8 – 10 a.m.

The AFS Institute

Room: A316

Metalcasting Process Basics: Part One (25-149)

Patrick Kluesner, Grede Castings, Waterford Township, MI

This course provides a basic overview of the metalcasting process, tracking the path of a casting from quoting through shipping. Common metalcasting terms and highlights from the activities inside the major departments of a metalcasting production facility will be covered. Ideal for those new to the metalcasting industry.

8:45 – 9 a.m.

Exhibit Hall A1 Entrance

Ribbon Cutting Ceremony

Celebrate the start of CastExpo 2025 with a ceremonial ribbon-cutting with the AFS Executive Board.

9 a.m. – 5 p.m.

Exhibit Hall A1-3

Exhibits Open

9:15 – 10:15 a.m.

Cast Iron Division

Room: A311

Session Chairs:

Brad Steinkamp
Charter Dura-Bar,
Crystal Lake, IL

Brandon Reneau
Caterpillar, Inc.,
Dunfermline, IL

Generative Gating Method and Case Study (25-021)

Evan Letourneau, MAGMA Foundry Technologies, Schaumburg, IL

This study presents a novel method for generating gating systems directly from metalcasting process simulation results. Traditionally, skilled engineers design gating systems in CAD software, relying on established calculations and geometric features. While simulation software verifies runner performance and allows for adjustments, the design process can be labor intensive. Here, we propose a Generative Gating Method that leverages simulation data to automate gating design. The objective of Generative Gating is to produce effective runner systems that can be produced quickly and by engineers with less experience in gating design. This methodology is applied to a real-world casting scenario, replacing the existing gating system with an automatically generated design. Casting samples produced using both approaches are evaluated and compared for quality. Finally, the advantages and limitations of the proposed gating generation method are discussed.

Improved Prediction of Shrinkage Defects in SGI Castings Considering Expansion/Contraction Behavior and Mold Characteristics (25-087)

Yutaka Miyamoto, Ube Steel Co., Yamaguchi, Japan; Jun Sasaki, Daihatsu Metal Co. Ltd. Shimane, Japan; Takeshi Nakano, Tsuchiyoshi Industry Co. Ltd., Hiroshima, Japan; Haruki Itofuji, I2C Technology Institute, Yamaguchi, Japan

The effect of cooling due to the latent heat of evaporation of water and the mold wall movement were assumed as factors by observing shrinkage shape and dimensions of the SGI test blocks. Based on the results, the casting designs for the product were studied by the casting analysis using these factors. As a result, the shrinkage prediction accuracy was improved compared to the conventional method, and the casting design was established that does not generate shrinkage cavities in the casting.

Copper Division

Room: A312

Session Chairs:

Gerald Richard
MAGMA Foundry
Technologies,
Schaumburg, IL

Low-Cost Surface Alloying of Brass to Improve Corrosion Resistance in Chloramine-rich Aqueous Environments (25-181)

Carol Martinez, Swaroop Behera, Kaustubh Rane, Omid Ghaderi, Mehran Zare, Benjamin Church, Pradeep Rohatgi, and Sara Huerta, University of Wisconsin/Milwaukee, Milwaukee, WI; David Palmer, BRP-US, Inc., Sturtevant, WI

A cost-effective method of surface alloying brasses (CuZn40 and Bi-alloy C89836) during sand casting was investigated to improve their corrosion resistance. The process involved coating the mold surfaces with slurries containing suspended metal powders before pouring the melt into the sand molds. This casting process allows the internal and external surfaces of a component

Schedule is subject to change.

Melting Methods & Materials Division

Room: A314

Session Chairs:

John Gatewood
Cadillac Casting,
Cadillac, MI

PANEL: Limestone and Dolomite Research on Cupola Slag (25-166)

Travis Hepfner, BCI Solutions, Inc., Bremen, IN; Sean Golden, Textron, Inc., Muskegon, MI; Jake Ross, AMERICAN Cast Iron Pipe Company, Birmingham, AL

A general review on cupola foundries reveals that limestone is used at 60% of the foundries while 40% use dolomite stone for flux in their cupola. The reason on the selection is based on whatever is available on the least cost basis. The geographic location of the supplier to the foundry seems to be the primary reason for the selection. With the encouragement of the Cupola Committee a research team was formed to determine if there are differences in performance of limestone and dolomite on the effect of the cupola slag produced.

Molding Methods & Materials Division

Room: A313

Session Chairs:

Chris Lee
Carpenter Brothers, Inc.,
Kalamazoo, MI

The Fluidity and Solidification of Patternless Hollow Aluminosilicate Microsphere Molds Vs. 3D-Printed Silica Sanded (25-083)

Sean Derrick, Western Michigan University, Kalamazoo, MI

Jerry Thiel
Precision Casting
Technologies,
Dysart, IA

It has been shown on multiple occasions that resin-bonded Hollow Aluminosilicate Microspheres (HAM) can be subtractively machined and used as patternless molds comparable to those made from 3D-Printed silica sand. However, these proofs of concepts have shown repeated anecdotal observations that the HAM material has a propensity for prolonged cooling times as well as wetting cavity detail more difficult than that of silica-based systems. With proof of concept established the next step is to quantitatively benchmark HAMs cooling and as-cast flow performance to verify the previous observations. To accomplish this, the following study aimed to evaluate the effects of casting fluidity and time to solidify on a known cross-section using a modified non-standard fluidity spiral. As with the previous proofs-of-concept, 3D-printed patternless silica molds were used for comparison.

Realizing the Full Benefits of 3D Printed Sand, Case Study on Combining Multiple Castings into a Single Casting (25-174)

Jason Bradley and Matt Sutterfield, Mueller Co., Chattanooga, TN; Dave Rittmeyer, Matthews Additive Technologies, Pittsburgh, PA

Knowing the total cost of ownership of projects, not just a single component, is key to taking advantage of the benefits 3D Printed Sand has to offer. We will discuss the path that was taken to leverage the benefits. We all have pain points or problems, and that is where this started. With

Schedule is subject to change.

9:15 – 10:15 a.m.

exposure to 3D printed sand and the AFS AM Division, ideas of how to improve our process began. After thorough investigation and multiple attempts, we were successful. We were able to combine 13 parts into a single casting, eliminate 6 weld joints, reduce leak paths from 10 to 3 and eliminate 18 machining operations.

9:30 – 10:15 a.m.

Casting Designers
and Buyers

Casting Source
Theater in the AFS HUB -
Booth 320

Session Chair:

Kim Phelan
American Foundry
Society, Inc.,
Schaumburg, IL

10 Ways to Reduce
Cost on Your Casting
Program (25-195)

Tom Kayser, Osco Industries, Portsmouth, OH

Take this list of ideas back to your company and apply them immediately. Metalcasting pro Tom Kayser from OSCO Industries explains these tips and how implementing even a few can be a game-changer.

10:30 – 11:30 a.m.

KEYNOTE

Room: A411-A412

Success is a Journey,
Not a Destination (25-168)

Dominique Dawes, 3-Time Olympic Gymnast, Olympic
Gold Medalist; First African American Gymnast to
Qualify for the Olympic Games



From Olympic Gold Medalist to Broadway, and from television analyst to President of the Women's Sports Foundation, Dominique Dawes continues on a path to inspire, motivate and lead. Dawes is best known for her tremendous success as an Olympic gymnast who competed in three Olympic Games (1992, 1996, and 2000), won four Olympic medals, and has a permanent place in the U.S. Olympic Committee Hall of Fame. Fans across the nation and around the world remember her as a member of the gold-medal-winning "Magnificent Seven" at the 1996 Atlanta Games, where she also won a bronze medal as she wowed the crowd with her stunning performance in the floor exercise, becoming the first female African American gymnast to win an individual medal. She also earned a bronze medal with the U.S. team in the 1992 Barcelona Games and left an imprint in the sports world with her "back-to-back" tumbling pass. Dominique made a surprising comeback with an anticlimactic end in the 2000 Sydney Games. Dawes presentation will focus on empowering audiences to embrace a team mentality, use failure as fuel, and believe in the power of their dreams.

11:45 a.m. – 1:15 p.m.

Room: A404-A405

Copper Division Luncheon
(Ticketed Event)

The Copper Division Luncheon will feature a speaker of general interest from the Atlanta area and the Copper Division will present their annual awards. The luncheon is open to everyone with an interest in Copper Alloys.

Schedule is subject to change.

Noon – 12:25 p.m.

Casting Source
Theater in the AFS HUB -
Booth 320

Sponsored Presentation:
The Impact of Air Pollution
Control System Design on
PM2.5 Emissions (25-198)

Brandon Billings P.E. BCEE, Nederman MikroPul,
Charlotte, NC

Brandon Billings shows you how a well-designed industrial dust collection system can drastically improve capture of PM2.5 particles. This presentation covers key design principles, system efficiency, and best practices for air pollution control to ensure regulatory compliance and environmental sustainability.

MIKROPUL
Nederman

12:30 – 1:15 p.m.

Casting Designers
and Buyers

Casting Source
Theater in the AFS HUB -
Booth 320

Session Chair:

Kim Phelan
American Foundry
Society, Inc.,
Schaumburg, IL

Predicting Cast Steel
Alloy Properties Based
on Composition and Heat
Treatment (25-122)

Raymond Monroe, Steel Founders Society of America,
Crystal Lake, IL

Steel casting producers make small heats of specialty alloys for custom products. Unlike bulk producers like steel mills, casting producers frequently make non-standard alloys in small quantities, which requires them to be able to formulate heat compositions and heat-treat cycles for non-standard alloys. Non-standard alloys may be required when certain alloying elements are in short supply or unavailable. To develop the methodology for estimating the tensile properties from a non-standard composition a new data base of standard steel cast alloys with composition and tensile properties can be used. This SFSA data set has over 30,000 entries. The data set and an analysis of reported formulas to estimate properties like ideal critical diameter, DI, carbon equivalent, CE, or estimated hardness in heat treatments or welds have been evaluated for their ability to predict properties for non-standard alloy heats.

1:30 – 2:45 p.m.

Casting Source
Theater in the AFS HUB -
Booth 320

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!

Schedule is subject to change.

1:30 – 3 p.m.

**Engineering & Smart
Manufacturing Division**

Room: A311

Session Chair:

 Zach Meadows
*Electric Controls
& Systems,
Birmingham, AL*

Journeying Through AI: Real-time Discoveries in Data Analytics with Industry 4.0 (25-086)

*Susan Bear, Grede Castings, Southfield, MI; Derek
Yesmunt, Norican Group, LaGrange, GA*

The presentation on Foundry Artificial Intelligence (AI) offers an in-depth exploration of a foundry industry leader, Grede, and their journey in adopting Industry 4.0 solutions across nine of their North American foundries. It underscores the challenges of managing up to 2,700 variables in a green sand foundry, highlighting how traditional spreadsheet methods fall short. With AI, we'll provide proof that past variables (a collection of over 30 years) can be better understood and controlled when digitizing that industry knowledge into actionable processes. This empowers both new and seasoned professionals with the precise knowledge needed to manage these processes effectively. Hence, combatting some of the industry challenges of labor shortages and upskilling employees.

Integrating Spatial Statistics and Digital Processing for Enhanced Surface Quality Classification in the Foundry Industry (25-108)

*Susan Bear, Grede Castings, Southfield, MI; Derek
Yesmunt, Norican Group, LaGrange, GA*

To ensure high quality castings, the ability to accurately quantify an as-cast surface's characteristics is of vital importance to the foundry industry. In addition, recent advancements in non-contact measurement systems have provided new opportunities to quantify a casting's surface beyond traditional roughness measurements. However, in the realm of non-contact measurement systems, there are numerous methodologies and metrics for evaluating and quantifying a surface. This paper investigates the critical surface features and approaches necessary for effective surface quality classification. More specifically, this study compares the accuracy of spatial statistical, modern digital processing techniques (e.g., convolution neural network) to classify as-cast surfaces. Through this comparison, this paper aims to develop a methodology to provide the most reliable results to industry. The findings will help guide the foundry industry in adopting the most appropriate techniques for surface quality assessment, ultimately enhancing product quality.

1:30 – 3:30 p.m.

The AFS Institute

Room: A316

Metalcasting Process Basics - Part Two (25-150)

*Patrick Kluesner, Grede Castings,
Waterford Township, MI*

This course provides a basic overview of the metalcasting process, tracking the path of a casting from quoting through shipping. Common metalcasting terms and highlights from the activities inside the major departments of a metalcasting production facility will be covered. Ideal for those new to the metalcasting industry.

Schedule is subject to change.

3 – 4 p.m.

Room: A411-A412

SFSA Cast in Steel Awards Ceremony

Cast in Steel 2025 competition challenges university students to use modern casting tools to creatively design and produce a functioning version of a sword for George Washington. Teams are to produce a replica of one of Washington's actual swords or to design one based on his known preferences and needs. One new element for the competition is the plan to document it as a made for TV series to be shown on a major streaming service. The requirements and evaluations will be as in the past, but the performance testing will be done in qualifying rounds to select the finalists for a Grand Finale. Teams will be competing in qualifying round that allows teams from the same schools to be in different rounds. The rounds will be seeded with teams from prior winners. A grand prize and 5 other awards will be presented during the session.

3:15 – 4:45 p.m.

**Melting Methods
& Materials Division**

Room: A314

Session Chair:

 Mike Mutton
*Larpen
Metallurgical
Service,
Ludington, MI*

PANEL: Channel Induction Furnace (25-176)

Best Practices for Inductor Rebuilds
Peter Aruanno, Inductotherm Corp, Sewell, NJ
Melting Out a Slug in a Channel Furnace
Johnny Hill, Martin Foundry, Dallas, TX
Inductor Change and Monitoring Inductor Life
Jordan Coward, AMERICAN Cast Iron Pipe Co., Birmingham, AL
**Molding Methods &
Materials Division**

Room: A313

Session Chair:

 Scott Giese
*University of
Northern Iowa,
Cedar Falls, IA*

 Michelle Ring
*Ductile Iron Society,
Carmel, IN*

Silver Anniversary Lecture: Converting from Shell to PUCB at Toyoda Autoloom Foundry: A Look Back at a Quarter Century of Market Factors that Transformed this Automotive Foundry (25-023)

Kelley Kerns, HA Group, Westmont, IL

Today, Toyota is recognized as one of the largest and foremost innovators in automotive mobility in the world. Toyoda's Autoloom Foundry was no stranger to evolution as it was established in 1926 to manufacture autolooms to weave cloth. For a century, it has continually diversified and transform to meet the demands of industrialization in Japan while out of respect to Toyota's founder Sakichi Toyoda, kept its original name. A quarter century ago, a plan to transform this automotive giant's gray iron engine plant from shell to a modern PUCB key core cellular manufacturing process was set in motion with a focus on a number of unique process innovations. We will look back at how several market conditions effected the Kaisen process and the ultimate adaptive evolution of this automotive casting leader.

Schedule is subject to change.

3:15 – 4:45 p.m.

Molding Methods & Materials Division

Room: A313

PANEL: Foundry Feud (25-064)**Moderators:**

Michelle Ring, Ductile Iron Society, Carmel, IN
Jay Morrison, Carpenter Brothers, Inc., Mequon, WI
Liam Miller, American Colloid Co., Hoffman Estates, IL

A follow up to the Jeopardy panel on “What is Green Sand Molding?” a “Foundry Feud” where two groups go on to see how foundries poll on some controversial topics, such as “What causes burn in defects in castings?”

World Foundry Organization (Cast Iron)

Room: A311

Session Chair:

Eric Nelson
Eric Nelson
Consulting LLC,
Mankato, MN

Lizeth Medina-Balliet
Neenah Foundry,
Neenah, WI

Thermal Properties of Ultrafine Spheroidal Graphite Iron Castings (25-025)

Yuuki Kuramoto and Yutaka Miyamoto, Ube Steel Co., Yamaguchi, Japan; Haruki Itofuji, I2C Technology Institute, Yamaguchi, Japan

The thermophysical properties in spheroidal graphite iron castings with different nodule size were surveyed after their matrixes were adjusted to ferritic structure. The nodule size in sample castings was changed using sand and permanent molds. Carbon and silicon contents (%) were adjusted from 3.40 to 3.70 and from 1.30 to 3.20 respectively. As the results, smaller nodule size was effective to give higher thermal conductivity for castings when Si content was lower. However, the effects of nodule size disappeared when Si content was higher like over 2.30 %. Thermal conductivity decreased when Si content increased.

Effects of Silicon in High-Cr White Cast Irons (25-147)

Jerrold Miller, Wear-Tek, Spokane, WA; John Tartaglia; Richard B. Gundlach, Element Materials Technology, Wixom, MI

To improve their performance, this research characterized the effects of Si on eutectic saturation, the ideal hardening temperature, hardenability, carbide fraction, and alloying element content in the constituents of high-Cr white cast irons. The influence of Si on % eutectic saturation was not clear. When analyzing carbide fraction, Si had a negligible effect in the 15%Cr series, but seemed to cause the 25%Cr series to develop less eutectic carbide, that is, become more hypoeutectic. Cr was richest in the eutectic carbides and leanest in the eutectic austenite matrix. Si was largely rejected from the eutectic carbides and richest in the eutectic austenite.

3:30 – 4:15 p.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry
Society, Inc.,
Schaumburg, IL

Practical Versus Pretty – What Surface Finish Do You Really Need, and How Do You Get There (25-196)

Dr. Sam Ramrattan, Western Michigan University, Kalamazoo, MI

Casting processes, alloys, and post-casting machining can all contribute to giving your casting a pristine surface finish, but not all castings really require aesthetic perfection. Sit and listen in as we talk about how to evaluate and specify surface finish needs for different types of casting components – and when beauty is and isn't worth the expense.

Schedule is subject to change.

5 – 6:30 p.m.

Room: Registration Hall A

Welcome Reception

(Ticketed Event)

AFS welcomes all attendees to kick off CastExpo 2025 with a reception in the convention center. The reception provides the opportunity to meet with customers, vendors and other attendees. Cocktails and hors d'oeuvres will be served.

6:30 – 8 p.m.

Room: A404-A405

Women in Metalcasting Dinner

(Ticketed Event)

This event is open to AFS members of Women in Metalcasting. It includes dinner, 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:



Schedule is subject to change.

Sunday, April 13, 2025

7 – 8 a.m.

Room: A302

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 a.m. – 5 p.m.

Georgia World Congress Center Lobby

Registration Open

Attendee bags sponsored by:



Lanyards sponsored by:



7:30 – 10:30 a.m.

Outside Technical and Management Sessions

Coffee Station by AFS Technical and Management Sessions

Coffee station sponsored by:



8 – 9 a.m.

Aluminum & Light Metals Division

Room: A312

Session Chair:

David Weiss
Vision Materials,
Manitowoc, WI

Role of Pouring Parameters on Mechanical Properties of Aluminum Alloys (25-069)

Scott Giese and Justine Radunzel, University of Northern Iowa, Cedar Falls, IA; Maria Alverio-Kapka, Carley Foundry Inc., Blaine, MN

Aluminum alloys are notorious in forming an oxide film during gravity filling, potentially becoming incorporated into the molten metal from turbulence. The research objective explored if pouring parameters of temperature and pouring height influence mechanical properties of aluminum alloys because of the oxide film. An experimental design considered these parameters for A356 and A206 alloys. Replicated castings were poured at a foundry using temperatures of 1350oF and 1425oF at pouring heights for 12” and 24”, respectively. A linear mixed model technique was used to determine the effect on strength properties and ductility. Pouring temperature was determined to be significant on mechanical properties, though only on certain properties depending on the alloy. Pouring height showed no significance of mechanical properties. Alloy chemistry was postulated to have a contribution on oxide formation with respect to mechanical properties.

The Role of Intermetallic Phases in Hot Tearing of Multicomponent Aluminum Alloys (25-109)

Jianyue Zhang and Alan A. Luo, The Ohio State University, Columbus, OH; Qigui Wang, General Motors, Warren, MI

Hot tearing is a major castability challenge in many multicomponent aluminum alloys especially those with large freeze ranges (solidification intervals). This study used a model alloy Al-15Zn-3Cu (all in weight percentage) with a large solidification interval to investigate the effects of intermetallic phases on its hot tearing tendency during permanent mold casting. Nickel additions of 0.5% to 2% were made to form Al₁₃Ni₂ and Al₇Cu₄Ni phases at high temperatures to affect the solidification behavior of the Al-15Zn-3Cu model alloy. CALPHAD (CALculation of PHASE Diagrams) modeling and casting experiments were performed to understand the solidification behavior and hot tearing mechanisms of these alloys. It was found that the hot tearing tendency can be greatly reduced with minor addition of 0.5% Ni. The role of high temperature intermetallic phases on the hot tearing tendency will be discussed.

8 – 9 a.m.

Cast Iron Division

Room: A311

Session Chair:David Gilson
SinterCast, Inc.,
Pewaukee, WI

Cast Iron Honorary Lecture: A Retrospective Tribute to Rick Gundlach – A Lover of Life, Family, and Research into Cast Metals (25-183)

Kathy Hayrynen, Aalberts Surface Technologies, Livonia, MI; John M. Tartaglia, Element Materials Technology, Wixom, MI

This presentation summarizes how Richard B. Gundlach lived his full personal and professional life. It will review Rick's family life, hobbies, education, employment and the research that he conducted in cast metals. After undergraduate and graduate education at two universities, Rick conducted pioneering research on cast molybdenum steels and cast irons at Climax Molybdenum Company. Subsequently, he co-founded Climax Research Services (CRS), an important engineering and testing company serving the automotive community; CRS is now a division of Element Materials Technology. Throughout his testing, failure analysis, and consulting career, Rick completed research and published numerous papers on the structure-property relationships in gray, ductile and white cast irons for structural and mining applications, much of it funded by AFS. He also helped implement cast aluminum 300 series alloys for car cylinder engines. Rick's two patents in high chromium white irons led to long-term licensing agreements with white iron foundries and utility companies.

Lost Foam Division

Room: A315

Session Chair:Jacob Belke
Mercury Marine,
Fond du Lac, WI

Bio-Based Foam Patterns for Lost Foam Casting (25-020)

Jacob Belke and Adam Kopper, Mercury Marine, Fond du Lac, WI; Tedd Sheets, Betz Industries, Grand Rapids, MI; Saumitra Bhargava, Clarksville, MD; Chris Mercy, LifeMade Products LLC, Belcamp, MD; Dan Mueller, ATLAS Molded Products, Fond du Lac, WI; Jonathan Godfrey, Jadex, Inc., Greer, SC

The lost foam casting process has used expanded polystyrene (EPS) as the pattern material since the inception of the process. EPS is derived from petroleum distillation which carries a heavy carbon footprint and health concerns from the decomposition products during casting. A novel molding bead technology has emerged that derives a polylactic acid (PLA) foam molding bead from sustainable domestic biological sources. Bio-based foam patterns were evaluated for its potential to replace EPS as a lost foam pattern material using laboratory testing and casting trials. The lab results showed the bio-based materials didn't produce hazardous air pollutants (HAPS) nor carcinogens. The casting trials successfully produced lost foam castings in both aluminum and gray cast iron without any modifications to the lost foam casting process.

Dimensional Data Analysis of Ferrous Lost Foam Castings (25-051)

Mark DeBruin, Skuld LLC, Piqua, OH; Elijah Jones, The University of Toledo, Sylvania, OH

This study reassesses tolerances in traditional lost foam ferrous castings. The tolerances found differ from the 1990s industry standards, tolerances of 0.005 in. (0.127 mm) for the first inch (25.4 mm) and 0.003 in. (0.0762 mm) per inch. Analyzing 1655 measurements from seven companies who were customers of a lost foam foundry in the early 2000s. The team found a consistent linear tolerance of 0.0041 inches per inch (0.0041 mm per mm) across all dimensions. This contradicts previous assumptions about differing linear tolerances for the first inch of castings versus the remainder of the dimensions. Larger parts showed better dimensional control than

expected. However, data for parts over 300mm was limited. These results serve as a valuable benchmark of lost foam tolerances in the past. These findings potentially expand the applicability of lost foam casting in manufacturing.

Melting Methods & Materials Division

Room: A314

Session Chair:John Gatewood
Cadillac Casting,
Cadillac, MI

Carbon Footprint Comparison- Electric vs. Cupola Melting (25-143)

David J. Kasun, ATD Engineering & Machine LLC, Au Gres, MI

A comparison is made between typical cupola melting vs. electric melting, for iron, with consideration to total Scope 1 and Scope 2 CO2 emissions for each, taking into account variations in electric grid emission factors per unit electricity. The pros and cons of each process, with some focus on the unique and beneficial recycling capabilities of the cupola are also discussed.

How to Get the Most Out of Your Refractory Castables (25-009)

Griffin Patterson, HWI a Member of Calderys, Pittsburgh, PA

Unlocking the full potential of refractory castables in foundries requires a deep understanding of their engineered properties and optimal usage practices. This work delves into best practices for controlling environmental and process conditions to enhance refractory properties, performance, and lifespan. Topics covered include the impact of ambient temperature control, curing practice, dryout procedures, stainless steel fiber additions, and proper mixing techniques. By sharing practical insights, this work aims to equip foundry professionals with the knowledge to improve the efficiency and durability of their refractory installations significantly.

Molding Methods & Materials Division

Room: A313

Session Chairs:Jeff Krause
HA Group,
Westmont, ILPeter Leblang
Betz Industries,
Grand Rapids, MI

Qualifying Sand Blends for Surface Quality in Iron Castings (25-117)

Dr. Sam Ramrattan, Western Michigan University, Kalamazoo, MI; Jay Morrison and Chris Lee, Carpenter Brothers, Inc., Mequon, WI

Chemically bonded sand molding technology remains an important part of metal casting technology because it permits precision sand castings. However, there is a lack of information available on chemically bonded sand blends. This paper relates the physical, mechanical, and thermo-mechanical properties of disc-shaped specimens made from silica sands and silica sand blended with ceramic granular media. American Foundry Society (AFS) standard disc-shaped no-bake core specimens were fabricated. This paper relates the physical and mechanical properties of disc-shaped specimens made from either silica or from silica and ceramic sand blends. Specimens were laboratory tested and evaluate in a gray iron casting trial. Testing included density, impact strength, permeability, abrasion, loss, and scratch hardness. All tests were accomplished according to AFS standards. With a blended sand it was possible to produce cores and molds having superior strength, and physical properties when compared to a round grain silica sand. The chemically bonded round grain silica sand provided a good surface finish but raised surface issues at the specimen/metal interface. Certain sand blends showed fewer casting surface issues but surface finish was not enhanced in the same iron casting trials.

8 – 9 a.m.

Molding Methods & Materials Division

Room: A313

Session Chairs:

Jeff Krause
HA Group,
Westmont, IL

Peter Leblang
Betz Industries,
Grand Rapids, MI

Advancement in Refractory Coatings Technology: Historical Insights and Future Directions (25-134)

Daniel Cygal, HA Group, Westmont, IL

Refractory coatings play a pivotal role in optimizing the surface quality of castings by creating a protective barrier between molten metal and the mold. Historically, the technology behind these coatings has undergone significant advancements, enhancing their ability to reduce thermal shock and mitigate surface defects such as veining, finning, metal penetration, burn-on, scabbing, and erosion. This review delves into the evolution of refractory coatings technology, tracing its development from early applications to contemporary innovations. It will examine how improvements in coating materials and methods have contributed to better casting quality and efficiency and will also consider future trends and emerging technologies that could shape the next generation of refractory coatings.

8 – 10 a.m.

The AFS Institute

Room: A316

Introduction to Quality and Process Improvement - Part One (25-151)

Ted Schorn, Enkei America, Inc., Columbus, IN

Introduction to Quality and Process Improvement is a concise summary of three AFS courses taught by Ted Schorn, one of the leading experts on foundry system quality in the industry. Ted will begin with the role of quality, providing context for the application of process quality control. He will then move through the critical application of problem solving and the use of quality tools before sharing his key enterprise improvement strategies. The two sessions will give an introduction and overview of the NEW QC certificate bundle by AFS and The Institute.

9 a.m. – 5 p.m.

Exhibit Hall A1-3

Exhibits Open

9:15 – 10:15 a.m.

Aluminum & Light Metals Division

Room: A312

Session Chair:

Jacob Belke
Mercury Marine,
Fond du Lac, WI

Development of a Self-regulating Permanent Mold Incorporating Phase Change Materials (PCMs) (25-074)

Cheolmin Ahn, Carl Soderhjelm, and Diran Apelian, University of California-Irvine, Irvine, CA

Dynamic casting processes such as permanent mold and die casting require the effective thermal management of molds to balance rapid heat absorption from the molten metal and immedi-

Schedule is subject to change.

ate heat recovery to the mold for subsequent casting cycles. Existing thermal technologies like direct flame and coolants have difficulty controlling heat transfer, resulting in thermomechanical fatigue of the mold due to excessive heating and cooling. Controlling the heat transfer in molds is paramount to ensuring the production of high-quality castings and reducing production cycle times. An innovative approach to controlling thermal gradients in molds involves incorporating phase change materials (PCMs) inside the molds. With their thermal energy storage capability and high latent heat, PCMs embedded in molds facilitate mold temperature self-regulation for heating and cooling as the PCM undergoes solid-liquid phase transformations during the casting process. In this paper, the feasibility and applicability of PCMs in dynamic casting processes will be discussed.

Prediction of Local Tensile Properties in an Aluminum Giga Casting (25-103)

Qigui Wang, Liang Wang, and Jason Coryell, General Motors, Warren, MI

Lightweighting in the automotive industry has driven the emergence of large aluminum castings for body structures, often referred to as “giga castings”. The increasing use of aluminum giga castings in critical structures requires improved quality, with more reliable and quantifiable performance in both safety and durability. Aluminum casting processing is very complex and involves many competing mechanisms, multi-physics phenomena, and potentially large uncertainties. One of the most effective ways to optimize the design and manufacturing processes of aluminum giga castings to achieve the desirable mechanical properties is through the development and exploitation of robust and accurate multi-scale computational material models. This paper reports an integrated computational materials engineering (ICME) approach for through-process modeling of local tensile properties of an aluminum giga casting using GM Virtual Cast Component Development (VCCD) tools.

Engineering & Smart Manufacturing Division

Room: A311

Session Chair:

Jim Wenson
Sinto America,
Grand Ledge, MI

The 6C Framework to Build a Connected Factory (25-052)

David Blondheim, Jr., Mercury Marine, Fond du Lac, WI

Embracing Industry 4.0 (I4.0) relies on the crucial role of data collection and utilization. The benefits of I4.0 drive operational excellence in connected factories by elevating productivity, uptime, and quality. While the rationale of Industry 4.0 adoption is widely acknowledged, the challenge lies in the practical implementation of a connected factory. The resolution of both technical and human challenges is required for successful adoption. The proposed 6C Framework is structured around six key components to solve these challenges: Criteria, Connect, Communicate, Collect, Consume, and Culture. Understanding this high-level framework is foundational, as it guides countless strategic management decisions when implementing data collection. This framework is deconstructed into tactical aspects to ensure proper technical and cultural questions are considered throughout data collection process. The 6C Framework addresses the human and technical aspects of data collection to aid in implementing I4.0.

Schedule is subject to change.

9:15 – 10:15 a.m.

**Melting Methods
& Materials Division**

Room: A314

Session Chair:Lucas Dix
ProFound Alloys,
Birmingham, AL**Toward a Quantitative
Model of Recarburizer
Dissolution for Ferrous
Foundries (25-144)**Robert Umpleby, Miller and Company LLC,
Rosemont, IL

It is shown that a shrinking particle model can be incorporated into the classic diffusion layer model to generate the dissolution curve for a recarburizer. The method utilizes a transformation of the mass distribution of particle size into a number distribution, thereby allowing the initial surface area of the recarburizer to be estimated. The shrinking particle model then permits the continuously changing particle size distribution to be taken into account explicitly throughout the dissolution process. The applicability of the method is demonstrated for a hypothetical addition of graphite for a ductile iron. The results are consistent with published experimental data for graphitic recarburizers.

**Robust Charge-mix
Optimization for Cast
Iron Foundry (25-070)**Deepak Chowdhary, Anirudh Chowdhary, Rahul V,
Abhishankar Kumar, and Nilanjan Banerjee, MPM In-
fosoft Pvt. Ltd., Nadu, India; Nabil M, Indian Institute
of Technology Tirupati, Pradesh, India

Sand compactability is critical in casting, influencing mold quality and defect occurrence in the final cast samples. Maintaining optimal compactability is essential, as deviations can lead to defects like blowholes, scabs, sand inclusion, or sand fusion. This study introduces a machine learning (ML) approach to predict the lab compactability based on the return sand characteristics, environmental conditions, water addition, seasonality, and additives dosage. The predictive model is being utilized to prescribe optimal water addition to achieve desired/optimal compactability. The predictive and prescriptive model utilizes real-time data obtained from IIOT sensors, SCADA/PLC for prescribing batch to batch water addition into the mixer. The proposed algorithm is validated on the foundry data which produced castings for automotive industry having sand to metal ratio varying from 4.6-9.5. Results show a good agreement between the predicted and actual lab compactability with a root mean square error of 0.82%.

**Molding Methods &
Materials Division**

Room: A313

Session Chairs:Pete Gravunder
Badger Mining Corp.,
Berlin, WIJeff Krause
HA Group,
Westmont, IL**Optimizing Clay
Addition to Reduce
Variability in Green Sand
Compactability, Moisture
and Strength (25-042)**Paul David Paulsen, Furness-Newburge, Inc.,
Versailles, KY

Green sand strength is provided by the bonding strength produced by water activation of bentonite clay. Maintaining the proper proportion of clay, moisture, and other green sand components is critical for casting quality and made challenging since material losses during each casting cycle are highly variable. If compactabilities of different samples match, then a comparison of the samples' moisture and strength can reveal green sand composition changes. Control strategies are applied in automated production systems to adjust bond addition to minimize variations in moisture. Application of optical moisture sensor measurement and understanding of the fundamental relationships between clay, moisture, compactability, and strength form the basis of this control strategy. Clay addition optimization resulted in improved compactability control and reduced variability in moisture and strength.

Schedule is subject to change.

**Digital and Agile Moisture,
VOC, and LOI Testing Using
an Induction Heating
Technology (2025-115)**Zachary Tay, Dr. Sam Ramrattan, and Robert Makin,
Western Michigan University, Kalamazoo, MI

The foundry industry depends upon measurements of moisture content (MC), volatile organic compounds (VOC), and loss-on-ignition (LOI) testing to manage sand systems. At the AFS Casting Congress 2024 a "Fast MC, VOC, and LOI Test" capable of achieving digital data was revealed. That technology used magnetron (M) and infrared (IR) technologies that is faster than conventional laboratory approaches for running all three tests independently. This study identifies the use of a singular heating technology to achieve rapid MC, VOC, and LOI testing in a single unit. A prototype tester has been developed using induction heating technology capable of completing all three tests in series. The testing technology allows for a short exposure time to heat a foundry sand sample and provides digital data for the three tests. The actual sample test time is comparable to an automated LOI test and is considerably faster than either the muffle furnace or microwave furnace. This study will confirm there is no significant difference between the AFS Standard MC, VOC, and LOI tests and the new induction testing device.

Women in Metalcasting

Room: A315

Session Chair:Maddie Wilson-Smith
Pittsburgh Foundry
& Machine,
Pittsburgh, PA**Empowering Women
and Cultivating Inclusive
Leadership in Metalcasting
(25-178)**Lisa Ryan, CSP, Founder and Chief Appreciation
Strategist, Grategy, North Royalton, OH

The metal casting industry faces unique challenges, from addressing workforce diversity to meeting the evolving demands of a dynamic marketplace. Building a workplace culture that empowers women, fosters inclusivity, and develops strong leaders is essential for advancing the industry and ensuring long-term success. This program will provide actionable strategies to help women in metal casting thrive in their careers while supporting organizations in cultivating a culture of leadership and inclusion. By focusing on professional development, work-life integration, and practical solutions, attendees will gain the tools to create meaningful change both personally and professionally.

Thanks to our Sponsors:



Schedule is subject to change.

9:30 – 10:30 a.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry Society, Inc.,
Schaumburg, IL

When to Convert a Weldment to a Casting - Based on the AFS paper, The Investment Casting Conversion Process: An Industry Consensus (25-187)

Vasko Popovski, Ransom & Randolph, Maumee, OH

Your company may be sitting on a gold mine of cost-savings opportunity. Many parts that are currently fabricated weldments or machined from ingot could have more features and properties and cost less if they were castings. Our guest expert offers guidance to ensure that the designer and buyer avoid common barriers enroute to a smooth, profitable transition to a casting conversion.

10:30 – 11:30 a.m.

KEYNOTE

Room: A411-A412

Principles for Leading High-Performance Teams (25-169)

Scott Moore, Expert on Building and Leading "No-Fail" Teams and United States Navy SEAL Rear Admiral (ret.)



Having served 30 years as a SEAL leader, retired Rear Admiral Scott Moore is a master in organizational leadership and teambuilding. He served in every leadership position in the SEAL teams, including the former commander of the Naval Special Warfare Development Group, and closed out his career as the number two leader in the entire SEAL organization. He led the military's elite forces through more than 2,000 of our nation's most extreme, high-stakes missions and was deployed on SEAL team operations across the globe. He understands the importance of leadership and cohesiveness like few others can, and his experience runs the gamut from leading small groups to large-scale tactical planning. From the mountains of Afghanistan to briefings in the Oval Office, Moore is the man our leaders trusted when failure was not an option. Moore will share stories of teamwork in life-and-death circumstances and insights on recruiting, training, and equipping teams that exceed expectations.

11:45 a.m. – 1:15 p.m.

Room: A404-A405

Volunteer Leadership Awards Luncheon

(Ticketed event)

Join us for a fun, fast-paced awards luncheon. Catch up with friends while AFS officers welcome four new board members. The AFS Technical and Management Division chairs will also present key national and divisional awards including the presentation of the Scientific Merit and Service Citation awards.

Schedule is subject to change.

Noon – 12:25 p.m.

Casting Source Theater in the AFS HUB - Booth 320

Sponsored Presentation: Lake Sand - Chemistry, Quality and Consistency for Improved Casting Processes (25-199)

Dorothy Havlin, The Nugent Sand Company, Muskegon, MI

Lake sand is a complex, sophisticated mixture of naturally occurring minerals that provide advantages in mold and core making processes. Strict adherence to processing, quality control and consistency in supply result in casting defect reductions and net cost savings.



NUGENT
SAND

12:40 – 2 p.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry Society, Inc.,
Schaumburg, IL

How to Get the Best Casting! A Foundry-End User Panel Discussion (25-202)

From Foundries:

Philippe Dubuc, Fusium, Chicoutimi, QC, Canada
Rick Peterson, Pier Foundry & Pattern, Saint Paul, MN

From Manufacturers/Casting Buyers:

Tim Dorn, Amerequip, Menasha, WI
Paul Boone, Cadillac/General Motors, Saginaw, MI

Casting Source magazine's editor moderates a lively conversation featuring examples of true innovation, problem-solving, and collaboration resulting in castings that exceeded expectations.

Schedule is subject to change.

1:30 – 3 p.m.

Aluminum &
Light Metals Division

Room: A312

Session Chair:

Carlos Esparza
LeSueur Incorporated,
Le Sueur, MN

Silver Anniversary Lecture: A Review Article on Effect of Mg and Trace Elements on the Solidification and Dissolution of Al₂Cu Phase in 319-type Alloys (25-148)

Herbert Doty, General Motors, Warren, MI; Ehab Samuel, National Research Council of Canada, QC, Canada; Mohamed Abdelaziz, PhD, Universite Francise d'Egypte, Cairo, Egypt; Hany Ammar; Fawzy H. Samuel; Agnes Samuel, Universite du Quebec a Chicoutimi, QC, Canada

The review summarizes the main findings on 319.1 aluminum alloy obtained by the present authors over a period of 10 years. The increased number of modified silicon particles serve as nucleation sites for precipitation of very fine individual Al₂Cu particles. Grain refining plays an important role in reducing the degree of the Al₂Cu segregation. Increasing the magnesium content results in the transformation of some of the Al₅FeSi into Al₈Mg₃FeSi₆, as well as precipitation of Al₅Mg₈Cu₂Si₆ in the form of branched crystals or ultra-fine eutectic, growing out of Al₂Cu particles during the final solidification of the complex eutectic reaction that takes place in the final stages of solidification. Increasing the Mg content gradually reduces the temperature of the incipient melting. The presence of traces of Fe and Ni in the base alloy and their interactions with the Mg and Cu forming insoluble compounds lead to increasing the temperature of incipient melting.

Effect of Section Size and Cooling Rate Variation in the Microstructure of Al-Ce-Ni-Graphite Composites (25-102)

Kaustubh Rane, Swaroop Behera, Mehran Zare, Alec Buhler, Luke Wilson, Benjamin Church, and Pradeep Rohatgi, University of Wisconsin-Milwaukee, Milwaukee, WI; David Weiss, Vision Materials, Manitowoc, WI

The effect of cooling rate variation on the microstructure and properties of Al-12Ce-2.5Mg alloy reinforced with Ni-Graphite has been presented in this study. The composite melt prepared by stir mixing was cast in a preheated permanent step mold wherein the section size varied from 3.7 mm to 30 mm. The distribution of graphite, primary and eutectic phases, hardness, and density have been studied as a function of section size and cooling rate. The volume percentages of intermetallic phases changed with an increase in section size, and the hardness decreased with an increase in section size, suggesting that other mechanical properties are a function of section size and cooling rate. The results were compared with those of the Al-12Ce-2.5Mg base alloy cast using the same process to understand the effects of Ni-Graphite additions on the microstructure and properties of Al-12Ce-2.5Mg alloy in different sizes.

Cast Iron Division

Room: A311

Session Chair:

Brad Steinkamp
Charter Dura-Bar,
Crystal Lake, ILBrandon Reneau
Caterpillar, Inc.
Dunfermline, IL

Effect of Ceramic Aggregate on Cast Iron Mechanical Properties (25-067)

Scott Giese and Justine Radunzel, University of Northern Iowa, Cedar Falls, IA

Because of the recently passed OSHA Silica Rule, many iron foundries have or are considering changing from silica sand to a ceramic aggregate to alleviate the issue. The AFS Cast Iron Division initiated a research project to understand the impact of the change in the microstructure and associated mechanical properties on cast iron that might accompany the use of these ceramic molding media. Funded by AFS, a research project was performed to assess the mechanical properties of class 40 gray iron and 80-55-06 ductile iron castings using an experimental casting matrix of the three aggregates with two sand to metal ratios. Results indicated that ceramic aggregates have a noticeable influence on mechanical properties of gray and ductile iron but sand to metal ratio has an influence on the degree of properties variation.

Understanding the Effects of Boron on the Microstructure and Mechanical Properties of Pearlitic Ductile Iron (25-089)

Colleen Lehrer, Laura Bartlett, and Simon Lekakh, Missouri University of Science & Technology, Rolla, MO

Trace quantities of boron affect the microstructure and mechanical properties of spheroidal graphite irons (SGI). To quantify these effects, a pearlitic SGI with controlled boron residuals from 12 to 96 ppm was cast into no-bake silica molds featuring step blocks with 5, 15, 30, and 50 mm thicknesses, chill wedges, and integrated thermal analysis cups. Tensile properties were determined via modified Keel blocks. Solidification simulations predicted cooling rates of resulting castings. Boron additions up to 39 ppm decreased the tensile and yield strengths of the alloy, as well as reduced the pearlite fraction and hardness for all section thicknesses. Additions up to 39 ppm decreased the temperature at the end of solidification and raised eutectoid temperatures of interest. The interacting effects of boron and cooling rate were prominent in the 5 mm section, displaying increased ferrite content, nodule number density, and decreased nodularity at all levels of boron.

A Novel Technique for Improved Measurement of Graphite and Inclusions in Ductile Iron Contaminated by Boron (25-079)

Chase Schroeder, Laura Bartlett, Simon Lekakh, and Colleen Lehrer, Missouri University of Science & Technology, Rolla, MO

The highly heterogeneous microstructure of ductile iron in casting includes graphite particles, non-metallic inclusions, microporosity, and other features, such as carbides distributed in the ferrite/pearlite matrix. Determination and comprehensive quantification are both practically important and extremely challenging. The microstructure of ductile irons with different boron concentrations in section sizes from 5 to 50 mm were used for comparative studies. An advanced methodology based on an automated SEM/EDX analysis was developed and compared to the standard optical imaging method. In addition to back scattered electron contrast, sensitive to atomic number, a novel methodology added EDX data to identify and classify the multiple structural features at micron resolution thresholding. To quantify the shape of individual graphite particles, several algorithms including ferret diameter, actual, and eight-based chord raster perimeters were compared. The advantages of this novel methodology were statistically proven.

1:30 – 3 p.m.

Engineering & Smart Manufacturing Division

Room: A314

Session Chair:

Francois Audet
Foundry Solutions
Metallurgical Services,
QC, Canada

Building Resiliency in the Casting Industry Using Composite, Industry-wide 4.0 Assessment Lessons Learned and Best Practices (25-017)

Todd Hutcheson, University of Northern Iowa,
Cedar Falls, IA

Domestic foundries are challenged to improve their bottom line to ensure an ability to meet baseline/surge demand for cast parts. Accelerated integration of new technologies like integrated sensors, autonomous robots, additive manufacturing, augmented reality, simulation/digital twin models and large real-time dataset analysis is allowing casting companies to continue to meet demand. Consolidating industry-wide data gathered during DLA project outreach activities has provided information on condition of Industry 4.0 technology best practices/lessons learned implementation. Value is obtained by applying these lessons learned in each business, and additional value is gained by viewing the industry as a whole in driving focus towards improving supply chain availability and agility.

AI-Driven Casting Simulation for Faster Design Developments (25-065)

Milan Raval, Altair Engineering, Troy, MI

Casting Simulation is the most amazing innovation for casting experts. When it was introduced in the early '70s, industry people felt relief as they were facing challenges like cost, trial and error methodology, and time consumption. Simulation technology solved most of these problems, but additional challenges arose. Challenges like performing multiple casting simulations by design engineers for decision-making, and simulations that can take days to run on large models like Megacasting. In both cases computational time became a bigger challenge. The way the traditional trial and error method was replaced by casting simulation, here we will be talking about leveling up with the fundamentals of AI. Casting simulations that could take days to compute, AI integration can predict in seconds or minutes.

Lost Foam Division

Room: A315

Session Chair:

Mark DeBruin
Skuld LLC,
Piqua, OH

Preliminary Roughness and Dimensional Control Data for Additive Manufacturing Evaporative Casting Process (25-054)

Sarah Jordan and Mark DeBruin, Skuld LLC,
Piqua, OH

Additive Manufacturing Evaporative Casting (AMEC) is a new patent pending process that merges polymer extrusion 3D printing with lost foam investment casting. The key question for designers to use any novel manufacturing process is what is the resulting geometric output. This study beings to address those questions for AMEC by looking at the dimension and surface metrology data from AMEC A356 aluminum coupons. Thus far the data indicates that AMEC has worse dimensional control than standard lost foam but superior to sand casting. The resulting

surface roughness of the casting is highly dependent on the 3D print's starting surface. Typical roughness is higher than lost foam and traditional sand casting but superior to typical sand printing.

Optimizing 3D Printable Filaments for Printed Expendable Patterns in Lost Foam Casting (25-045)

Jacob Belke and Sean Frank, Mercury Marine,
Fond du Lac, WI

The lost foam casting process offers significant advantages, including the elimination of parting lines and cores, leading to reduced machining and material waste. However, the traditional method of creating foam patterns involves expensive and time-consuming tooling, which limits the process's flexibility and cost-effectiveness, particularly for low-volume production and rapid prototyping. 3D printing emerges as a transformative solution to these challenges, allowing for the direct fabrication of complex lost foam patterns without the need for traditional tooling. Despite these advancements, a significant knowledge gap remains in the selection of appropriate materials for 3D printed patterns. Sixteen 3D printable materials were assessed for use as expendable printed patterns using thermogravimetric analysis (TGA) and casting trials. Variants of polyethylene performed the best in TGA and casting trials, but face printing challenges. High impact polystyrene (HIPS) was designated the best overall and shown to be improved further with plasticizers and foaming agents.

Molding Methods & Materials Division

Room: A313

Session Chairs:

Liam Miller
American Colloid Co.,
Hoffman Estates, IL

Sairam Ravi
Atek Metal Technologies,
New Hampton, IA

Time Evolution of Hot Permeability and its Relation to Darcy's Number in Foundry Sand Systems (24-114)

Robert Makin, Dr. Sam Ramrattan, and Zachary Tay,
Western Michigan University, Kalamazoo, MI

A hot permeability test was designed to provide time series data to examine venting characteristics in foundry sands at an elevated temperature. This was achieved by modifying the standard AFS Mold Quality Indicator (MQI) permeability tester and applying induction technology to create a hot surface tip which is constantly in contact with the sand specimen. This technique can be used for both green and chemically bonded sand specimens. The focus of this study was to investigate any potential deviations in permeability number of foundry sand specimens at ambient and elevated temperatures to form a correlation within the mold-metal interface and venting characteristics in foundry sand. For each sand system in this study, the time evolution of the permeability number was measured from ambient to 500 °C. From this time series data, the rate of change, and change in permeability number was captured by calculating a permeability index. Furthermore, Darcy's number was calculated using the permeability number and characteristic length of the sand system. This results from these test show that as the green sand moisture (compactability) condensation layer is driven back in the specimen due to heat transfer, the permeability number changes and the rate of change can be determined. Correspondingly, hot permeability rates of change are shown among various chemically bonded sand binder specimens at various binder level. The finding of this study offers an enhanced understanding of the gas flow venting in foundry sand systems. The measured time series data at elevated temperature can provide beneficial boundary conditions to casting solidification simulation.

1:30 – 3 p.m.

Molding Methods & Materials Division

Room: A313

Session Chairs:

Liam Miller
*American Colloid Co.,
Hoffman Estates, IL*

Sairam Ravi
*Atek Metal Technologies,
New Hampton, IA*

Thermo-mechanical Properties of Shell Resin Coated Sands to Identify Cure Parameters (24-116)

*Dr. Sam Ramrattan, Robert Makin, and Zachary Tay,
Western Michigan University, Kalamazoo, MI*

Shell molding technology remains an important part of metal casting technology because it permits precision sand castings. As the ever-growing need to produce complex castings increases, so does the complexity of cores and molds. In order to accomplish near-net-shape casting with minimal defects, it is necessary to understand the thermal-mechanical effect suffered by the cured cores and molds at the superheat temperature for an alloy. Aeration filling using free flowing resin coated shell sand offers a superior means to fill a core box. Aeration technology makes it possible to sand fill complex shapes, deep pockets, and thin sections in tooling that heretofore were not possible by conventional gravity or high-pressure blow. However, a conundrum remains in determination of the optimal shell cure temperature. The foundry industry has generally used a visual criterion based on a cure color chart. This study points out the issues caused when using a subjective methodology. This research study examines the effects of tight thermal curing parameters on both silica and ceramic shell sand systems. Laboratory testing equipment was utilized as opposed to the more laborious foundry casting trials. Productivity and quality issues such as shakeout and dimensional accuracy was used to determine optimal cure. Aeration filled shell disc-shaped core specimens were fabricated and testing included scratch hardness, retained strength, and thermal distortion. With a shell aeration sand filling system, it is possible to produce cores and molds having superior abrasion resistance, strength, and thermal stability especially with a ceramic sand.

1:30 – 4:30 p.m.

The AFS Institute

Room: A316

Introduction to Quality and Process Improvement - Part Two (25-152)

Ted Schorn, Enkei America, Inc., Columbus, IN

Introduction to Quality and Process Improvement is a concise summary of three AFS courses taught by Ted Schorn, one of the leading experts on foundry system quality in the industry. Ted will begin with the role of quality, providing context for the application of process quality control. He will then move through the critical application of problem solving and the use of quality tools before sharing his key enterprise improvement strategies. The two sessions will give an introduction and overview of the NEW QC certificate bundle by AFS and The Institute.

2:15 – 3:15 p.m.

Casting Designers and Buyers

Casting Source Theater
in the AFS HUB - Booth
320

Session Chair:

Kim Phelan
*American Foundry
Society, Inc.,
Schaumburg, IL*

Update on AFS Project for Digitizing Various Knowledge Platforms (25-010)

*Brian Began, American Foundry Society, Inc.,
Schaumburg, IL*

This presentation will focus on AFS's efforts to improve digital accessibility and operability of its various knowledge platforms. This digitization entails improving navigation and functionality/searchability between various platforms including the digital library, AFS Onlive webinars, a new, yet-to-be-developed digital publication platform, CADS (Casting Alloy Database Search), and others. These efforts will also make AFS platforms more mobile-friendly and include creating new reference instructional/educational

3:15 – 3:45 p.m.

Casting Designers and Buyers

Casting Source Theater
in the AFS HUB - Booth
320

Session Chair:

Kim Phelan
*American Foundry
Society, Inc.,
Schaumburg, IL*

2024 Casting of the Year Case Study (25-204)

*Matthew Pettus and Karl Warsinski, St. Marys
Foundry Ltd., St. Marys, OH*

Members from the foundry engineering team at St Marys pull back the curtain on how they produced a 6,600-lb. frame for a hard-working frac pump that put their casting and coremaking skills to the test. Hear the specs, the challenges, and the solutions they achieved through collaboration with their oil-and-gas industry customer.

3:15 – 4:45 p.m.

Additive Manufacturing Division

Room: A313

Session Chairs:

Jerry Thiel
*Precision Casting
Technologies, Dysart, IA*

Dave Rittmeyer
*Matthews Additive
Technologies, Pittsburgh, PA*

Advanced AM & 3D Printed Sand Mold Technologies to Support Casting Supply (25-034)

Greg Colvin, Honeywell Aerospace, Phoenix, AZ

US casting supply has limited responsiveness for many high integrity hardware especially for sporadic low quantity demand military 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.

3:15 – 4:45 p.m.

Additive Manufacturing Division

Room: A313

Session Chairs:

Jerry Thiel
Precision Casting Technologies,
Dysart, IA

Dave Rittmeyer
Matthews Additive Technologies,
Pittsburgh, PA

Printed Sand Equipment Options and New Innovations (25-131)

Greg Colvin, Honeywell Aerospace, Phoenix, AZ

US casting supply has limited responsiveness for many high integrity hardware especially for sporadic low quantity demand military 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 new 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 for will be discussed relative to the different printed sand equipment casting quality results. The different equipment types offer options in printed sand binder compositions, differences in surface finish of printed sand and variation in ease of sand removal post-casting. It is important for the foundry professional to understand the different equipment performance outcomes to optimize the characteristics of the printed sand core/mold sections relative to the casting and customer requirements. In summary, this session will help the casting industry practitioner improve their leverage of printed sand technologies to support their casting processes and applications.

Printed Sand Best Practices Driven Research using AFS Test Casting (25-141)

Jiten Shah, Product Development & Analysis LLC,
Naperville, IL; Greg Colvin, Honeywell Aerospace,
Phoenix, AZ

The results from America Makes / AFRL funded and Honeywell led research focused on making improvements in the complex aluminum sand castings surface finish and dimensional tolerances using 3D printed cores and molds, 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 military castings poured at Ohio Aluminum and Chicago Magnesium foundries. This is a two year research project and results till-date will be presented. The knowledge generated will be incorporated into the future AFS courses and training courses including revised pocket book on 3D printed sand.

Cast Iron Division

Room: A311

Session Chair:

Kramer Pursell
Metal Technologies
Auburn Castings,
Columbia City, IN

Mike Riabov
Elkem Silicon Products,
Appleton, WI

Effects of In-Mold Additions of Al, Ca, Ce, Sr, or Ti on Austenite Grain Morphology and Eutectic Cell Size of a Hypoeutectic Gray Cast Iron (25-055)

Evan Carter, Jingjing Qing, and Mingzhi Xu, Georgia Southern University, Statesboro, GA

This work is a study of the effects that different in-mold additions have on the morphology of austenite and the eutectic cell structure in grey iron. The experiment utilizes a novel heat-treatment process that revealed the grain boundaries of austenite at room temperature in low-alloy cast iron. The in-mold additions studied were Al, Ca, Ce (mischmetal), Sr, and Ti. Each was poured during the same heat of a hypoeutectic grey iron with a high-purity silicon in-ladle addition. The austenite grain boundaries and the eutectic cell structure were revealed successfully. The results indicated that the Al addition sample had the least refined structure of austenite, and the Sr sample has the most refined austenite. Additionally, there is evidence to suggest a correlation between a larger equiaxed zone size and larger eutectic cells in the equiaxed zone.

Schedule is subject to change.

Machinability of Solution Strengthened Ferritic Ductile Iron (25-145)

David Labyak, Michigan Tech University,
Houghton, MI

Solution strengthened ferritic ductile iron is a grade of ductile iron where the ferritic matrix is solution strengthened by silicon. The addition of silicon results in a combination of higher mechanical properties and higher elongations as compared to standard grades of ferritic ductile iron. Some research suggests silicon solution strengthened ferritic ductile iron (SSFDI) grades can result in a 10-50% machining cost savings compared to conventional grades. Although these grades can result in lower machining costs, some grades have an increased base cost in the raw material form. For example, 500-14 SSFDI and 600-10 SSFDI ductile iron grades can be 1% to 4% higher in base casting costs over comparable conventional grades. With the lack of machining knowledge has impeded the growth of 500-14 SSFDI and 600-10 SSFDI in North American markets, due to machining costs being kept at conventional grade speeds and feeds.

Some Factors Affecting the Hot Workability of Ductile Iron (25-099)

David Sponseller, OMNI Metals Laboratory, Inc.,
Ann Arbor, MI

The hot workability of ductile Iron has been studied in the range 2.08 - 4.36 pct C, using 10-lb ingots. The highest workability was observed at low carbon levels. In a preliminary experiment, an ingot containing 3.24 pct C was successfully rolled at 1850 F to 3/64 inch strip. Other ingots containing approximately 2.25 pct C developed no cracks when rolled without reheats from 1900 F to just below 1500 F. Hypereutectic ingots cracked extensively during rolling. Workability was considerably better at 1950 F than at 1850 F, and with lighter reductions (3-5 pct per pass) than with heavier (10-15 pct per pass). Variations in Si concentration from 0.63 to 1.45 pct did not significantly affect workability. Hot workability correlated rather well with ductility in hot tensile tests at the working temperature, a hot elongation of 50% minimum indicating good workability at that temperature.

Steel Division

Room: A312

Session Chairs:

Koushik Balasubramanian
Missouri University of
Science & Technology,
Rolla, MO

Maximizing Casting Yield for Common Industry Steels by Comparing Outcomes of Experiments that Vary Riser Size, Shape, Material, Sleeve Thickness and Breaker Core Aperture (25-011)

Joshua Gammariello, Foseco, Chattanooga, TN

Maximizing casting yield is essential for a steel foundry's economic performance. In this paper, the authors will walk through a design of experiments via simulation and real-world testing which provides information that helps steel foundries make complex risering decisions. It will evaluate how variables such as sleeve material type, sleeve wall thickness, breaker core opening, riser diameter, riser height, and riser shape affect yield, casting porosity, and riser safety margin. Based on the conclusions found in this paper, foundries may be able to increase the yield of their casting by refining their sleeve utilization practice, resulting in equally performing risers with smaller diameters, shorter heights, or a combination of both.

Schedule is subject to change.

3:15 – 4:45 p.m.

Steel Division

Room: A312

Session Chairs:

Koushik Balasubramanian
Missouri University of
Science & Technology,
Rolla, MO

Convective Current Manipulation in Steel Castings (25-050)

Mark Thompson and Soren Andersen, MAGMA Foundry Technologies, Inc., Schaumburg, IL

Two common defects in steel foundries are shrinkage and macro-segregation. Depending on the alloy, the effects of macro segregation may be critical to mechanical properties and composition requirements. Both macro segregation and shrinkage indications can be affected by convective currents in large steel castings. These currents can be accurately simulated to understand the impact metal flows during solidification have on casting quality. In this study, convection and its effects on shrinkage indications and macro-segregation in large steel castings will be investigated. A large steel casting will be reviewed and simulated using advanced casting process simulation software. This process will allow for physical casting properties to be cross analyzed with simulation results. Design alterations of risers, chills, and the casting will be implemented to allow for castings with larger section sizes and create a more constant element dispersion through the solidified part.

World Foundry Organization (Aluminum)

Room: A315

Session Chairs:

Carl Soderhjelm
Advanced Casting
Research Center,
Irvine, CA

Secondary Phase Increases the Elastic Modulus of a Cast Aluminum-Cerium Alloy (25-179)

David Weiss, Vision Materials, Manitowoc, WI

Alloying in metal castings is one of the principal methods of strengthening an alloy for various structural and functional applications, but very rarely does it modify an alloy's elastic modulus. We report a methodology of combining alloying elements to form a multi-component, high symmetry, rhombicuboctahedron (RCO) phase that was discovered to enhance the elastic modulus of a cast aluminum alloy to 91.5 ± 7.4 GPa. Flux grown single crystals of the RCO phase were used to enhance understanding of the structure and mechanical properties of the phase. The pure RCO phase's structure and site occupancies were co-refined using x-ray and neutron diffraction. Dynamic nanomechanical testing of the cast alloy shows the primary RCO phase has a high, relatively isotropic, elastic modulus. This RCO containing aluminum alloy is found to have a specific modulus that exceeds that of the leading Al, Mg, Steel, and Ti alloys. For casting designs that are stiffness driven, this alloy has important implications for cast lightweight products.

Temperature Losses in Cups of Tilt-Poured Permanent Molds (25-016)

David Levasseur, Gheorge Marin, and Franco Chiesa, Centre de Metallurgie du Quebec, QC, Canada

Tilt-poured permanent mold casting is a process where a cast-iron or steel mold is filled by tilting it from the horizontal to the vertical position to reduce the turbulence which takes place when the mold is "gravity filled" in a vertical position. The liquid aluminum is first poured into a cup that will deliver the liquid metal to the mold as the cup-mold assembly is tilted; normally, the cup is generally emptied when a tilt angle of 45 degrees is reached; the mold continues its motion until it reaches the vertical position which is kept until the casting and the gating are fully solidified. The temperature of the metal poured into the mold is less than that of the metal poured in the cup by an amount that we shall call the temperature loss in the cup. This loss de-

pends on factors such as the amount of metal poured, the tilt speed and the number of cycles per hour. It is rarely considered when modeling the thermal history of the process, if not by at times, by subtracting several degrees to the temperature of the metal poured into the cup. The purpose of this paper is to evaluate these temperature losses via thermal modeling; the accuracy of these predictions will be tested on 2 castings involving widely different conditions in terms of amount of metal poured, filling time and number of castings poured per hour.

How to use Alloy Variations to Enhance Mechanical Performance (25-180)

David Weiss, Vision Materials, Manitowoc, WI

The aluminum casting industry has done a lot of work to improve the quality of molten metal alloys, such as proper de-gassing and cleaning, grain refinement and modification. The mechanical properties of properly prepared materials are expected to meet standards when cast within the allowable chemical compositions of the alloys. If the customer is asking for more, or if section size differences and other factors make it difficult to achieve those properties, the chemical composition range can be used to optimize properties. This presentation will discuss maximizing properties in three commonly used aluminum alloys, A356, E357 and A206 through heat treatment and adjustments to alloy chemistry within the allowable chemistry ranges of those alloys.

6 – 7 p.m.

Omni Atlanta Hotel at Centennial Park - North Tower - International Ballroom Lobby

Annual Banquet Reception

(Cashless Bar)

Join us for a memorable evening with friends new and old. The cashless bar opens at 6 p.m.

7 – 9 p.m.

Omni Atlanta Hotel at Centennial Park - North Tower - International Ballroom

Annual Banquet

(Ticketed event)

Join us for business networking and the presentation of the highest AFS honor, the Gold Medal and the WFO Jozef Suchy Award. The cashless bar opens at 6 p.m. The awards presentation and banquet start at 7 p.m. The President's After Party starts at 9 p.m. Recommended dress is business formal.

9 – 10 p.m.

Omni Atlanta Hotel at Centennial Park - North Tower - International Ballroom

President's After-Party

(Cashless Bar)

Network with your industry peers at this fun capstone to the evening.

Monday, April 14, 2025

7 – 8 a.m.

Room: A302

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 a.m. – 5 p.m.

Georgia World Congress Center Lobby

Registration Open

Attendee bags sponsored by:



Lanyards sponsored by:



7:30 – 10:30 a.m.

Outside Technical and Management Sessions

Coffee Station by AFS Technical and Management Sessions

Coffee Sponsored By:



8 – 9 a.m.

Additive Manufacturing Division

Room: A313

Session Chair:

Jerry Thiel
Precision Casting Technologies,
Dysart, IA

Dave Rittmeyer
Matthews Additive Technologies,
Pittsburgh, PA

3D Printed Pattern Wear High Pressure Green Sand (25-032)

Marshall Miller, 3D Systems, Rock Spring, GA

Although the AFS Library contains at least 10 papers on the wear rates and the application of various pattern materials, only 2 are available that apply to extrusion additive manufacturing and the various materials used or available to use for the application. Most of the outcome of the wear studies are based on the rate of loss of material by weight or simple dimensions and not geometric changes to complex shapes. And, studies reviewed have the testing performed in a laboratory setting on test components, not actual patterns. While laboratory studies are useful, they do not reflect the actual effect different molding processes such as high pressure vertical and cope and drag molding, sand types (angular, sub-angular, round), binders, squeeze/blow pressures and other parameters only experienced in the true foundry molding environment. This presentation will show the wear rate of various materials based on cycle count and geometric measurement over time.

Enhancing Efficiency and Quality in Investment Casting with Additively Manufactured Ceramic Shells (25-094)

Jason Walker and Michael Enciso, The Ohio State University, Columbus, OH

This paper describes improvements aimed at enhancing manufacturing efficiency and casting quality for investment castings using additively manufactured (AM) ceramic shells. These shells, created through a resin-based AM process, incorporate specific design modifications that simplify mold assembly and improve geometric fit. Additionally, new inspection methods were developed to ensure the shells meet specifications before the pouring stage, helping to identify defects earlier in the manufacturing process and thereby reducing costs and waste. By validating shells prior to pouring, the process minimizes unnecessary expenses and material loss. The findings from this work provide valuable insights into the unique considerations of using AM in the foundry industry. This research contributes to better understanding the challenges and benefits of integrating AM technologies in traditional manufacturing processes, highlighting how continuous process refinement can lead to more efficient, reliable, and cost-effective production outcomes in the foundry sector.

8 – 9 a.m.

Cast Iron Division

Room: A311

Session Chair:

Angella Sell
Aalberts Surface
Technologies,
Livonia, MI

Lizeth Medina-Balliet
Neenah Foundry,
Neenah, WI

Characteristics of “Monday Morning” Base Iron (25-113)

Cathrine Hartung, Leander Michels, and Mike Riabov, Elkem Silicon Products; Robert Schmidt, Grede St. Cloud

The term “Monday morning” iron refers to metal that has been held in a furnace over an extended period, typically over a weekend. A key characteristic of these irons is poor potential for graphite nucleation, combined with a high amount of undercooled graphite. Foundries face a labor-intensive process to enhance the quality of this metal before casting. The undesirable microstructure is commonly attributed to the loss of carbon. In this context, the current study examines the role of microinclusions in Monday morning irons under three conditions: after a prolonged holding time, following addition of new carbon, and when the metal is ready for production use. The findings reveal that the poor nucleation condition is not due to carbon loss, but rather to a lower number density and change in morphology of microinclusions, especially sulfides.

The Effect of Carbon Equivalent and Nodularity on Multi-Axial Casting Wall Movement during Spheroidal Graphite Iron Solidification and Cooling (25-056)

Noah Brack, Jingjing Qing, and Mingzhi Xu, Georgia Southern University, Statesboro, GA

Spheroidal Graphite Iron (SGI), also known as ductile iron, is an iron-carbon casting alloy used in industry for its good castability, balanced mechanical properties, and low cost. Ductile iron consists of round graphite nodules in an iron matrix. During solidification and cooling, ductile iron castings experience dynamic volume changes due to the precipitation of graphite nodules and formation of austenite. These dynamic volume changes can distort external casting surfaces, causing swell and shrinkage porosity. A novel apparatus was custom built to capture the casting wall movement in real time along three axes. This study aims to correlate Carbon Equivalent (CE) and nodularity to casting wall movement.

Marketing Division

Room: A315

Session Chair:

John Belmont
American Foundry
Society, Inc.,
Schaumburg, IL

Safety as a Brand Attribute: Internal Buy-In and External Recognition for Your Foundry (25-189)

John Belmont, American Foundry Society, Inc., Schaumburg, IL

This session, developed by the AFS Marketing Division, will explore how a strong safety culture can enhance both internal operations and external brand reputation. Attendees will learn strategies for fostering internal buy-in, ensuring that safety is not just a compliance requirement but a core company value at all levels. The session will also highlight how prioritizing safety can serve as a powerful differentiator in the marketplace, attracting customers, talent, and industry recognition. Through real-world examples and insights from small and large foundries, participants will gain the tools needed to position safety as a defining attribute of their brand.

Thoughts on the Marketing of Quality Castings (25-121)

Theodore Schorn, Enkei America, Inc., Columbus, IN

This paper begins with the observation that quality is a term frequently found in marketing and advertising material, but its definition is elusive for many, leading to vague promises and messages of little attractive power. As important as quality is to foundry products and services, it is under-utilized as an approach to distinguish brand identity and enterprise capability. Sharpened messages with greater content regarding quality, as they arise from an effective definition, can be of great benefit to foundry sales. The author, with over 40 years of quality experience, identifies four steps foundries can take with their marketing and promotional materials that could better utilize quality messaging.

Metalcasting Research

Room: A314

Session Chair:

Mark Adamovits
Matthews
International Corp.,
Searcy, AK

Quantifying Process Relationships for Surface Defects on Chemically-Bonded Sand Systems (25-129)

Dr. Robert Tuttle, Western Michigan University, Kalamazoo, MI

This presentation will provide an update on the current research into the causes of casting surface defect causes. Current progress on both defect scanning technologies and classification will be presented. Future efforts in determining process variable effects on defects in aluminum castings will also be discussed.

Industry Best Practice Data Driven Design Allowable Properties for Some Common Alloys in CADS (Casting Alloy Data Search) Online Tool (25-130)

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

DLA funded and AMC/AFS managed research project has led to the development of a web-based casting alloy data search tool for the design and simulation engineers which provide engineering properties and in most cases fatigue with the supporting pedigreed data, such as chemistry, mold material, casting process, section thickness, type of test bar and heat treatment etc in contrast to the typical handbook static data with no or little supporting pedigree information. Improved data will enable better casting part designs capable of delivering a collection of long-term objectives, i.e., longer service life, lower scrap, lighter weight, and better performance. Through CADS, AFS provides current and qualified information generated using the latest methods and disseminates this information in a user-friendly format to both users and manufacturers of castings. Our latest effort will be presented and will be focused on developing industry best practice-data driven design allowable property values using standard MMPDS methods for 24 new alloys (two copper-base, four aluminum-base, six iron-base, and twelve steel-base grades) from over 11 foundries. The AFS foundry members provided the data and PDA LLC performed the data analysis using MMPDS established statistical method which takes into account the heat and lot variability from the same foundry as well as from one foundry to another foundry for the same alloy grade.

8 – 10 a.m.

The AFS Institute

Room: A316

The 10-Step Method for Corrective Action - Part One (25-153)*Patrick Kluesner, Grede Castings, Waterford Township, MI*

Participants will be introduced to a basic overview of a casting defect analysis procedure: identification, composing a problem statement, recording process parameters, identifying the correct defect and its root cause for correction action. This course is an introduction to navigating the practical handbook, International Atlas of Casting Defects.

9 a.m. – 5 p.m.

Exhibit Hall A1-3

Exhibits Open

9:15 – 10:15 a.m.

Additive Manufacturing Division

Room: A313

Session Chairs:

Marshall Miller
3D Systems,
Rock Spring, GA

Brandon Lamoncha
Humtown Products,
Columbiana, OH

Process and Design Freedom with LightSpeed's BlueNano TM Binder-Enabled 3D Printing of Molds and Cores (25-041)*Daniel Shirkey, LightSpeed Concepts, Inc., Jackson, MI*

Recent binder development innovations are enabling additive manufacturing of molds and cores like never before. LightSpeed Concepts Inc. of Jackson, Michigan has developed BlueNano™ binder that is a sustainably sourced, organic, one-part binder system applicable for all common metals and is environmentally friendly without explosion or other health & safety risks, and fully reclaimable at relatively low temperature. The odorless binder can be used with all raw mold/core media (no mixing or pH management), does not require ovens or microwaves for curing, and the simple desanding/depowdering process eliminates quality defects, labor and costs from the process. Additionally, the free flowing desanding characteristic allows for gating, risering, and casting design features like small cavities, undercuts, blind risers, etc. that are impossible with traditional binders and methods, yielding lighter, stronger, and more sustainable castings.

Density and Surface Texture Measurements of 3D Printed Sand to Improve Molding (25-078)*Samuel Morris and Philip King, University of Main, Orono, ME*

Within the field of 3D sand printing, there is a growing need to understand the anisotropic behavior of sand in the build envelope of 3D sand printers. For metal casting, this understanding will improve mold accuracy and design. This work provides methodologies to characterize printed sand's density and surface texture as related to orientation within a printer build envelope, two properties that directly impact liquid metal flow and solidification. Density of printed

Schedule is subject to change.

sand samples was found to vary based on the travel direction of the printer recoater. Surface roughness was found to be influenced by multiple factors, each raising the surface roughness by up to 13%. These findings highlight the importance of considering anisotropy in the design of 3D printed sand molds. The methodologies developed in this study provide a foundation for future research aimed at improving the modeling of complex 3D printed sand molds.

Aluminum & Light Metals Division

Room: A312

Session Chair:

Adam Kopper
Brunswick Corp.,
Fond du Lac, WI

Gas to Air Heat Recovery from Aluminum Melting Furnaces using Heat Pipe Technology (25-084)*Scott Harris, Solex Thermal Science, AB, Canada*

Heat pipes are an effective and reliable way to recover heat from aluminum melting furnace gas streams in US foundries. Lower operating costs are achieved with a failsafe production bypass design, independent heat pipe reliability, and ease of maintenance. Heat pipes are proven in the dirty flue gas environments of aluminum melting furnaces and several cases will be presented.

Methodology for Evaluating Converting Ar for N2 for Liquid Metal Treating: A Case Study (25-120)*Robert Mackay and Glenn Byczynski, Nemak, Southfield, MI*

Well established liquid metal treatment is critical towards the production of high quality casting components made in North American foundries which compete on the worldwide markets. This also hold critically true for foundries cost of operations which can impact their ability to be competitive on the same worldwide markets. This manuscript is a case study on converting costly Ar used for rotary degassing to N2 without stopping production for metallurgical assessments on the inset gas conversion. However, it will be critical to review the melting processes involved as an inset gas replacement for cost optimizations may not be achievable in limited environments.

Engineering & Smart Manufacturing Division

Room: A315

Session Chair:

Greg Bray
Electric Controls
& Systems,
Birmingham, AL

Digital Characterization of Casting Surfaces (25-138)*Frank Peters, Iowa State University, Ames, IA; Daniel Schimpf, Volkswagen, Germany*

Casting surface specifications are set based on aesthetics, functionality or a combination of both. To classify casting surfaces, visual inspections are performed by an operator who compares the casting surface to pictures or comparator plates that represent a certain roughness level. This inspection process is highly subjective, disagreements arise on the acceptance of a casting between the casting producer and buyer. To minimize these disagreements and use developments in 3D scanning, the objective of this project is to develop a digital surface characterization method. The method developed and implemented in this project utilizes underlying geometry estimation, abnormality detection, and a new roughness characterization formula based on a variogram to determine a surface roughness value. Tests were done to compare the new roughness characterization formula with existing quantification methods and to compare the results of the method with human operators.

Schedule is subject to change.

9:15 – 10:15 a.m.

Environmental, Health & Safety Division

PANEL: EHS Hot Topics (25-177)

Room: A314

Session Chair:

Earl Miller
Hiler Industries,
La Porte, IN

Air Quality:

Jeet Radia, *McWane, Inc., Birmingham, AL*

Water, Waste & Byproducts Management

Dan Plant, *Metal Technologies Corporate Center, Auburn, IN*

Safety & Health

Mickey Hannum, *McWane, Inc., Birmingham, AL*

Environmental, Health & Safety Committees overview.

Steel Division

Room: A311

Session Chair:

Robert Tuttle
Western Michigan
University,
Kalamazoo, MI

Controlling Nitrogen Pick-Up during Induction Melting of Ultra-High Strength Cr-Mo-Ni-V Steels (25-022)

Kingsley Amatanweze, Viraj Athavale, Mario Buchely, Laura Bartlett, and Ronald O'Malley, Missouri University of Science and Technology, Rolla, MO; Daniel Field, DEVCOM Army Research Laboratory, Adelphi, MD

Nitrogen pickup during air induction melting can result in porosity and a loss of fracture toughness in ultra-high strength quenched and tempered steel castings. Nitrogen atoms are easily adsorbed into the liquid steel upon exposure to the air and argon shrouding alone has limited effectiveness. Previous studies have shown that proper charge sequencing and keeping a high amount of dissolved oxygen in the melt prior to tapping and deoxidation can limit nitrogen pickup in the melt. In the current study, the effect of melt practice and charging procedure on nitrogen pickup was studied as a function of hold time in a series of lab scale and commercially produced heats of a Cr-Ni-Mo steel intended for ground engaging equipment. By controlling the melting time, purity of charge materials, and development of a dome shrouding method, the nitrogen content was reduced from 170PPM to less than 80PPM.

Q&P Heat Treatment of a FeCSiMn Steel (25-026)

Robert Tuttle, Western Michigan University, Kalamazoo, MI; Mujeeb Shaik, Maynard Steel, Milwaukee, WI

The specialized quench and partition (Q&P) heat treatment process appears to have broad application, including in cast products. This study investigates the response of a 0.25C-1.7Si-3.4Mn cast steel to different Q&P heat treatment cycles. A 25 mm thick Y-block casting provided a longer solidification time and diffusion distance than has been done in this alloy before. Smaller samples were extracted from the Y-block casting for heat treatment. These were then examined to determine their hardness, microstructure, and phase formation. X-ray diffraction (XRD) confirmed phase evolution and retained austenite carbon content. Data also suggests that the time lengths for the various Q&P stages must be longer for thicker sections to achieve the desired structures and properties.

Schedule is subject to change.

9:30 – 10:15 a.m.

Casting Designers and Buyers

Casting Source Theater
in the AFS HUB - Booth
320

Session Chair:

Kim Phelan
American Foundry
Society, Inc.,
Schaumburg, IL

Reduce Defects to Reduce Rejects: Improving Quality in Your Castings (25-192)

Dr. Sudesh Kannan, Consultant, Schaumburg, IL

No one wants to deal with rejected product. Our metalcasting expert explains the causes behind the most common casting defects and what foundries can do to ensure your components meet your quality requirements.

10:30 – 11:30 a.m.

HOYT MEMORIAL
LECTURE

Room: A411-A412

Servant Leadership: A Leadership Concept for Today's World (25-091)

Frank Headington, Retired, Neenah Foundry



Our world is a mess. People are suffering to some degree or another everywhere we look. One major reason the world is like this is that people are using the power model of leadership which focuses on power and control. That coupled with the reduction in interpersonal communications has created a more divisive climate at work and in our government relations with our citizens. Servant leadership is about serving people, not using people. Serving others is the most meaningful and satisfying way for leaders to live and lead. It begins with "the natural feeling that one wants to serve."

Since starting at Neenah Foundry in 1989, Frank Headington has over 49 years of foundry experience. He has a Master's of Science in Industrial Management from Georgia Institute of Technology and a Master's of Science in Ceramics Engineering from the University of Illinois at Urbana-Champaign. Respected for his expertise in metalcasting, Headington was the 2016 recipient of the AFS Peter L. Simpson Gold Medal. Headington has been an active member of AFS serving on numerous technical committees, the AFS Board of Directors, AFS Research Board and as AFS staff holding the position of Interim Technical Director from 2017-2020.

11:30 a.m. – 1:30 p.m.

Ray's in the City

Past Presidents' Luncheon

The annual gathering for all past AFS Presidents. *Must be a previous AFS President to attend. Must register to attend. Shuttle available for attendees.*

Schedule is subject to change.

12:30 – 1:15 p.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry Society, Inc.,
Schaumburg, IL

What to Ask a Prospective Foundry Partner (25-193)

TBA

You've got your CAD design and specifications, but where do you begin the journey of evaluating which foundry is best suited to produce your casting? We'll walk you through all the questions you need to ask to make an informed decision – this checklist could prevent a costly mistake.

1:30 – 2:15 p.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry Society, Inc.,
Schaumburg, IL

Selecting the Right Alloy (25-203)

Tom Prucha, MetalMorphosis LLC,
Rochester Hills, MI

Getting the material properties required for a casting often hinges on using the correct metal alloy—and there are literally hundreds to choose from. Don't be inundated; be educated. This overview will equip you on the fundamentals of alloy selection and why foundries make different recommendations depending on the end-use application and your specifications.

1:30 – 3 p.m.

Environmental, Health & Safety Division

Room: A314

Session Chair:

Jeet Radia
McWane, Inc.,
Birmingham, AL

Property Risk Management and Insurance Strategies for Metalcasters (25-164)

Katie Hensley, Cottingham & Butler, Dubuque, IA

In the evolving landscape of property risk management, metalcasters face unique challenges that necessitate specialized insurance and risk engineering strategies. This paper explores the critical aspects of property risk management, focusing on the increased frequency of catastrophic events, the reinsurance dilemma, and the proactive steps metalcasters can take to improve their insurability and secure favorable insurance terms.

3D Printing Safety (25-175)

Jeff Krause, HA Group, Westmont, IL

The rapid adoption of 3D printing technology for foundry molds and cores has brought use of furan binder technology to many new facilities, some of which may not be fully aware of the inherent hazards of this binder system. This paper explains the chemical reaction hazards inherent in the furan binder technology and describes a comprehensive approach toward managing these hazards.

Foundry Safety Management System at Virginia Tech (25-092)

Alan Druschitz, Virginia Tech, Blacksburg, VA

The Environmental Health and Safety Department at Virginia Tech created a safety management system for the on-campus Kroehling Advanced Materials Foundry. This system was so successful that it was rolled out to the entire University. This paper describes the safety management system and how it is used by students, faculty, and staff at the foundry.

Government Affairs

Room: A313

Session Chair:

Stephanie Salmon
AFS Washington Office,
Washington, D.C.

Update on the Trump Trade Agenda: New and Future Tariffs, Status of USMCA & Efforts to Enhance Trade Enforcement (25-190)

Nicholas Birch, Schagrin Associates, Washington, D.C.;
Brad Muller, Charlotte Pipe & Foundry Co., Oakboro, NC;
Stephanie Salmon, AFS Washington Office,
Washington DC

President Trump campaigned heavily on expansive trade policy changes and vowed to use tariffs to rebalance trade relationships and create leverage to win concessions and make deals on both economic and non-economic issues. Join us for this important session with Nick Birch, a Washington, DC-based trade lawyer, who will provide an overview of the new tariffs and likely forthcoming trade measures, how they might leverage international agreements, enhancing trade enforcement tools, and overview of filing a trade case.

Lost Foam Division

Room: A312

Session Chair:

Jeff Prickett
Metals Alloys & Refractories,
Lenoir City, TN

Lost Foam Retrospective: A Look Back and Looking Forward (25-053)

Sarah Jordan and Mark DeBruin, Skuld LLC,
Piqua, OH

The co-founders of Skuld have worked in lost foam casting since 2000. They have created numerous innovations including surface alloying with lost foam, low carbon steel in lost foam, thin walled ductile iron, and most recently the additive manufacturing evaporative casting (AMEC) process. This presentation will cover a brief history of lost foam casting and various now closed plants. Then we will pivot to a more optimistic view of the future outlook and what Skuld forecasts for the future.

1:30 – 3 p.m.

Lost Foam Division

Room: A312

Session Chair:

Jeff Prickett
Metals Alloys &
Refractories,
Lenoir City, TN

Lost Foam Stainless Steel (25-031)

Marshall Miller, 3D Systems, Rock Spring, GA

In order to improve the possibility to re-shore castings sourced overseas to lower (cost) labor regions, and in accordance with the Mission Statement of the Lost Foam committee, a project to produce low carbon ASTM A352 Grade CF8M (.08% C maximum) stainless steel was proposed to and approved by the AFS Research Board. The market for these materials is currently dominated by the sand and investment casting processes. The Lost Foam process has significant potential advantages in this market by producing products with the delivery time advantages of sand casting, and the precision levels of investment casting. This paper shares test data and product results from tests conducted at 4 global production facilities, not laboratories, to produce ASTM A351 CF8M Stainless Steel with .08% maximum Carbon level in the Lost Foam Process. Results from testing at 4 separate foundries found that the process can produce high temperature stainless steel with a .015% max. carbon and indicators that adjustments to process parameters can likely produce the desired end result of .08% max. chemistry.

Steel Division

Room: A311

Session Chair:

Robert Tuttle
Western Michigan
University,
Kalamazoo, MI

Solidification of Medium Manganese Q&P Steels (25-073)

Robert Tuttle, Western Michigan University, Kalamazoo, MI

Quench and partition steels with medium manganese contents have attracted increasing interest for a variety of applications. This study examined two med-Mn steel alloys to better understand their solidification and phase reactions that occur. Thermal analysis results were compared to thermodynamic predictions to determine the validity of the predictions. Overall, the thermodynamic predictions were fairly accurate in terms of the liquidus and peritectic temperatures. However, the solidus temperatures differed dramatically. The as-cast microstructure was fully martensitic, which was not expected. Computed TTT and CCT diagrams were done to determine the predicted structure, but these did not accurately predict the observed microstructure.

PANEL: Feeding in Steel (25-157)

Gerald Richard, MAGMA Foundry Technologies, Inc., Schaumburg, IL; Joshua Gammariello, Foseco, Chattanooga, TN

The panel will answer questions on the best way to feed steel castings. These experts range from foundries, suppliers, and simulation experts. They will each provide insights into their approach to feeding and discuss best practices. The broad membership will help foundries learn about new techniques from across the industry.

Talent Development Division

Room: A315

Session Chair:

Cathy Potts
American Foundry
Society, Inc.,
Schaumburg, IL

PANEL: From Toxic to Thriving: Boosting Engagement Through Positive Workplace Cultures (25-160)

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. Join this panel discussion and win some cool door prizes.

Panelists:

*Amanda Groves, Lodge Mfg. Co., South Pittsburg, PA;
Jim Peterson, ADECCO, Perryville, MO
Patrick Frazier, ME Global, Inc., Tempe, AZ
Derek Brown, Safepath Solutions, Birmingham, AL*

1:30 – 3:30 p.m.

The AFS Institute

Room: A316

The 10-Step Method for Corrective Action - Part Two (25-154)

Patrick Kluesner, Grede Castings, Waterford Township, MI

Participants will be introduced to a basic overview of a casting defect analysis procedure: identification, composing a problem statement, recording process parameters, identifying the correct defect and its root cause for correction action. This course is an introduction to navigating the practical handbook, International Atlas of Casting Defects.

3 – 4 p.m.

Casting Source
Theater in the AFS HUB -
Booth 320

Casting Dreams Competition

The Casting Dreams program is a national program that provides local educational opportunities and industry connections that include casting design and production that qualify for local, regional and national competitions. The Casting Dreams Competition is designed for individuals ages 8 to 18, welcoming everyone who wishes to participate. 1st, 2nd, and 3rd place will be announced during this session.

3:15 – 4:45 p.m.

Aluminum & Light Metals Division

Room: A312

Session Chair:

Carl Soderhjelm
Advanced Casting
Research Center,
Irvine, CA

Development for High Cycle Fatigue Durability using the Precision Sand Casting Process (PSCP) Cast Component (25-119)

Robert Mackay and Glenn Byczynski, Nemak, Southfield, MI

The Precision Sand Casting Process (PSCP) using secondary grade aluminum is used to manufacture components that have complex architectures but also sustain high cyclical compression and tensile loads in service. The literature generally argues the key to improved fatigue life is to keep porosity as low as possible. There are multiple approaches in the casting development process to achieve improved fatigue durability. This paper reviews most of the main PSCP options which can address high cycle fatigue requirements in high horsepower (hp) applications and identifies the research needed in the future to further push secondary aluminum PSCP fatigue performance.

Conductivity and Structural Changes in Al-Ni Alloys with Varying Ni Content (25-112)

Kentaro Lunn, Diran Apelian, and Zac Han, University of California-Irvine, Irvine, CA

The Al-Si eutectic has been the standard casting alloy system since the early 1900's. However, its conductivity properties are inherently limited to ~50% and 70% of pure Al's in the as cast and heat treated states, respectively. The Al-Ni system is one of the leading candidates offering a potential for a higher combination of conductivity and mechanical properties. However, relationships between Ni content, conductivity, and structural changes have not been explored thoroughly for cast Al-Ni alloys. This study aims to clarify these microstructure-property relationships to provide guidance to alloy design efforts.

Formation of Graphene by CO₂ Bubbling in Magnesium Melt to Synthesize Magnesium Composite (25-105)

Mehran Zare, Omid Ghaderi, Swaroop Behera, Kaustubh Rane, and Pradeep Rohatgi, University of Wisconsin-Milwaukee, Milwaukee, WI; Behzad Niroumand, Isfahan University of Technology, Isfahan, Iran

Carbon and its allotropic structures have been considered as promising materials in state-of-the-art applications. Since the invention of graphene, it has been extensively studied due to its enhanced properties. Graphene can be used in the manufacturing of metal matrix composites (MMCs) to enhance their mechanical, physical, and structural properties. The findings suggest that by employing CO₂ bubbling, graphene-embedded magnesium composites can be successfully synthesized. Based on the previous works, with CO₂ bubbling, Graphene embedded magnesium composite can be synthesized successfully, and mechanical and physical properties of final composite can be enhanced significantly. Furthermore, this paper presents the initial results from experiments performed at the University of Wisconsin-Milwaukee (UWM). Raman spectroscopy, scanning electron microscopy (SEM), and mechanical testing investigations demonstrate the formation of graphene within the magnesium matrix, leading to a 16.5% improvement in hardness compared to the control sample.

Schedule is subject to change.

Metalcasting Research

Room: A314

Session Chairs:

Vasko Popovski
Ransom & Randolph,
Canonsburg, PA

Benchmarking Shell Recycling, Productivity Metrics, and Riser Practices in the North American Investment Casting Industry (25-061)

Victor Okhuysen, Cal Poly Pomona University, Pomona, CA; Brian Began, American Foundry Society, Inc., Schaumburg, IL

This paper documents the results of a recent survey of the domestic investment casting industry. It was conducted in support of a research project co-sponsored by the project team and by the Defense Logistics Agency-Troop Support, Philadelphia, PA and the Defense Logistics agency Information Operations, J68, Research and Development, Ft. Belvoir, VA. The 26-question survey shed light on prevalent industry practices related to risering castings, shell and casting productivity, and they use/opportunity involve in recycling investment casting shells.

The results largely confirmed the research team's observations of the industry and provided metric references for the various opportunities involved in developing improved risering tools/technologies specific to investment castings, recycling shells, and improving productivity in shell production.

Investment Casting Agility and Sustainability Research (AMC/DLA Funded) (25-140)

Jiten Shah, Product Development & Analysis LLC, Naperville, IL; Brian Began, American Foundry Society, Inc., Schaumburg, IL

This five-year research program focusses on reducing shell drying cycle time and smart pattern burn out algorithm; recycling and reusing alumino-silicate investment shells and better understanding feeding behavior of investment cast steels by establishing feeding distances and risering guide. We will present the progress made since the start of the project in October 2023 with some preliminary results to share and outline the investment foundry participation into this on-going project.

World Foundry Organization (Molding)

Room: A313

Session Chair:

Brian Rachwitz
EJ, East Jordan, MI

Enhancing Indian Bentonites for Foundry Green Sand Applications with the Addition of Minerals from India (25-013)

Victor LaFay and Patricia LaFay, Common Sense Applications LLC, Cincinnati, OH; Robert Steele, FACT, Ponte Vedra Beach, FL

India has the second-largest metal casting production in the world, with green sand molding as one of its predominant processes. Naturally occurring Indian bentonite has been used successfully for many years. Enhancing these bentonites to produce high-quality metal castings and reduce bond consumption by adding naturally occurring minerals has proven successful.

Schedule is subject to change.

3:15 – 4:45 p.m.

**World Foundry
Organization (Molding)**

Room: A313

Session Chair:

Brian Rachwitz
EJ, East Jordan, MI

Influence of Powder Additives on the Final Properties of Inorganic No-Bake, Inorganic Cold Box and Hot Box Binders (25-044)

Sritama Kar, Tim Ziehm, Markus Jonek, and Martin Oberleiter, ASK Chemicals, Dublin, OH

In recent years, inorganic sodium silicate binders for Hot Box-processes have garnered significant attention within the foundry industry due to their environmental as well as processual benefits and their potential in producing critical aluminum cast parts for automotive engines, e-engines, suspensions and subframes. As water-based systems, these binders emit zero harmful educts of reactions, aligning with stringent environmental standards. As regulations tighten it is compulsory to transfer this experience of core and mold making in Hot Box processes to other segments of inorganic binder systems: Ester-cured No-Bake and CO₂-cured Cold Box. This study investigates the effects of powder additives on the performance of No-Bake and Cold Box sodium silicate binders, with the goal of enhancing the overall performance of these inorganic binder systems. The findings are expected to provide valuable insights for improving the bandwidth of inorganic binder applications, expanding these further into No-Bake and Cold Box applications, opening an environmentally friendly solution to non-automotive foundries that need to reduce their emissions or want to improve their EHS footprint for the sake of employees, stakeholders, and shareholders.

3:15 – 4:45 p.m.

Young Professionals

Room: A315

Session Chair:

Cathy Potts
American Foundry
Society, Inc.,
Schaumburg, IL

PANEL: Choosing a Path Forward: Balancing Technical and Management Experiences (25-159)

Panelists:

Jay Morrison, Carpenter Brothers Inc., Mequon, WI
Mark Didion, Didion International, Inc.,
Saint Peters, MO
Jarek Olszak, Laempe Reich, Trussville, AL
Ashley Folden-Ecker, MacLean Power Systems,
Mankato, MN

Do you feel like you have to choose between deepening your technical expertise or stepping into management?

What if you could blend both to create a unique and rewarding career path?

In this engaging panel, we'll dive into the stories of professionals in the metalcasting industry—each with their own journey of balancing technical mastery and leadership roles. Whether you're drawn to deepening your expertise or the challenges of leading teams, our panelists will share how they navigated their careers and what they looked for in others.

Whether you're just starting out or looking to pivot, this panel will equip you with practical guidance and inspiration to carve your own successful path in the dynamic world of metalcasting.

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Schedule is subject to change.

5 – 6 p.m.

Room: A404-405

Young Professionals Reception

You're Invited! AFS Young Professionals Networking Reception – Cocktails & Great Connections! Ready to mix, mingle, and make valuable connections at CastExpo 2025? Join us for the AFS Young Professionals Networking Reception in Room A404-A405 at the Georgia World Congress Center! Enjoy some beverages while networking with fellow rising leaders in metal-casting. Whether you're already on the management track or aspiring to be, this is the perfect chance to build relationships, swap ideas, and take your career to the next level—all in a relaxed, fun atmosphere. Don't miss out—grab a drink and grow your network! We can't wait to see you there!

Thank you to our sponsors:



6 – 9 p.m.

College Football Hall of Fame

Alumni Dinner

(AFS Alumni only. Ticket Required)

Alumni will experience the College Football Hall of Fame touring the special exhibits and permanent installations, while enjoying bold American cuisine. *Must be a member of AFS Alumni to attend.*

Schedule is subject to change.

Tuesday, April 15, 2025

7 – 8 a.m.

Room: A302

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.

Outside Technical and Management Sessions

Coffee Station by AFS Technical and Management Sessions

Coffee Sponsored By:



8 – 9 a.m.

Additive Manufacturing Division

Room: A313

Session Chair:

Jerry Thiel
Precision Casting Technologies,
Dysart, IA

Dave Rittmeyer
Matthews Additive Technologies,
Pittsburgh, PA

Utilizing 3D Sand Printing to Create Community Art (25-097)

Elijah Kallio, Waupaca Foundry, Waupaca, WI

How we used our 3D sand printer to create castings for a community art project for the city of Waupaca.

Utilizing 3D Printing to Solve Supply Issues (25-156)

Ryan Hansch, Waupaca Foundry, Waupaca, WI

We recently encountered a scenario where the sole supplier of our date codes went out of business and there were no readily available commercial alternatives. We developed a program within CAD modelling software to make models of our date codes as the dates change. We then utilized commercial/industrial 3D printers to begin printing all of our date tag inserts for the whole company.

Schedule is subject to change.

8 – 9 a.m.

Metalcasting Research

Room: A314

Session Chair:

Mark Osborne
Wabtec,
Haslet, TX

Progress and Problems in the Production of Nano-Reinforced Aluminum Alloys (25-128)

David Weiss, Vision Materials, Manitowoc, WI

The production of aluminum nanocomposites with conventional and experimental aluminum alloys reinforced with nano-sized alumina using a master alloy is discussed. The reinforcement phase can have both positive and negative interactions with various alloying elements in both the liquid matrix and the solid master alloy. Magnesium is usually bound to the particles, reducing the amount available for solid-solution strengthening or as mixed precipitates. On the other hand, certain elements (Mg, Ce) are highly reactive aiding in the dispersion of the master or reduce the surface tension of the matrix alloy (Mg, Zr, Ni, Ce), or produce exothermic reactions during mixing (Ce,Zr,Cu₂O, CuO) which also aids in master alloy dispersion.

World Foundry Organization (Engineering)

Room: A312

Session Chair:

Doug Starr
Saudi Mechanical Industries,
Strongsville, OH

Avoiding Defects Appearing During Shut Down Phase in Vacuum Arc Remelting Using Process Modeling (25-071)

Swapnil Salokhe and Ole Koeser, ESI Group, Novi, MI;
Vahid Rastegar, Materion Newton, Inc., Newton, MA

A leading producer of specialty materials uses the vacuum arc remelting process to manufacture high-quality ingots of Niobium alloys for aerospace, defense, and semiconductor applications. Under specific ingot geometries and process parameters, they observed large shrinkage cavities at the top of the produced ingots, impacting the process's productivity (see Figure 1). Despite diligent efforts, minimizing or eliminating these defects has been difficult, posing an obstacle to their production efficiency.

To address the production issue, it was decided to use process modeling using ProCAST casting FEM software solution to simulate the principal aspects of the specific volume arc remelting process to identify the potential root causes of the defect creation and, subsequently, identify viable solutions for mitigation.

Revolutionizing Metalcasting: Mega Casting Innovations and Complete Process Simulation (25-104)

Loic Calba, Swapnil Salokhe, and Sandesh Kharvi,
ESI Group, Novi, MI; Loic Calba, University of Metz-Lorraine, Bagnaux, France

Mega casting presents significant challenges and opportunities in metal casting. This paper examines how advanced process simulation technologies are crucial for overcoming these challenges and maximizing Mega casting innovations. It begins with a co-design castability check, highlighting the importance of incorporating casting considerations early in design to tackle Mega casting's unique hurdles. The paper discusses gate design optimization and how simulation tools manage large-scale gating complexities for better outcomes. It also addresses the integration of Mega press capacity with process modeling for precise casting control, identifying and mitigating defects, and enhancing overall quality. Additionally, the paper explores strategies to predict and mitigate part deformation and prolong die life, emphasizing simulation's role in reducing development time and improving accuracy. Ultimately, this paper shows how process simulation technologies are transforming metal casting, enabling unprecedented advancements in Mega casting while addressing its inherent challenges.

8 – 10 a.m.

The AFS Institute

Room: A316

Introduction to Casting Design (25-155)

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

Introduction to Casting Design is an overview of the Institute's popular, 2-day Casting Design course. Attendees will explore alloy selection, metalcasting process capabilities and limitations, and their effects on casting design, including the impact of secondary operations.

8 a.m. – Noon

Georgia World Congress Center Lobby

Registration Open

Attendee bags sponsored by:

Lanyards sponsored by:



9 a.m. – Noon

Exhibit Hall A1-3

Exhibits Open

9:15 – 10:15 a.m.

Additive Manufacturing Division

Room: A313

Session Chair:

Jason Walker
The Ohio State University,
Columbus, OH

Rich Lonardo
Defense & Energy Systems,
Poland, OH

Advancing Sustainability in 3D Sand Printing: Reclamation and Reuse of Non-Printed Sand to Improve Process Economics (25-124)

Kelley Kerns and Michael Anthony, HA Group, Westmont, IL; Nathaniel Bryant, University of Northern Iowa, Cedar Falls, IA; Dave Rittmeyer, Matthews Additive Technologies; Mark Lamoncha, Humtown Products, Columbiana, OH; Michael Anthony, HA Group, New Castle, PA

The growth of 3D sand printing in metal casting has resulted in substantial non-printed waste sand from sand core production using binder jetting technology. This research investigates methods for blending, mechanical and thermal reclamation methods to recycle this waste sand, aiming to improve sustainability and reduce costs in additive manufacturing. By evaluating these techniques' effectiveness in maintaining sand properties, the study seeks to establish sustainable practices for sand reuse and reclamation. The findings are expected to aid in developing guidelines for using reclaimed sand in 3D sand printing applications.

Prototypes Produced using Additive Manufacturing Compared to Alternate Methods (25-090)

Bernard Potts, Consultant, Shelbyville, IN

This paper compares 3D printed prototypes to other methods used to produce prototypes. The prototype production methods are as follows. 3D printed parts, machined parts from billet, cast prototype parts using conventional tooling such as wood or metal patterns, prototype castings using 3D printed plastic patterns and Poly/Styrofoam patterns. Comparisons of the various methods will be made considering delivery, quality and cost. Also addressing how much technical expertise that will be required to produce and quality part. The equipment will also be required to manufacture the prototypes will also be discussed. Example: 3D Printers for Sand, Metal, Plastic etc.

Aluminum & Light Metals Division

Room: A312

Session Chair:

Alan Luo
The Ohio State University,
Columbus, OH

Material Characterization of Aluminum Castings Using Machine Learning Techniques (25-101)

Meysam Akbari, Liang Wang, and Qigui Wang, General Motors, Warren, MI

The emergence of ML techniques has significantly improved the accuracy and efficiency in materials characterization. This paper reviews the application of ML algorithms in microstructure analysis and defect detection processes of aluminum castings at GM. By leveraging ML methods, multiple ML models were trained to automatically identify and classify different types of casting defects and microstructural features. Advanced image processing techniques, combined with convolutional neural networks (CNNs), enable the detection of casting defects such as shrinkage porosity and oxides and multiscale microstructure features for instance eutectic phases and secondary dendrite arm spacing of aluminum. This study highlights the advantages of the developed ML models in the accuracy and reduction of measurement time in the lab and reducing the reliance on manual analysis and subjective judgment. The findings emphasize the significant impact of ML techniques on metallurgical research and industrial applications, enhancing the reliability and performance of material analysis tools.

Structural Casting Alloys with Highest Recycling Content and Lowest Carbon Footprint (25-123)

Jay Armstrong and Grant Hatfield, Trialco, Chicago Heights, IL; Martin Hartlieb, Viami International, Inc., QC, Canada

With the electrification of vehicles, less powertrain castings and more structural castings are needed. Powertrain castings were mainly made from secondary alloys. Structural castings have been made from primary alloys to guarantee the purity and consistency needed for those safety critical castings. Today not only post- and pre-consumer scrap is coming to the market and must find new homes. Know-how in terms of scrap recycling, segregation and sorting, as well as melt treatment/cleaning practices have been improving a lot. This allows us today to produce structural die casting alloys with high recycling rates and therefore low carbon footprint, without negatively impacting their quality and performance. This paper describes latest trends and developments on this topic and describes which alloys can be made with which types of scrap and what are the limiting factors.

9:15 – 10:15 a.m.

Government Affairs

Room: A315

Session Chair:

Stephanie Salmon
AFS Washington Office,
Washington, D.C.

Don't Sit on the Sidelines: What Metalcasters Can Expect from the Trump Administration and Congress in 2025 (25-191)

Stephanie Salmon, AFS Washington Office, Washington, D.C.; Brad Muller, Charlotte Pipe & Foundry Co., Oakboro, NC

Learn about the key tax, trade and workplace matters that AFS is weighing in on in Washington, D.C. as we continue to work to promote pro-growth measures and halt the regulatory onslaught. The expiration of the major portions of the Tax Cuts and Jobs Act is the catalyst for a major tax reform event in 2025 – metalcasters and suppliers will learn about the progress to shape the tax package.

9:30 – 10:15 a.m.

Casting Designers and Buyers

Casting Source Theater in the AFS HUB - Booth 320

Session Chair:

Kim Phelan
American Foundry Society, Inc., Schaumburg, IL

Rapid Prototyping and Advanced Manufacturing (25-194)

Dave Rittmeyer, Matthews Additive Technologies, Pittsburgh, PA

The metalcasting industry is experiencing a tremendous evolution right before our eyes as 3D printing super-accelerates the foundry's ability to produce prototypes, molds, and cores--giving you unprecedented go-to-market speed. Hear the latest advancements and success stories happening throughout the North American manufacturing landscape.

10:30 – 11:30 a.m.

KEYNOTE

Room: A411-A412

Reshoring Update for North American Foundries (25-170)

Harry Moser, Founder, The Reshoring Initiative



Reshoring and foreign direct investment (FDI) have brought back over 700,000 U.S. manufacturing jobs in recent years. At the same time, the COVID crisis demonstrated the risk of long supply chains. These trends have drawn attention to the advantages of reshoring and nearshoring.

Harry Moser, Founder of the Reshoring Initiative, will provide fresh new examples of how U.S. foundries are taking advantage of the trend toward shorter supply chains and what that means for your company and your customers. Plus, discover how Reshoring Initiative's Total Cost of Ownership Estimator and the Import Substitution Program can help your company land contracts that otherwise would have gone overseas.

Noon

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Learn about our culture
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- ▶ Quality Products
- ▶ Experienced Team

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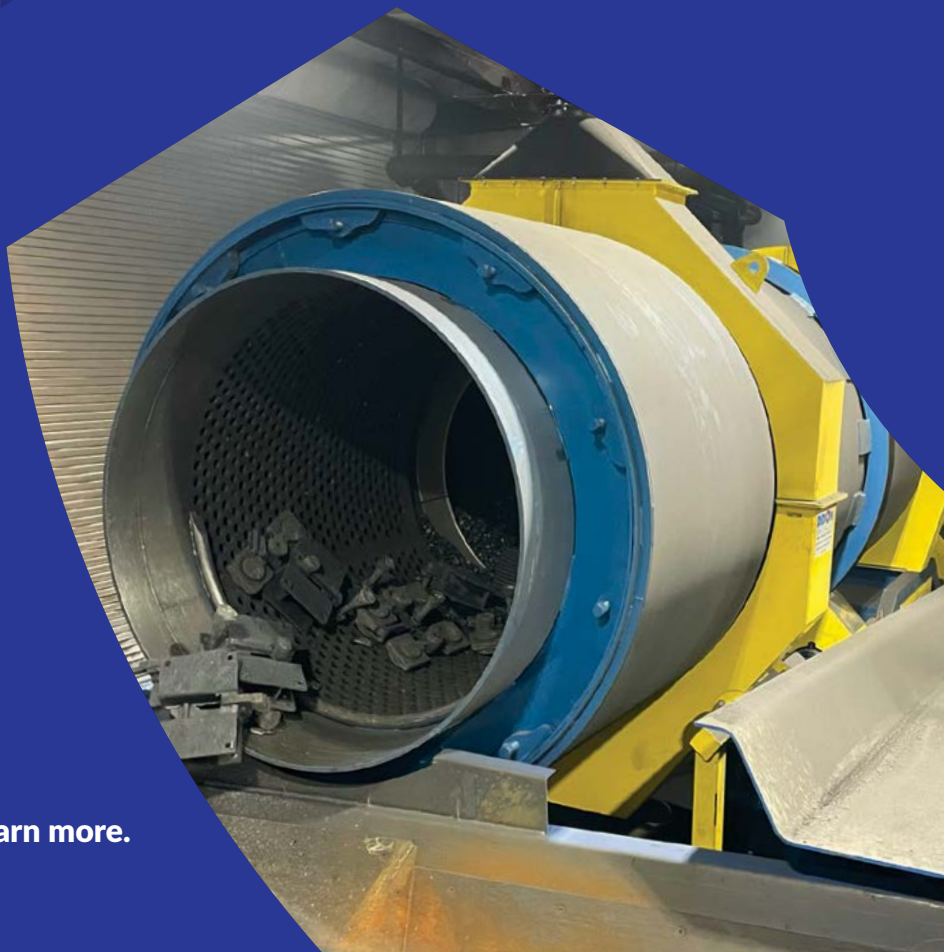
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Plant Engineer,
Progressive Foundry

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Supplier Exhibitor Booth List: Alphabetical (As of 2/21/2025)

0-9		
3D Systems*	2419	
A		
A W Bell Machinery*	1155	
ABP Induction LLC*	2329	
Abrasive Technology*	1919	
Acme Manufacturing	1210	
Advanced Foundry Specialists	3036	
Advanced Material Solutions*	2707	
Advanced Pattern Works LLC*	912	
Advanced Tooling Inc.	2727	
Advent Silica Materials LLC	2241	
AFS Institute*	655	
Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519	
Albarrie Environmental Services Ltd.*	1108	
Aleaciones Prealeaciones y Desoxidantes S L	854	
Allied Mineral Products Inc.*	1649	
AMAFOND	2829	
AFS - The Hub*	320	
AFS - Casting of the Year*	350	
American Metalcasting Consortium	754	
AMV Soluciones S L	855	
Anderson Laboratories Inc.	850	
Anhui Ningguo Hantai New Materials Limited Company	2737	
Applied Foundry Solutions	2619	
Arcos-USA	914	
Asbury Carbons Inc.	2744	
ASK Chemicals*	2136	
ATD Engineering & Machine*	2729	
Automation Systems & Design Inc.*	2046	
B		
B&L Information Systems Inc.*	1629	
Badger Mining Corporation*	844	
Bartley Crucible & Refractories Inc.	2246	
Belmont Metals Inc.*	2150	
Best Performance Inc.	3018	
Blasch Precision Ceramics	1748	
Blast Cleaning Technologies*	1207	
Blastec Inc.*	1023	
Bronco Blast*	1104	
Bruker	2451	
C		
CA Picard Inc.	2222	
Can-Eng Furnaces International Ltd.	1154	
Capital Refractories Inc.*	1246	
CARBO*	2738	
Carpenter Brothers Inc.*	1105	
Carrier Vibrating Equipment Inc.*	1525	
CASTEC Inc.	808	
CCEWOOL Thermomax Inc.	1813	
CCMA LLC	2550	
Champion Chisel Works	2749	
Chesapeake Specialty Products*	841	
Chicago Protective Apparel*	638	
Clansman Dynamics USA*	643	
CMH Manufacturing Co.	2718	
Compass Engineering Corp.	2818	
Conveyor Dynamics*	1227	
Corona Cadinhos E Refratarios	946	
Covia Corporation*	837	
D		
Danusun International Materials Co. Limited	1949	
Daubert Cromwell*	1017	
Del Sol Industrial Services Inc.	2611	
Diamant Polymers Inc.	1811	
Didion International Inc.*	1227	
Digitize Designs LLC	936	
DustMASTER Enviro Systems*	2028	
E		
Eirich Machines Inc.*	2218	
EKK Inc.	904	
Electric Controls & Systems Inc. (EC&S)*	1913	
Elektrim Motors	1113	
Elemental Metals*	2719	
Elkem Silicon Products*	1713	
ELM DOKUM MAKINELERI	1046	
Empire Systems Inc.	2639	
EMSCO Inc.*	1117	
Engis Corporation*	1907	
Epic Machine Inc.*	1948	
Equipment Manufacturers International Inc. (EMI)*	2111	
Eriez	2741	
Ervin Industries Inc.	2024	
ESI Group Inc.	911	
ETA Engineering Inc.	1929	
Everett Industries LLC*	539	
EZG Manufacturing*	1655	
F		
Fargowear Inc.	2350	
Ferroglobe	2715	
Ferrous Processing & Trading Co.	950	
Fill USA Inc.	2047	
Filtec Precision Ceramics	2255	
Finite Solutions Inc.*	1228	
Flexovit USA Inc.*	2936	

FLOW-3D CAST	2637	ITALCARRELLI	2829-2
Forte Tooling Technologies Nordstern Group*	1048	Italian Trade Agency (ITA)	2829
Foseco-Vesuvius	937	ITOCHU Ceratech Corp.	711
Foundry Educational Foundation (FEF)	549	IVI Inc.*	1204
Foundry Solutions & Design*	1619		
Foundry Solutions Metallurgical Services Inc.*	2736	J	
Foundry Technologies s.r.o.	2720	Jesse Garant Metrology Center	2806
FRC Global	815	Jinan Shengquan Group	
Fremont Flask Company	1051	Share-holding Co. Ltd. (SQ Group)	2148
		JME Technologies Inc.	806
G		JOEST Inc.*	2245
Gaylord Family Enterprises Inc.	2013	Joymark*	1820
Gemco Cast Metal Technology*	2830	Joyo Carbon Materials Co. Ltd.	2019
General Kinematics Corp.*	1414		
GFS Gravity SRL	2829-1	K	
Gibson Centri Tech Ltd.	1914	Kaesar Compressors Inc.	1149
Goff Inc.	2837	Kaka Industrial LLC	1850
Gradmatic Equipment Inc.	1906	KEYENCE Corporation of America	2819
Green Diamond Performance Materials*	851	King Tester Corp.*	636
Green Packaging Inc.*	821	Kodiak Group*	929
Griffin Tool Inc.	2146	Kore Mart Ltd.*	1847
Guangdong Kingstone Robot & Technology Co. Ltd.	940	Kuttner North America*	2145
Guardian Bandsaws*	2220		
Gudgeon Thermfire Intl. Inc.*	2336	L	
		LAEMPE REICH*	1337
H		Lanzhou Sunrising Ferroalloy Co. Ltd.	2555
HA Group*	1245	LECO Corporation*	1127
HeatTek Inc.	1005	Lianyungang Beautech Superfine Co. Ltd.	2340
Hebei Guoning Heavy Industry		LightSpeed Concepts Inc.*	537
Manufacturing Co. Ltd.	1747	Loramendi Inc.	1555
Hebei MaiShi Machinery & Equipment Co. Ltd.	2642	Low Carbon Metal Limited	745
Henan Suihui New Materials Co. Ltd.	1627	LPM SPA	2829-3
Henan Tuorui Abrasive Material Co. Ltd.	2836	LS Industries	2543
Henan Weiye New Materials Co. Ltd.	2525	Lucky Sound Commodities Supplying Inc.	951
Henschel Andromat Inc.*	1446		
Heraeus Electro-Nite Co.*	2537	M	
Herschel Products Co. Inc.	1845	Magaldi Technologies LLC*	1728
Hi-Vac	2649	MAGMA Foundry Technologies Inc.*	1829
Hickman, Williams & Company*	2446	Mancuso Chemicals Ltd.	1737
Hiller Carbon	905	Matthews Additive Technologies*	1925
Hirado Kinzoku Kogyo Co. Ltd.	1248	Maumee Pattern Company	2125
Hitachi High-Tech America	1150	MEC IND SRL	2829-4
Honsa Ergonomic Technologies*	1851	Metaltec Steel Abrasive Co.*	1022
Hoosier Pattern Inc.*	1455	Mflex Insulations	1749
Humtown Products*	637	Michigan Pneumatic Tool*	1006
Hunter Foundry Machinery Corporation*	2425	Miller and Company*	2513
HWI a member of Calderys*	928	Milwaukee Machine Tool Corp.	805
Hypertherm Inc.	1110	Miracle Steel*	1106
		Moffitt Corporation	1012
I		Molten Metal Equipment Innovations (MMEI)*	2507
IACMI - The Composites Institute	2447	Morgan Advanced Materials*	1054
Induction Iron Inc.*	1145	Mostardi Platt	648
Induction Technology Corp.*	920	MPM Infosoft Pvt. Ltd.*	1112
Inductotherm Corp.*	1537	MRO Resources	907
InterTest Inc.*	2149	Multi-Vac a Division of M & W Shops Inc.*	1144
IRB Inc.	1910		

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N

Nanjing Guhua Electromechanical Technology Co. Ltd.	2445
Nanjing NianDa Intelligent Equipment Technology Co. Ltd.	1354
Nederman MikroPul*	1016
New London Engineering	2937
Ningbo Jingzhi Mould Co. Ltd.	1045
Ningbo Yitailai Moulds Co. Ltd.	2347
Ningxia Carbonhel New Material Co. Ltd.	2615
Ningxia Hengtai International Trade Co. Ltd.	1254
Ningxia Megastar Co. Ltd.	910
Non-Ferrous Founders' Society	755
Norican Group: DISA ItalPresseGauss Monitizer SIMPSON StrikoWestofen Wheelabrator*	1936
NovaCast Solutions USA Inc.*	1815
Novis Works LLC*	1116
Nugent Sand	2044
Nutec Bickley	913

O

Omni	1029
Online Resources Inc.	2826
Opta Group	555
Oritech Solutions Pvt. Ltd.	1755
Otto Junker USA*	1729

P

PADNOS*	804
Palmer Mfg. & Supply Inc.*	2129
Pangborn LLC*	2437
Polymet Alloys Inc.	2250
POLYTEC USA Corp.	1855
ProFound Alloys LLC	1944
Progelta S R L	2829-5
Proservice Srl	2147
PushCorp*	737
Pyrotek Inc.	1611

Q

Q&F Engineering*	2311
Qingdao Huacan Heavy Industry Co. Ltd.	2624
Qinhuangdao Hongtong Machinery Co. Ltd.	2409
Quad City Safety*	547
Quigley Crucible R & S Co. Inc.*	1854

R

R Scheuchl America	1818
Rampf Group Inc.*	2629
REFCOTEC Inc.*	1737
Refractory & Insulation Supply Inc.*	1726
Reichmann & Sohn GmbH	2620
Reno Refractories Inc.*	2337
RHI Magnesita	2123
Rio Tinto*	2119
Ruf Briquetting Systems	713

S

Saint-Gobain Ceramics & Plastics	2706
Savelli Technologies S r l	2829-6
Saveway USA	1724
Scheuch/Camcorp/Schust	1922
Scientific Dust Collectors*	1751
Scott Sales Co.*	1355
Secat Inc.	1111
SELEE Corporation*	811
SGM Srl	2829-7
Shandong Hengqiao Energy Industrial Co. Ltd.	845
Shells Inc.	945
Shining 3D Technology Inc.	812
Sichuan Heyi Electrical Technology Co. Ltd.	2251
Sichuan High Casting Materials Ltd.	1250
SiiF	2111
Silver Needle Inc.	2110
Sintex Minerals & Services Inc.*	829
Sinto America*	1137
SIR SPA*	2829-8
Smart Sand*	819
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
Specialty Foundry Products Inc.	1219
Spectro Alloys Corporation	1011
Spectro Analytical Instruments*	1719
Steel Grip Inc.	2523
Storey Foundry Assistance/MCM	917
Stratasy	1004
Summit Foundry Systems Inc.*	1511
Sun Metalon Inc.*	747
Sun-Tec Corporation	954
Supreme Cores*	810
Suzhou Weijing Automation Co. Ltd.	1549
Suzhou Xingye Material Technology Co. Ltd.	2257
Synchro ERP Ltd.*	705
SYSCON Sensors*	2237

T

TEMC Metal & Chemical Corp.*	1946
TES-SAN LTD STI	1044
Texan Minerals and Chemicals LLC*	1912
The Bright World of Metals - Messe Duesseldorf	2621
The Hill & Griffith Co.*	2529
Thermo Fisher Scientific	1625
Thermotec LLC*	1846
Thermtronix Corporation	2454
Tianjin Shengtong Metallurgical Technology Co. Ltd.	2349
Transmet Corporation	1013
Trebi Srl*	2829-9
Trialco Aluminum LLC	2244

U

U-Metco Inc.	1010
Unimetal USA Inc-Larpen Metallurgical Service	2018
United Alloys R & D Inc.	709
United Refractories Co.	1819
Universal Welding & Engineering	809
University of Northern Iowa	650
USMFG Inc.*	909

V

Verder Scientific Inc.	1810
Versatile Equipment Pvt. Ltd.	2519
VibraPro	1055
VIBROPROCESS SRL	2829-10
VIBROTECH Engineering USA LLC	1951
ViewTech Borescopes	918
Viking Technologies*	1707
Viking Wheel Blast Systems*	1428
VisiConsult X-ray Solutions Americas Corp.	2051
Visiomet	3024
VJ Technologies Inc.*	1107
Voxeljet America Inc.*	2029
Vulkan Blast Shot Technology	923

W

Waltz-Holst Co.	807
Washington Mills	827
Weiler Abrasives	2613
Whiting Equipment Canada Inc.*	1823
Winoa USA (W Abrasives)	1007

Y

Youngstown State University	640
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Z

ZEISS Industrial Quality Solutions	1918
Zhejiang Wanfeng Technology Development Co. Ltd.	649
Zhengzhou Zhenzhong Fused New Material Co. Ltd.	1945
Zibo Taa Metal Technology Co. Ltd.	2413
Zibo Tongpu Vacuum Equipment Co. Ltd.	1147
Ziheng Tianjin Industry Co. Ltd.	2155
Zijiang Furnace Nanjing Co. Ltd.	1255
ZIRCAR Ceramics Inc.	1745

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MADE IN THE USA

Goff Inc.	2837
Henschel Andromat Inc.*	1446
Hi-Vac	2649
Hirado Kinzoku Kogyo Co. Ltd.	1248
JOEST Inc.*	2245
LS Industries	2543
Multi-Vac a Division of M & W Shops Inc.*	1144
New London Engineering	2937
Pangborn LLC*	2437
PushCorp*	737
Q&F Engineering*	2311
R Scheuchl America	1818
Reichmann & Sohn GmbH	2620
SGM Srl	2829-07
Suzhou Weijing Automation Co. Ltd.	1549
Trebi Srl*	2829-09
Viking Wheel Blast Systems*	1428
Weiler Abrasives	2613

Engineering/Capital Equipment - Engineering

A W Bell Machinery*	1155
Advanced Material Solutions*	2707
Advanced Pattern Works LLC*	912
Advent Silica Materials LLC	2241
Allied Mineral Products Inc.*	1649
Automation Systems & Design Inc.*	2046
Carrier Vibrating Equipment Inc.*	1525
Conveyor Dynamics*	1227
Del Sol Industrial Services Inc.	2611
Didion International Inc.*	1227
Eirich Machines Inc.*	2218
EKK Inc.	904
Elektrim Motors	1113
ESI Group Inc.	911
Fill USA Inc.	2047
Forte Tooling Technologies Nordstern Group*	1048
Foundry Educational Foundation (FEF)	549
Foundry Solutions & Design*	1619
Gemco Cast Metal Technology*	2830
Hi-Vac	2649
IACMI - The Composites Institute	2447
JOEST Inc.*	2245
Kodiak Group*	929
Kuttner North America*	2145
LS Industries	2543
Maumee Pattern Company	2125
Mflex Insulations	1749
Nederman MikroPul*	1016
Novis Works LLC*	1116
Online Resources Inc.	2826
Oritech Solutions Pvt. Ltd.	1755
Palmer Mfg. & Supply Inc.*	2129
Proservice Srl	2147
Pyrotek Inc.	1611
R Scheuchl America	1818
Reichmann & Sohn GmbH	2620

Savelli Technologies S r l	2829-06
Sinto America*	1137
SIR SPA*	2829-08
Storey Foundry Assistance/MCM	917
Summit Foundry Systems Inc.*	1511
TES-SAN LTD STI	1044
The Schaefer Group Inc.*	2055
Universal Welding & Engineering	809
Versatile Equipment Pvt. Ltd.	2519
VibraPro	1055
VIBROPROCESS SRL	2829-10
Visiometa	3024
Whiting Equipment Canada Inc.*	1823

Engineering/Capital Equipment - Environmental, Health and Safety

Albarrie Environmental Services Ltd.*	1108
Chicago Protective Apparel*	638
Compass Engineering Corp.	2818
DustMASTER Enviro Systems*	2028
Foundry Solutions & Design*	1619
Gradmatic Equipment Inc.	1906
Guardian Bandsaws*	2220
Henschel Andromat Inc.*	1446
Hi-Vac	2649
Hirado Kinzoku Kogyo Co. Ltd.	1248
Kuttner North America*	2145
Moffitt Corporation	1012
Mostardi Platt	648
Multi-Vac a Division of M & W Shops Inc.*	1144
Nederman MikroPul*	1016
POLYTEC USA Corp.	1855
R Scheuchl America	1818
Scientific Dust Collectors*	1751
Sinto America*	1137
Steel Grip Inc.	2523
Sun Metalon Inc.*	747
USI Insurance Services	751
Waltz-Holst Co.	807
Zibo Taa Metal Technology Co. Ltd.	2413

Engineering/Capital Equipment - Heat Treatment

Anhui Ningguo Hantai New Materials Limited Company	2737
Can-Eng Furnaces International Ltd.	1154
CCEWOOL Thermomax Inc.	1813
Clansman Dynamics USA*	643
LECO Corporation*	1127
Nanjing NianDa Intelligent Equipment Technology Co. Ltd.	1354
Nutec Bickley	913
Oritech Solutions Pvt. Ltd.	1755
Sun-Tec Corporation	954
Zijiang Furnace Nanjing Co. Ltd.	1255



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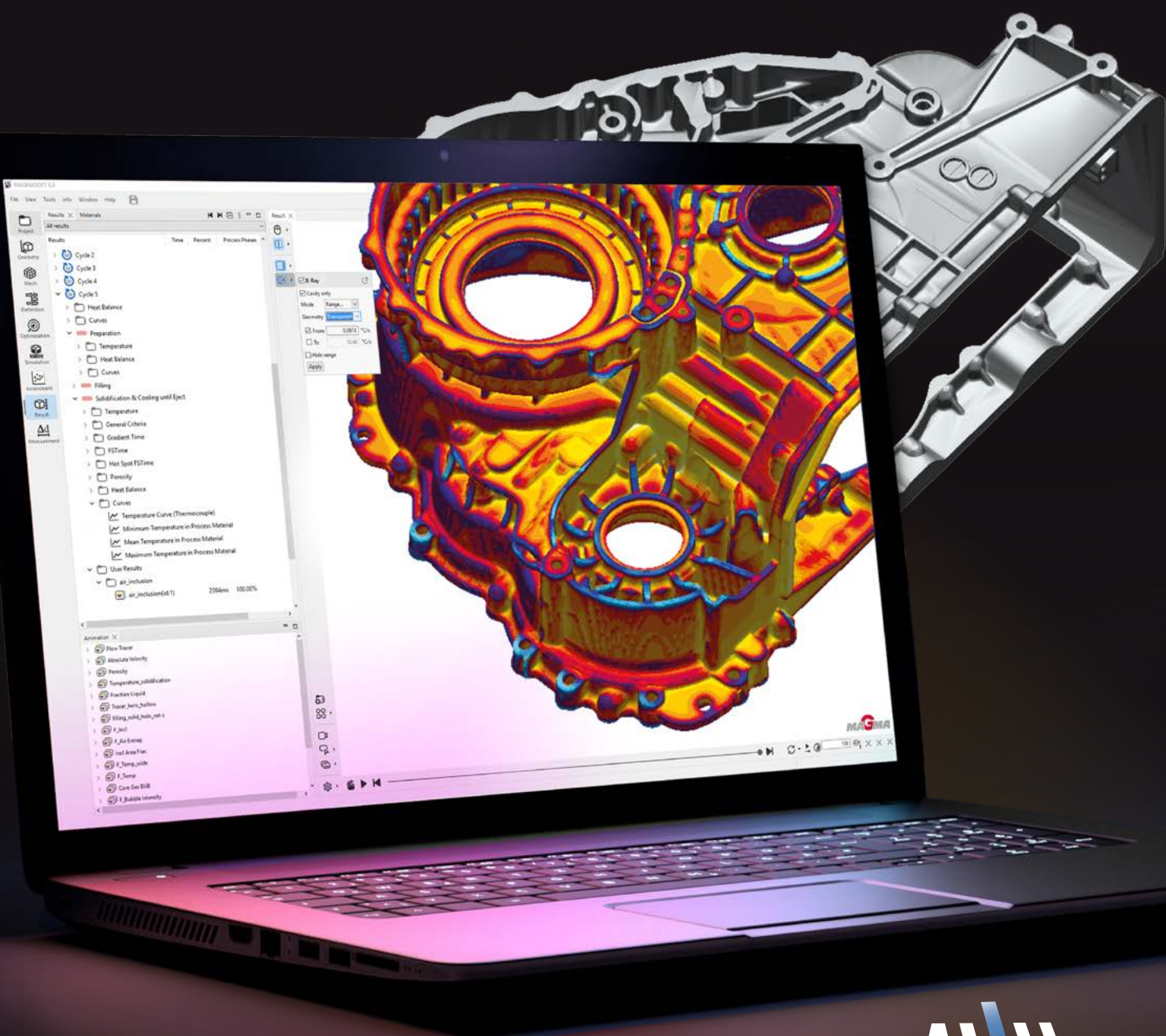
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Engineering/Capital Equipment - Investment Casting Equipment & Accessories

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Abrasive Technology*	1919
Advent Silica Materials LLC	2241
Anhui Ningguo Hantai New Materials Limited Company	2737
Corona Cadinhos E Refratarios	946
Elektrim Motors	1113
Eriez	2741
ESI Group Inc.	911
Everett Industries LLC*	539
EZG Manufacturing*	1655
Foundry Technologies s.r.o.	2720
Fill USA Inc.	2047
Filtec Precision Ceramics	2255
Gibson Centri Tech Ltd.	1914
Henschel Andromat Inc.*	1446
Hypertherm Inc.	1110
JME Technologies Inc.	806
Multi-Vac a Division of M & W Shops Inc.*	1144
New London Engineering	2937
POLYTEC USA Corp	1855
R Scheuchl America	1818
SIR SPA*	2829-08
Tianjin Shengtong Metallurgical Technology Co. Ltd.	2349

Engineering/Capital Equipment - Maintenance

Albarrie Environmental Services Ltd.*	1108
Anhui Ningguo Hantai New Materials Limited Company	2737
Arcos-USA	914
Best Performance Inc.	3018
Bronco Blast*	1104
Compass Engineering Corp.	2818
Daubert Cromwell*	1017
Elektrim Motors	1113
Empire Systems Inc.	2639
EMSCO Inc.*	1117
Epic Machine Inc.*	1948
Equipment Manufacturers International Inc. (EMI)*	2111
Flexovit USA Inc.*	2936
Hypertherm Inc.	1110
IVI Inc.*	1204
JME Technologies Inc.	806
Multi-Vac a Division of M & W Shops Inc.*	1144
Nederman MikroPul*	1016
New London Engineering	2937
Shining 3D Technology Inc.	812
SIR SPA*	2829-08
ViewTech Borescopes	918
Waltz-Holst Co.	807

Engineering/Capital Equipment - Patternmaking & Tooling

Advanced Pattern Works LLC*	912
Advanced Tooling Inc.	2727
Epic Machine Inc.*	1948
Forte Tooling Technologies Nordstern Group*	1048
Griffin Tool Inc.	2146
Guardian Bandsaws*	2220
Hoosier Pattern Inc.*	1455
Loramendi Inc.	1555
Maumee Pattern Company	2125
Michigan Pneumatic Tool*	1006
Milwaukee Machine Tool Corp.	805
Ningbo Yitailai Moulds Co. Ltd.	2347
Online Resources Inc.	2826
Q&F Engineering*	2311
Rampf Group Inc.*	2629
Texan Minerals and Chemicals LLC*	1912

Engineering/Capital Equipment - Permanent Mold Equipment & Accessories

Anhui Ningguo Hantai New Materials Limited Company	2737
ATD Engineering & Machine*	2729
Epic Machine Inc.*	1948
Griffin Tool Inc.	2146
Maumee Pattern Company	2125
New London Engineering	2937
R Scheuchl America	1818
Zhengzhou Zhenzhong Fused New Material Co. Ltd.	1945

Engineering/Capital Equipment - Software

AMV Soluciones S L	855
B&L Information Systems LLC*	1629
EKK Inc.	904
ESI Group Inc.	911
Finite Solutions Inc.*	1228
FLOW-3D CAST	2637
MAGMA Foundry Technologies Inc.*	1829
MPM Infosoft Pvt. Ltd.*	1112
Online Resources Inc.	2826
Reichmann & Sohn GmbH	2620
Shining 3D Technology Inc.	812
Sinto America*	1137
SIR SPA*	2829-08
Storey Foundry Assistance/MCM	917
Visiometa	3024

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

Advanced Pattern Works LLC*	912
Albarrie Environmental Services Ltd	1108
AFS - The Hub*	320
Arcos-USA	914
Best Performance Inc.	3018
Daubert Cromwell*	1017
EMSCO Inc.*	1117
Epic Machine Inc.*	1948
Fill USA Inc.	2047
Guangdong Kingstone Robot & Technology Co. Ltd.	940
Henschel Andromat Inc.*	1446
Hirado Kinzoku Kogyo Co. Ltd.	1248
Hypertherm Inc.	1110
ITALCARRELLI	2829-02
Kaka Industrial LLC	1850
Milwaukee Machine Tool Corp.	805
Nanjing Guhua Electromechanical Technology Co. Ltd.	2445
Nederman MikroPul*	1016
New London Engineering	2937
Non-Ferrous Founders' Society	755
Online Resources Inc.	2826
POLYTEC USA Corp.	1855
PushCorp*	737
Q&F Engineering*	2311
Ruf Briquetting Systems	713
Saveway USA	1724
SIR SPA*	2829-08
The Bright World of Metals - Messe Duesseldorf	2621
VisiConsult X-ray Solutions Americas Corp.	2051
Zhejiang Wanfeng Technology Development Co. Ltd.	649

Melting/Melting Quality - Casting Quality & Testing

Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519
Allied Mineral Products Inc.*	1649
AMV Soluciones S L	855
Carrier Vibrating Equipment Inc.*	1525
Foundry Solutions Metallurgical Services Inc.*	2736
FRC Global	815
Hitachi High-Tech America	1150
Inductotherm Corp.*	1537
Molten Metal Equipment Innovations (MMEI)*	2507
MPM Infosoft Pvt. Ltd.*	1112
Ningxia Carbonhel New Material Co. Ltd.	2615
Qinhuangdao Hongtong Machinery Co. Ltd.	2409
Shandong Hengqiao Energy Industrial Co. Ltd.	845
Shining 3D Technology Inc.	812
SYSCON Sensors*	2237
Youngstown State University	640

Melting/Melting Quality - Ferrous Melt Quality

Diamant Polymers Inc.	1811
Didion International Inc.*	1227
Hiller Carbon	905
Hitachi High-Tech America	1150
Joyo Carbon Materials Co. Ltd.	2019
Ningbo Jingzhi Mould Co. Ltd.	1045
Ningxia Carbonhel New Material Co. Ltd.	2615
Proservice Srl	2147
Sichuan Heyi Electrical Technology Co. Ltd.	2251
U-Metco Inc.	1010

Melting/Melting Quality - Ferrous Melting

Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519
AMAFOND	2829
AMV Soluciones S L	855
Bartley Crucible & Refractories Inc.	2246
Empire Systems Inc.	2639
Henan Weiye New Materials Co. Ltd.	2525
Induction Technology Corp.*	920
Inductotherm Corp.*	1537
Joymark*	1820
Kodiak Group*	929
Low Carbon Metal Limited	745
Ningxia Carbonhel New Material Co. Ltd.	2615
Quigley Crucible R & S Co. Inc.*	1854
RHI Magnesita	2123
Saint-Gobain Ceramics & Plastics	2706
Silver Needle Inc.	2110
Texan Minerals and Chemicals LLC*	1912
The Hill & Griffith Co.*	2529
Unimetal USA Inc-Larpen Metallurgical Service	2018
United Refractories Co.	1819
Washington Mills	827
Whiting Equipment Canada Inc.*	1823

Melting/Melting Quality - Ferrous Pouring

Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519
Bartley Crucible & Refractories Inc.	2246
Filtec Precision Ceramics	2255
Hebei Guoning Heavy Industry Manufacturing Co. Ltd.	1747
Inductotherm Corp.*	1537
IRB Inc.	1910
Kodiak Group*	929
Kuttner North America*	2145
Ningxia Carbonhel New Material Co. Ltd.	2615
Quigley Crucible R & S Co. Inc.*	1854
Sinto America*	1137
The Hill & Griffith Co.*	2529
United Refractories Co.	1819
Whiting Equipment Canada Inc.*	1823

Melting/Melting Quality - Nonferrous Melt Quality

AMV Soluciones S L	855
Diamant Polymers Inc.	1811
Foundry Solutions Metallurgical Services Inc.	2736
Hitachi High-Tech America	1150
Molten Metal Equipment Innovations (MMEI)*	2507
Morgan Advanced Materials*	1054
Nanjing Guhua Electromechanical Technology Co. Ltd.	2445
Palmer Mfg. & Supply Inc.*	2129

Melting/Melting Quality - Nonferrous Melting

Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519
AMAFOND	2829
AMV Soluciones S L	855
Applied Foundry Solutions	2619
Bartley Crucible & Refractories Inc.	2246
Henan Weiye New Materials Co. Ltd.	2525
Induction Technology Corp.*	920
Inductotherm Corp.*	1537
Molten Metal Equipment Innovations (MMEI)*	2507
Qinhuangdao Hongtong Machinery Co. Ltd.	2409
Quigley Crucible R & S Co. Inc.*	1854
RHI Magnesita	2123
Saint-Gobain Ceramics & Plastics	2706
Scott Sales Co.*	1355
Sichuan High Casting Materials Ltd.	1250
United Refractories Co.	1819
Whiting Equipment Canada Inc.*	1823
ZIRCAR Ceramics Inc.	1745

Melting/Melting Quality - Nonferrous Pouring

A W Bell Machinery*	1155
Ajax TOCCO Magnethermic Corp - Pillar Induction*	1519
Bartley Crucible & Refractories Inc.	2246
Foundry Solutions Metallurgical Services Inc.	2736
Inductotherm Corp.*	1537
LPM SPA	2829-03
Molten Metal Equipment Innovations (MMEI)*	2507
Palmer Mfg. & Supply Inc.*	2129
Polymet Alloys Inc.	2250
Qinhuangdao Hongtong Machinery Co. Ltd.	2409
Quigley Crucible R & S Co. Inc.*	1854
Scott Sales Co.*	1355
Sinto America*	1137
The Hill & Griffith Co.*	2529
The Schaefer Group Inc.*	2055
Thermtronix Corporation	2454
United Refractories Co.	1819
Whiting Equipment Canada Inc.*	1823

Molding Processes - Centrifugal

FLOW-3D CAST	2637
Hebei MaiShi Machinery & Equipment Co. Ltd.	2642
REFCOTEC Inc.*	1737
Zibo Taa Metal Technology Co. Ltd.	2413

Molding Processes - Chemically-Bound Sand

Conveyor Dynamics*	1227
Del Sol Industrial Services Inc.	2611
Didion International Inc.*	1227
Fargowear Inc.	2350
Gemco Cast Metal Technology*	2830
HA Group*	1245
Henan Tuorui Abrasive Material Co. Ltd.	2836
IRB Inc.	1910
JOEST Inc.*	2245
Kuttner North America*	2145
Palmer Mfg. & Supply Inc.*	2129
Mancuso Chemicals Ltd.	1737
Novis Works LLC*	1116
REFCOTEC Inc.*	1737
Sinto America*	1137
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
Suzhou Xingye Material Technology Co. Ltd.	2257
TEMC Metal & Chemical Corp.*	1946

Molding Processes - Continuous

Best Performance Inc.	3018
TES-SAN LTD STI	1044
Zijiang Furnace Nanjing Co. Ltd.	1255

Molding Processes - Diecasting

AMAFOND	2829
Diamant Polymers Inc.	1811
FLOW-3D CAST	2637
GFS Gravity SRL	2829-01
Griffin Tool Inc.	2146
Henan Tuorui Abrasive Material Co. Ltd.	2836
LPM SPA	2829-03
Magaldi Technologies LLC*	1728
Progelta S R L	2829-05
Qinhuangdao Hongtong Machinery Co. Ltd.	2409
Shandong Hengqiao Energy Industrial Co. Ltd.	845
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
TEMC Metal & Chemical Corp.*	1946
The Hill & Griffith Co.*	2529

Molding Processes - Green Sand

Conveyor Dynamics*	1227
Didion International Inc.*	1227
ELM DOKUM MAKINELERI	1046
Empire Systems Inc.	2639
Equipment Manufacturers	
International Inc. (EMI)*	2111
Forte Tooling Technologies Nordstern Group*	1048
Gemco Cast Metal Technology*	2830
Green Diamond Performance Materials*	851
HA Group*	1245
Henan Weiye New Materials Co. Ltd.	2525
JOEST Inc.*	2245
Joymark*	1820
Kodiak Group*	929
Kuttner North America*	2145
MPM Infosoft Pvt. Ltd.*	1112
Proservice Srl	2147
Q&F Engineering*	2311
Qingdao Huacan Heavy Industry Co. Ltd.	2624
REFCOTEC Inc.*	1737
Savelli Technologies S r l	2829-06
Sinto America*	1137
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
Summit Foundry Systems Inc.*	1511
TEMC Metal & Chemical Corp.*	1946
Texan Minerals and Chemicals LLC*	1912
Thermotec LLC*	1846
VIBROPROCESS SRL	2829-10
Ziheng Tianjin Industry Co. Ltd.	2155

Molding Processes - Investment

A W Bell Machinery*	1155
Advent Silica Materials LLC	2241
FLOW-3D CAST	2637
HA Group*	1245
Italian Trade Agency	2829

Molding Processes - Lost Foam

HA Group*	1245
Hebei Guoning Heavy Industry Manufacturing Co. Ltd.	1747
REFCOTEC Inc.*	1737
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
TEMC Metal & Chemical Corp.*	1946
Zibo Tongpu Vacuum Equipment Co. Ltd.	1147

Molding Processes - Permanent Mold

ATD Engineering & Machine*	2729
CMH Manufacturing Co.	2718
FLOW-3D CAST	2637
Forte Tooling Technologies Nordstern Group*	1048
Foundry Solutions Metallurgical Services Inc.	2736
Gemco Cast Metal Technology*	2830
Griffin Tool Inc.	2146
HA Group*	1245
Ningbo Jingzhi Mould Co. Ltd.	1045
TEMC Metal & Chemical Corp.*	1946
The Hill & Griffith Co.*	2529

Molding Processes -**Vacuum Processes (sand or metal mold)**

Advent Silica Materials LLC	2241
Kaesar Compressors Inc.	1149
REFCOTEC Inc.*	1737
Sinto America*	1137
Zhengzhou Zhenzhong Fused New Material Co. Ltd.	1945

Sand Mold/Core Making - Additive Manufacturing

Chesapeake Specialty Products*	841
ESI Group Inc.	911
HA Group*	1245
Henan Weiye New Materials Co. Ltd.	2525
Hoosier Pattern Inc.*	1455
Humtown Products*	637
Jinan Shengquan Group Share-holding Co. Ltd. (SQ Group)	2148
LightSpeed Concepts Inc.*	537
MPM Infosoft Pvt. Ltd.*	1112
Product Development & Analysis (PDA) LLC	820
Shining 3D Technology Inc.	812
Sichuan High Casting Materials Ltd.	1250
Suzhou Xingye Material Technology Co. Ltd.	2257

Sand Mold/Core Making - Core Machines

AMAFOND	2829
ATD Engineering & Machine*	2729
CASTEC Inc.	808

Equipment Manufacturers

International Inc. (EMI)*	2111
Foundry Technologies s.r.o.	2720
Gaylord Family Enterprises Inc.	2013
Hebei Guoning Heavy Industry Manufacturing Co. Ltd.	1747
LAEMPE REICH*	1337
Loramendi Inc.	1555
MEC IND SRL	2829-04
Palmer Mfg. & Supply Inc.*	2129
Proservice Srl	2147
Qingdao Huacan Heavy Industry Co. Ltd.	2624
Sichuan High Casting Materials Ltd.	1250
Sinto America*	1137

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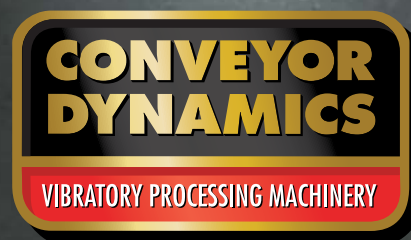


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Sand Mold/Core Making - Coremaking

Best Performance Inc.	3018
CARBO*	2738
Hoosier Pattern Inc.*	1455
Humtown Products*	637
IRB Inc.	1910
Joymark*	1820
Kore Mart Ltd.*	1847
Mancuso Chemicals Ltd.	1737
Novis Works LLC*	1116
Nugent Sand	2044
Q&F Engineering*	2311
Rampf Group Inc.*	2629
Shells Inc.	945
Southeastern Foundry Products & Foundry Coatings Inc.*	1807
Supreme Cores*	810
Thermotec LLC*	1846

Sand Mold/Core Making - Rapid Prototyping

Hebei MaiShi Machinery & Equipment Co. Ltd.	2642
Hoosier Pattern Inc.*	1455
Humtown Products*	637
Maumee Pattern Company	2125
Qingdao Huacan Heavy Industry Co. Ltd.	2624

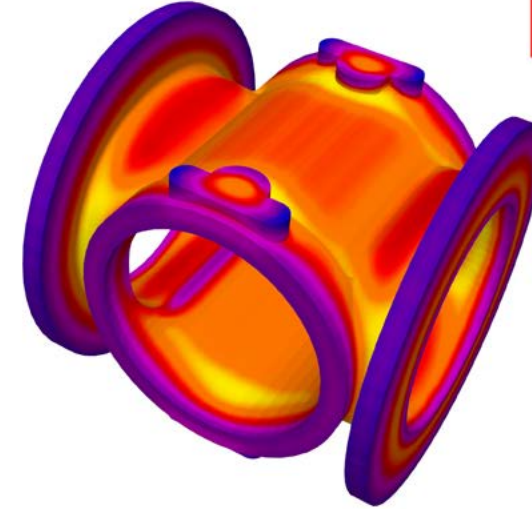
Sand Mold/Core Making - Sand Molding Equipment

ATD Engineering & Machine*	2729
Best Performance Inc.	3018
Conveyor Dynamics*	1227
Del Sol Industrial Services Inc.	2611
Eirich Machines Inc.*	2218
Empire Systems Inc.	2639
Fremont Flask Company	1051
Magaldi Technologies LLC*	1728
MEC IND SRL	2829-04
Novis Works LLC*	1116
Qingdao Huacan Heavy Industry Co. Ltd.	2624
Sinto America*	1137
TES-SAN LTD STI	1044
Texan Minerals and Chemicals LLC*	1912
Zibo Tongpu Vacuum Equipment Co. Ltd.	1147
Ziheng Tianjin Industry Co. Ltd.	2155

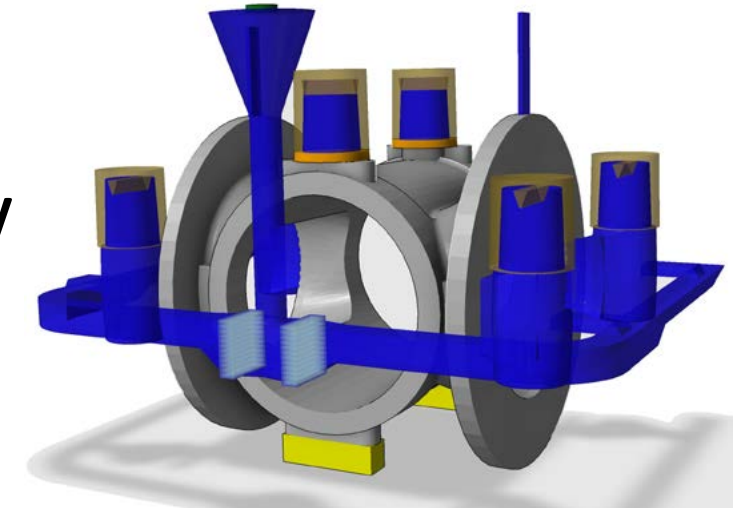
Sand Mold/Core Making - Sand Preparation & Testing

AMAFOND	2829
Badger Mining Corporation*	844
Covia Corporation*	837
Didion International Inc.*	1227
DustMASTER Enviro Systems*	2028
Eirich Machines Inc.*	2218
Empire Systems Inc.	2639
Fargowear Inc.	2350
Gemco Cast Metal Technology*	2830
HA Group*	1245
Henan Tuorui Abrasive Material Co. Ltd.	2836
ITOCHU Ceratech Corp.	711
JOEST Inc.*	2245
Kodiak Group*	929
Mancuso Chemicals Ltd.	1737
Novis Works LLC*	1116
Qingdao Huacan Heavy Industry Co. Ltd.	2624
REFCOTEC Inc.*	1737
Savelli Technologies S r l	2829-06
Sinto America*	1137
Versatile Equipment Pvt. Ltd.	2519
VIBROPROCESS SRL	2829-10

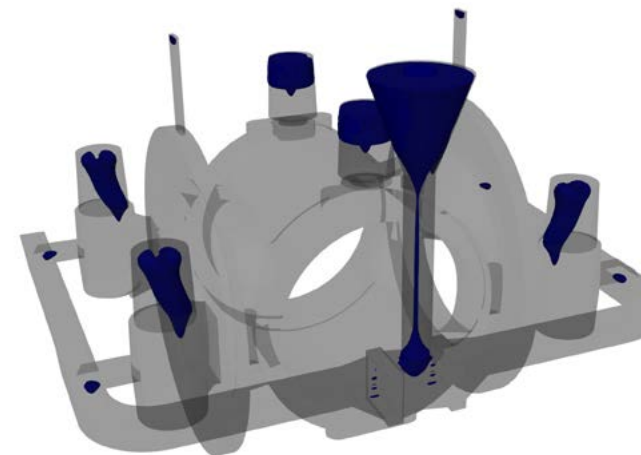
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<https://www.abrasive-tech.com/>
(740) 548-4100

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Best Performance Inc. is a supplier of replacement parts for all No Bake Sand Foundry equipment, specializing in Continuous Mixer Blades and Driveshafts. Best Performance Inc. is also the manufacturer of the Bulk Material Lift, a vertical material conveyor that reduces degradation of materials, increases efficiency and flow rate, reduces wear, and helps improve the safety of the workplace. At Best Performance Inc. we strive to meet all the needs of our customers. We are a service driven company with our own fabrication and machine shops for production runs or custom parts and assemblies. Supplier

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<http://www.blaschceramics.com/>
(518) 436-1263

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West Allis, WI 53214-4960
<http://www.bct-us.com/>
(262) 785-7577

Blast Cleaning Technologies designs and manufactures heavy-duty shot blast systems in the USA. We offer replacement parts, upgrades and technical service for all makes and models of shotblast systems. Our engineered upgrades improve blast wheels, separators, elevators and work handling systems to boost production, enhance cycle times and increase maintenance efficiency. BCT has expanded our operations with a new world-class captive foundry dedicated to supporting our customers' shot blast needs. Contact us at 877-355-7577 or sales@bct-us.com.

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(269) 962-2231

Can-Eng Furnaces International Ltd. **1154**

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Canada
<http://www.can-eng.com>
(905) 356-1327

CAN-ENG, established in 1964, is a privately held ISO 9001:2015 certified company with its head office and mfg. facility located in Niagara Falls, thirty minutes from Buffalo, NY and Toronto. CAN-ENG is easily accessible from anywhere in the world to service globally. CAN-ENG designs & manufactures thermal processing equipment for ferrous/non-ferrous products for automotive, aerospace, forging & foundry mfg. industries. CAN-ENG focuses on the development of high volume continuous Fastener Heat Treatment Systems for safety critical, high value added products.

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<http://www.ccmallc.com>
(800) 833-2200

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D**Danisun International Materials Co. Limited 1949**

Room 403, Twin Towers Building B
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Songjiang District, Shanghai 201612
China

<http://www.danisun.com>
+86 13501674625

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Filtec Precision Ceramics **2255**

Rm 1301, T5 Building, No26, Jihua 1st
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China
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Filtec Precision Ceramics Co., Ltd. (In short: Filtec) launched in April 2005, from the historical city Foshan, Guangdong, China. We specialized in manufacturing consumable engineering ceramics and unique refractory products for the foundry industry, metallurgical industry, air-purification, heat treatment area, etc. With more than 20 years of experience, our products have been used

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<http://www.fefinc.org>
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FEF strengthens the metalcasting industry by supporting unique partnerships among students, educators, and industry, helping today's students become tomorrow's leaders through scholarship and program support. FEF provides opportunities for students to meet and network with industry professionals and supports 30+ university programs that have an experienced Key Professor who develops students in technical skills and hands-on curriculum in a working foundry laboratory. FEF is also engaging students at the high school level for career exploration by bringing metalcasting into the classroom.


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Foundry Technologies s.r.o. **2720**

Martinská 360/2,
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<http://www.foundry-technologies.eu>
+393455506224

Foundry Technologies s.r.o. is active in the design and manufacturing of foundry equipment specifically in the No-Bake sector The main activities are:

- Foundry engineering for single department up to complete foundries

- Plant layout design
- Detailed machine engineering
- Single machine up to turnkey complete systems delivery
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<https://www.frcglobal.com/>
(800) 609-5711

FRC Global supplies refractories, electrodes, and high temperature combustion systems for the metals industries.

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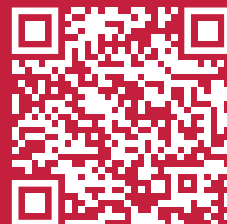
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GFS Gravity SRL 2829-1

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Gibson Centri Tech Ltd. 1914

Hilltop Works Trent Valley Industrial Estate Eastern Ave
Lichfield, Staffordshire WS13 6UY
United Kingdom
<http://www.gibsoncentritech.com>
+44 (0) 1543418 701

Gibson Centri Tech Limited is acknowledged as one of the leading manufacturers of technologically advanced centrifugal casting machines. Established in 1980 by Douglas and Martin Gibson, we have remained at the forefront of centrifugal casting systems. We manufacture a wide range of horizontal, vertical and dual face plate machines. These centrifugal casting machines are capable of producing castings for a variety of applications including roll making, cylinder liners, reformer tubes, pipes, bearings and bushes. All of our centrifugal casting machines are designed and manufactured in house.

Goff Inc. 2837

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Gradmatic Equipment Inc. 1906

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<http://www.gradmatic.com>
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(541) 874-3111

Green Diamond Performance Materials is the leading manufacturer of Foundry Sands, leading the industry with innovation, quality, performance, and unsurpassed customer support for more than 60 years. Our mission is to create the best products using the industry's most advanced technology while single-sourcing from our 10-million-ton high-grade magnesium orthosilicate reserve in Riddle, Oregon. Green Diamond abrasives are engineered for superior performance, combining hardness, angularity, and precision particle gradation to deliver cost-saving efficiency, cleanliness, and consistency.

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(215) 368-7265

Griffin Tool Inc. 2146

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<http://www.griffintool.com>
(269) 429-4077

At Griffin Tool, we're a family-run company whose business is trim dies. We specialize in the design and fabrication of trim dies for the die cast and foundry industries. Our sales and engineering staff all have real tool making experience. This gives us the ability to serve

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Guangdong Kingstone Robot & Technology Co. Ltd. **940**

Unit 303, Block 77, LIHE Technology Industry Center, No.33 South Information Avenue, Shishan Town, Nanhai Foshan, Guangdong 528200
China

Founded in 2010, Kingstone Robot is a high-tech enterprise which focuses on researching and developing of software and hardware systems for robotic grinding & polishing system and provides turnkey solutions for customers. Kingstone has established strategic cooperation partnerships with world-class robotic companies, such as FANUC, KUKA, and ABB. Kingstone provide customers with automatic control system of polishing in different industries. The products are widely used in sanitary ware kitchen, automobile and motorcycle parts, building hardware, sports equipment.

Guardian Bandsaws* **2220**

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<https://www.guardianbandsaw.com/>
(402) 708-7199

Gudgeon Thermfire Intl. Inc.* **2336**

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London, ON N6M 1A1
<http://www.gudgeon.on.ca>
(519) 451-5320

H

HA Group* **1245**

630 Oakmont Ln.
Westmont, IL 60559
<http://www.ha-international.com>

HA Group is the leading supplier to the North American foundry industry. We specialize in innovative core and mold production solutions, striving to enhance the metal casting sector through high-quality, technically superior products and services. Our commitment extends to environmental responsibility, employee safety, and profitable growth for our shareholders. Beyond products, HA Group excels in delivering comprehensive services to maximize foundry operations. Our Technical Service team, known for its expertise and experience, supports clients in achieving optimal product performance.

HeatTek Inc. **1005**

W1285 Industrial Dr.
Ixonia, WI 53036
(262) 569-7410

Hebei Guoning Heavy Industry Manufacturing Co. Ltd. **1747**

1101, Block C, Tianshan Galaxy Plaza,
No.358 Yuhua East Road, High tech Zone
Shijiazhuang 050000
China
<http://www.gnepc.com>
+86 13231138565

Hebei Guoning Heavy Industry Manufacturing Co.,Ltd.,located inShijiazhuang City,Hebei Province,specializes in the production,research and development,and sales of lost foam casting equipment.We provide customers with a complete set of lost foam castingequipment,lost foam production line design planning,and processtraining.We adhere to the principle of "taking casting processrequirements as the guide and ensuring process with exclusivedesign solutions"!its products are exported to more than 20countries and regions,And has been awarded the title of "High Quality Supplier" by customers.

Hebei MaiShi Machinery & Equipment Co. Ltd. **2642**

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China

With advanced and high accuracy 3D printers, MaiShi 3D Printing helps foundries to achieve production-grade casted parts, faster and more affordably than ever before, with zero tooling. We print patterns to cast pump parts, valve parts, hydraulic parts and etc.

Henan Suihui New Materials Co. Ltd. **1627**

Room 2704, Block B, Wanda Plaza Office Building,
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Zhengzhou, Henan
China
<https://sanhuiabrasive.com/>
0086-371-5683130

Sanhui Abrasives Co. Specializes in producing black silicon carbide, green silicon carbide, brown fused alumina, white fused alumina, chrome (pink) fused alumina, and engineering applications of high-quality abrasives for customers around the world, with advanced air grading machine, pickling pure water fine rinsing technology, our abrasives are widely used in sandblasting surface treatment, sand belt, coated abrasive tools, sponge abrasive tools, buffing & polishing wheels and other fields.

Henan Tuorui Abrasive Material Co. Ltd. **2836**

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Zhengzhou, Henan 450041
China
<http://www.rnabrasives.com/>
0086-371-63371160

Henan Tuorui Abrasive Material Co.,Ltd is the professional supplier of abrasives and refractory material.We are available to produce according to America ANSI standard, Japan JIS standard,Europe FEPA standard,etc. With more than 15 years experience of exporting,our products are mainly export to Europe, India, South Korea, Japan, Turkey,etc. Our main products include Brown Fused Alumina, White Fused Alumina, Tabular Alumina, Low sodium white fused alumina, Silicon Carbide and Fused zircon alumina for industries in coated & bonded abrasives, grinding, polishing, sandblasting, refractory material and more.

Henan Weiye New Materials Co. Ltd. **2525**

No.6,High-tech Torch Park, No. 666 Shenma Avenue
Pingdinshan, Henan 467000
China
<http://www.shengshiweiye.cn>
375-3990 x699

Founded in 2009, Henan Weiye New Materials Co., Ltd is a modern enterprise integrating R&D, production, sales and service with 38 staff at moment. As one of the professional and leading foundry materials manufacturers and suppliers in China, we have been recognized as a national high-tech enterprise, provincial gazelle enterprise and the drafting unit of recarburizer industry standard and we have a provincial-level engineering research center. Leading Products: Graphitized recarburizer, Casting grade silicon carbide, Anti-veining additive, Manganese nitride Ceramic foundry sand (Fused Bauxite Sand).

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Japan
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(888) 580-8070

Hitachi High-Tech America, Inc. ("HTA") is a privately-owned global affiliate company that operates within the Hitachi Group Companies. HTA sells and services semiconductor manufacturing equipment, analytical instrumentation, scientific instruments, and bio-related products as well as industrial equipment, electronic devices, and electronic and industrial materials.

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(309) 756-0200

Hoosier Pattern Inc.* **1455**

906 N. 10th St.
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<https://hoosierpattern.com/>
(260) 724-9430

At Hoosier Pattern we pride ourselves on being innovative and consistently raising the bar within the industry while maintaining the level of quality that we have always been known for. Located in Decatur, Indiana, Hoosier Pattern started in 1997 in a 3,500 square foot space. Today, we operate a 90,000 square foot facility with state-of-the-art technology allowing us to cater to our customers' ever-changing 3D printing and tooling needs. Our technology includes: 3D Sand Printing, CNC Machining, CNC Turning 3D Modeling, 5-Axis Machining Laser Scanning, CMM Verification, and FDM Printing.

Humtown Products* **637**

44708 Columbiana-Waterford Rd.
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<http://www.humtown.com>
(330) 482-5555

Humtown is a family-owned business dedicated to serving the foundry industry with the highest-quality products possible. A manufacturer of cold box, air-set and 3D printed sand cores and molds, Humtown has the capability of producing extremely high-quality cores in a wide variety of sizes, weights and configurations. With additive manufacturing, Humtown can 3D print sand cores and molds for legacy and low volume parts along with full production quantity cores and molds. To meet tooling and rigging needs, Humtown has an on-site

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(847) 397-5110

HWI a member of Calderys* **928**

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I**IACMI - The Composites Institute** **2447**

2730 Cherokee Farm Way, Suite 207
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<https://iacmi.org/>

IACMI – The Composites Institute is a national leader in advanced manufacturing, composite materials, and technologies. Founded in 2015 by the Department of Energy, IACMI connects industry, academia, and government to strengthen U.S. manufacturing and workforce development. Recognized for programs like METAL and ACE, supported by IBAS, IACMI empowers the next generation of innovators. Headquartered in Knoxville, Tennessee, it advances technology to position the U.S. as a leader in advanced manufacturing.

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Induction Technology Corp.* **920**

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<http://www.inductiontech.com>
(760) 246-7333

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<https://www.ice.it/it>
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ITOCHU Ceratech Corp. **711**

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<http://www.jgarantmc.com/services/industrial-ct-scanning>
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**Jinan Shengquan Group
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Joyo Carbon Materials Co. Ltd. 2019

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King Tester Corp.* 636

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REFCOTEC, INC.
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sales@refcotec.com

330.683.8200 (fax)
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Kodiak Group is an Engineering firm with a strong presence and history in foundries. Our engineering-based professionals create projects from initial concepts and budgeting to final design, and startup. Kodiak Group is 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 other engineering technical services.

Kore Mart Ltd.* 1847

7 Hill Dr. PO Box 175
Hamburg, PA 19526
<http://www.koremart.com>
(610) 562-5900

Kore Mart is shaping the future of foundries with our focus on 3D printing cores and molds. We utilize two state-of-the-art ExOne S-Max machines. Our service portfolio includes the production of high-precision, complex sand cores and molds that enhance casting quality and reduce production times. Kore Mart provides comprehensive model creation services, transforming traditional drawings into 3D models or employing advanced scanning technology to digitize physical parts and tooling. This end-to-end solution ensures that even those with legacy designs can benefit.

Kuttner North America* 2145

211 N. Frankling St.
PO Box 343
Port Washington, WI 53074-0343
<http://www.kuttnerna.com>
(262) 284-4483

Kuttner North America is your complete source for State-of-the-Art Melt Centers (Cupola), Gas Cleaning (Baghouse, Luehr Filter), and Waste Heat Recovery (Hot Blast Recuperator, Heat Exchanger, Gas Cooler, Combustion Systems, Wuerz GmbH). Kuttner North America also provides Equipment for Green Sand Applications (through our sister company Savelli) and NoBake / Resin Bound / Chemically Bonded Applications (through our sister company Kuttner NoBake Solutions, KNBS; the former IMF for South America). Sand Reclamation and Sand Preparation is part of the Portfolio of our Sister Companies, too.

L

LAEMPE REICH* 1337

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Trussville, AL 35173-0218
<http://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.

Lanzhou Sunrising Ferroalloy Co. Ltd. 2555

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Lanzhou, Gansu 730000
China
<http://www.westfesi.com>
0931-8334799

Ferroalloy Products

LECO Corporation* 1127

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Saint Joseph, MI 49085-2319
<http://www.leco.com>
(269) 985-5496

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Lianyungang Beatech Superfine Co. Ltd. 2340

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Lianyungang, Jiangsu 222133
China
<http://www.beatech.com.cn>
+86-518-87183181

Lianyungang Beatech Superfine Co., Ltd, was founded in 2006 and is one of the earliest domestic enterprises to produce metal abrasives and super fine spherical metal powder. The company mainly produces 10 series and more than 100 specifications of metal abrasive products including copper shot, aluminum shot, alloy aluminum shot, zinc shot, stainless steel shot, steel cut wire shot, cast steel shot, cast steel grit, cast iron shot, cast iron grit, etc. They are widely used in die-casting, aluminum profile, strengthening treatment, laser cladding, 3D printing.

LightSpeed Concepts Inc.* 537

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Loramendi was founded in 1973, Aurrenak in 1974 based in the North of Spain and both Companies belongs to Mondragon Group. Loramendi's activity focuses on the design and supply of global foundry solutions: core making equipment, vertical moulding machines, as well as providing a spare parts and retrofit service. Aurrenak's business focuses on the design and manufacture of moulds and tooling for the mass production casting industry, both in iron and aluminium, specialising in pressure injection, low pressure, gravity and green sand casting technologies.

Low Carbon Metal Limited 745

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China
<http://Lowcarbonmetal.cn>
8613818521759

Low Carbon Metal Limited is a distributor of Ferro-Chrome and other foundry material . We import ferro-chrome from Zimbabwe and India and store at QingDao (China) Bonded Warehouse, Laem ChaBang (Thailand) Bonded Warehouse and Quito (Ecuador) local warehouse . The customer can get quality verified ferroalloy from us.

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LPM Group (www.lpm-it.com) is a leading world-class Company on foundry equipment offering efficient, reliable, profitable systems to satisfy each of the requirements of our customers in: Low Pressure casting equipment and related automation for both aluminum and magnesium (under the brand LPM), Foundry tooling - molds and core boxes for gravity and low pressure (under UNIMOLDS and SIECAB brand) Melting and holding furnace (under LPM and CORAM brand) Our worldwide presence includes the USA, Mexico, Italy, China with manufacturing facilities and representative offices all around the world.

LS Industries 2543

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Lucky Sound is multi-generational, family-run trading company that sources and ships raw materials from

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M**Magaldi Technologies LLC* 1728**

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<http://www.magaldi.com>
(678) 705-9219

Magaldi Technologies is the US branch of the parent company Magaldi Power SpA located in Salerno, Italy. The Magaldi group companies started in 1929 and 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.

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Italy
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Mflex Insulations **1749**

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Morgan Molten Metal Systems is a global leader in manufacturing high-performance crucibles and foundry products, serving ferrous and non-ferrous foundries worldwide. With decades of expertise, we deliver sustainable solutions that enhance efficiency and reliability. Our product range made from advanced ceramics, designed for superior performance and durability for aluminium,

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Mostardi Platt **648**

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MRO Resources 907

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Ningbo Jingzhi Mould Co. Ltd. 1045

No. 78, Xiangshenhe Road, Industry Zone
Ningbo, Zhejiang 315700
China
<http://www.jz-mold.com>
(86) 574-2570 x3306

Ningbo Jingzhi Mould Co., Ltd. is one of the market leaders in the development, design and manufacture of metal casting moulds and tools in China. Over the years, we have developed solutions for sand casting, gravity casting and low pressure casting processes such as iron and light metal casting for the global market. Main equipment: 12 high-speed CNC machining centers, 1 five-axis deep drilling machine, 1 five-axis machining center. Quality system: ISO9001:2015. Software: Autocad, Siemens NX, Pro/E, Catia, etc.

Ningbo Yitailai Moulds Co. Ltd. 2347

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Xiangshan County
Ningbo, Zhejiang 315700
China
<http://www.yitailai.com>

NINGBO YITAILAI MOULDS CO.,LTD. is located in Xiangshan County Industrial Park, Ningbo city, Zhejiang province, which is nationally famous capital of casting moulds. YTL covers an area of 15000 square meters, construction area of 13000 square meters. YTL a history more than 30 years of design, manufacturing casting tooling, we have a professional design and manufacture team. YTL main business include: 1) Sand casting mold; 2) Gravity casting mold; 3) Low pressure casting mold; 4) Die casting mold



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Ningxia Hengtai International Trade Co. Ltd. 1254

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China
<http://www.hengtaicarbon.com>
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Ningxia Hengtai International Trade Co., Ltd, is the subsidiary company of Ningxia Hengtai Carbons Co., Ltd, which was established in 2014, mainly in the business of exporting of Carbon & Graphite products, such as Carbon Raiser, Calcined Petroleum Coke, Silicon Carbide, Met Coke, Foundry Coke. We also have Ferro Alloys products like: Fesi, Nodularizer, Inoculator, etc. Over the years, we have partners all over the world, including South Korea, Japan, United States, India, Brazil and Thailand Countries and Regions.

Ningxia Megastar Co. Ltd. 910

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China
<http://www.megastar-china.com>
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Non-Ferrous Founders' Society 755

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<http://www.novacast.se>
(630) 450-1647

Novis Works LLC* 1116

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Oritech Solutions Pvt. Ltd. 1755

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POLYTEC USA Corp. **1855**

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ProFound Alloys LLC **1944**

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<http://www.profoundalloys.com>
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PushCorp* **737**

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Pyrotek Inc. **1611**

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Q

Q&F Engineering* **2311**

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<http://www.qf-engineering>
(630) 803-9277

QF Engineering is an international business development organization dedicated to bringing state-of-the-art equipment to the North American market. We focus on providing solutions that contribute to increased productivity in foundries, aiming to create competitive business operations. QF Engineering partners have been providing cost-competitive equipment while enhancing Overall Equipment Effectiveness (OEE) performance. Our esteemed partners include:

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- Automatic Foundry Solutions
- Dalca Robotic
- Walbert
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Qingdao Huacan Heavy Industry Co. Ltd. **2624**

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Qingdao, Shandong 266400
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- tion equipment(line);
3. Hot box core shooting machine, cold box core shooting machine, shell core machine, shell mold and core casting production line, resin sand production equipment(line); Other casting accessory equipment like sand mixer machine, ladle, sand box, trolley, etc.

Qinhuangdao Hongtong Machinery Co. Ltd. **2409**

No. 62, Xigang North Road
Qinhuangdao, Hebei 066000
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<http://www.nbhdt.net/>
+86 0335-8582589

HDTD was founded in 2005, based on innovative technology, the company made a breakthrough in the technology of low pressure die casting machine, gravity casting machine and foundry automation. HDTD has become a world leader. Our products are exported to all over the world, and win wide reputation. HDTD Europe in Italy, Turkey, and agencies in India, Brazil, South America and Indonesia. Qinhuangdao Hong Tong Machinery Co., Ltd., covers an area of 20000 square meters, the main products are low pressure casting machine & gravity casting machine, robot system integration.

Quad City Safety* **547**

5311 Tremont Ave
Davenport, IA 52809
<http://www.quadcitiesafety.com>
(563) 445-2170

We specialize in PPE for the Metal Casting Industry. We realize that no two facilities are the same, therefore PPE at every facility has to be customized to the operations of that facility. We work with your team to develop the correct FR Clothing Solutions, correct Respirator Protection, Correct Hand and Eye Protection. We do onsite PPE Evaluations so we can come up with the best solutions for your employees for the tasks at hand. Please stop by and let's discuss the challenges that you are having and how we can help. Would love to become a part of your Safety Team.

Quigley Crucible R & S Co. Inc.* **1854**

270 Lancaster Ave Suite D1
Malvern, PA 19355
<http://www.quigleycrucible.com>
(610) 272-5450

Providing quality crucibles and refractories in all shapes, sizes and compositions to the metal casting market.

R**R Scheuchl America** **1818**

4850 Commerce Drive
Trussville, AL 35173
<https://www.scheuchl.com>
0049 170 7178550

RS product range includes everything from manual to fully automated systems, covering the entire value stream:

- casting
- cooling
- core removal
- sawing/milling/deburring
- cleaning processes
- wire coating
- regeneration of inorganic sand
- core printing

Since its foundation in 1962 R. Scheuchl has been synonymous with innovation and customized solutions in foundry technology, process engineering, energy technology and 3D printing. From consultation and design to installation and after-sales service, RS offers end-to-end solutions tailored to its customers' needs in aluminium and grey cast iron foundries.

Rampf Group Inc.* **2629**

49037 Wixom Tech Dr.
Wixom, MI 48393
<https://www.rampf-group.com/en/gifa/>
(248) 295-0223

RAMPF Tooling Solutions has been a leading supplier of epoxy and polyurethane systems for the foundry industry. Our RAKU® TOOL product range offers reliable solutions for foundry applications, including models, pattern plates, cores, and core boxes. Designed to meet the unique challenges of the casting industry, our products provide outstanding abrasion resistance, dimensional stability, and low moisture sensitivity. These innovative solutions help foundries optimize production efficiency while ensuring high-quality results.

REFCOTEC Inc.* **1737**

542 Collins Blvd.
Orrville, OH 44667-9796
<http://www.refcotec.com>
(330) 683-2200

REFCOTEC is a leading manufacturer of high performance foundry consumables with a focus on refractory coatings and resin systems. We offer a complete line of most consumables used in the foundry industry including;

sand additives, pastes, mudding compounds and partings. Through our partnership in Thermotec we also have a complete line of feeding aids, metal transfer and hot toppings. With attention to casting quality and improving productivity, REFCOTEC offers innovative and reliable solutions that meet the demanding needs of metal casting facilities.

Refractory & Insulation Supply Inc.* **1726**

101 E. Trails Rd.
Eldridge, IA 52748-9308
<http://www.refins.com>
(563) 285-9229

Reichmann & Sohn GmbH **2620**

Rudolf-Diesel-Str. 6-8
Weissenhorn, Bavaria 89264
Germany
<https://www.casting-finishing.com>
(497) 309-8750

Reichmann & Sohn GmbH has more than 100 years of engineering expertise in grinding and cutting technology. Customers worldwide rely on the high innovative strength, reliability and quality of the machines "Made in Germany". The Reichmann Casting Finishing division offers customer-oriented solutions for automatic cut-off grinding, deburring, surface grinding and belt grinding of castings. The systems for automatic fettling and casting finishing enable positive effects on costs, productivity, quality, health and safety in foundries worldwide.

Reno Refractories Inc.* **2337**

PO Box 201
Morris, AL 35116
<http://www.renorefractories.com>
(205) 647-0240

RHI Magnesita **2123**

425 S. Salem Church Rd.
York, PA 17408
<http://www.rhimagnesita.com>
(717) 792-3611

RHI Magnesita is the global leader in refractories. We have the largest number of locations around the world and the most innovative, reliable products and services. We also provide the most robust supply and quality security, thanks to our exceptional vertical integration – from mining to production to full service solutions.

Rio Tinto* **2119**

200 E. Randolph St. Ste. 7100
Chicago, IL 60601
<https://www.riotinto.com/>
(773) 270-6500

Rio Tinto is finding better ways™ to provide the materials the world needs to grow and decarbonise. Operating in 35 countries, we are a leading global mining and materials company that produces iron ore, copper, aluminium, minerals, and battery materials. Our high purity pig iron (HPPI), known as Sorelmetal™, is often used as the preferred metallic charge in foundries for the automotive, machine, construction, and heavy industries. Sorelmetal is a high purity iron-carbon alloy containing very low concentrations of manganese, phosphorus, sulfur, and other impurities.

Ruf Briquetting Systems **713**

771 Sugar Lane
Elyria, OH 44035
<http://www.ruf-briquetter.com>
(440) 779-2747

RUF Briquetting Systems is a leading manufacturer of industrial briquetting machines that convert waste materials like wood, metal, and biomass into compact, eco-friendly briquettes. These briquettes offer a sustainable solution for waste management, reducing storage space and increasing the efficiency of recycling processes. RUF's machines are known for their durability, innovative design, and ability to enhance material value while contributing to environmental conservation efforts.

S**Saint-Gobain Ceramics & Plastics** **2706**

1 New Bond Street
Worcester, MA 01606
<https://www.ceramicsrefractories.saint-gobain.com/>

We lead the industry in design, development and production of Engineered Ceramics and Refractory products for extreme operating conditions and high temperature applications. Every product and material are designed to maximize performance and durability while minimizing environmental impact.

Savelli Technologies Srl **2829-6**

Savelli Technologies Srl
Rodengo Saiano, Brescia 25050
Italy
<http://www.savelli.it>
+39 030 22795

SAVELLI, legal name "Savelli Technologies S.r.l." and registered trademark "SAVELLI since 1842" is a worldwide leading supplier of automatic horizontal tight flask molding lines and complete sand preparation and return systems for "Green Sand" foundries. The SAVELLI Group headquarters is located in Brescia, northern Italy, and it has subsidiaries in Mexico, China and India.

Saveway USA **1724**

4305 Mount Pleasant St. NW
Ste 101
North Canton, OH 44720-5429
<https://www.savewayusa.com/>

Saveway is the #1 worldwide leader in Refractory Monitoring Solutions. Among its many benefits, Saveway most importantly provides utmost safety for operating staff and molten-process equipment. Furnace breakthroughs, plant damage and operating disruptions can be avoided. Since relining becomes predictable, maximum service life of the refractory is ensured without any risk.

Scheuch/Camcorp/Schust **1922**

15729 College Blvd.
Lenexa, KS 66219
<https://scheuchna.com/>
(913) 951-8548

Scientific Dust Collectors* **1751**

4101 West 126th Street
Alsip, IL 60803
<http://www.scientificdustcollectors.com>
(708) 597-7090

For over 40 Years, Scientific Dust Collectors® has continued to manufacture the most efficient Baghouse Dust Collector on the market today. And with your support, we'll continue for another 40 years. If you have any questions about how we can assist you with your current dust collection issues, with our Full line of Dust Collection Systems, please keep us mind. SDC will show you how our systems will help to lower your Carbon Footprint and explain why our Patented UniFlow Supersonic Nozzle™ can save you energy and maintenance costs. Let us help you to "Discover the Difference".

Scott Sales Co.* **1355**

6115 Maywood Ave
Los Angeles, CA 90255
<http://www.scottsalesco.com>
(323) 588-3251
Crucible Supplier Servicing the Foundry Industry Since 1961.

Secat Inc. **1111**

1505 Bull Lea Rd.
Lexington, KY 40511
<http://www.secat.net>
(859) 514-4989

Secat Inc. is a metallurgical research laboratory specializing in aluminum technology. We assist companies with materials testing, failure analysis, alloy development, and process optimization. Our services also include new

product development, energy assessment, and business analysis. With a focus on innovation and efficiency, we help clients improve material properties, manufacturing processes, and overall performance across various industries. Secat collaborates with industry consultants and national laboratories to enhance our onsite capabilities.

SELEE Corporation* **811**

700 Shepard St.
Hendersonville, NC 28792
(828) 694-3424

SGM Srl **2829-7**

Via Gian Battista Stucchi 66/4
Monza and Brianza, 20900
Italy
<https://www.new-tem.com/>
+39 039 836246

Process metal components, the end products after the thermal deburrin treatment.

Shandong Hengqiao Energy Industrial Co. Ltd. **845**

Haibin 2nd Rd.
Rizhou, Shandong 276800
China
<http://www.hengqiaocarbon.com>
86-633-3385366

Shandong Hengqiao Energy Industrial Co.,Ltd is mainly committed to the production and sale of Calcined petroleum coke (GPC), Graphite petroleum coke (CPC), Silicon carbide (SiC), Metallurgical coke, Semi coke, Electrode paste, Graphite electrode, anode material for Lithium battery industry. Our headquarter is located in Rizhao, Shandong province with more than 700 employees currently.

Shells Inc. **945**

502 Old US Hwy. 30 East
Bourbon, IN 46504
<http://www.shellsinc.com>
(574) 342-2673

Outsourced producer of conventional cores and 3D additive technology for printed cores.

Shining 3D Technology Inc. **812**

2450 Alvarado St. Bldg. #7
San Leandro, CA 94577
<https://www.shining3d.com/>
(888) 597-5655

Founded in 2004, SHINING 3D has been focused on the research & development, manufacturing, and application

of high-accuracy 3D digital products for over 20 years. Offering accessible, efficient and high-tech solutions, SHINING 3D is a key contributor to the 3D digital technology field. Our primary focus is on high-accuracy digital industrial 3D scanning and digital dental scanning technologies.

Sichuan Heyi Electrical Technology Co. Ltd. **2251**

Hongguang Industrial Park
Longchang, SiChuan 642150
China
<http://www.schydq.net/>
+86-0832-8700722

Sichuan Heyi Electric Technology Co., Ltd. is located in Hongguang Industrial Park, Longchang City, Sichuan Province, the beautiful home of Chinese stone archways and Chinese bluestone. The park is located 500 meters from the Longchang South Exit of Xia-Rong Expressway, with very convenient transportation. Excellent location. It is an enterprise specializing in R&D, production and sales of intermediate frequency furnace accessories series and steel-making furnace refractory materials series used in steelmaking and casting fields.

Sichuan High Casting Materials Ltd. **1250**

No 2319, Unit 1, Building 5, No 666,
Guandong 1st St., Hi-Tech Zone
Chengdu, Sichuan 610000
China
<http://www.schcmcasting.com>
+86 18980775233

HCM is an international group corporation. We have two plants in China producing special alloys and silicon carbide. We specialize in manufacturing and exporting foundry raw materials from China over 13 years, and have been successfully built up a tight network with international trading partnerships all over the world by our honest reputation. Our products are exported to South Korea, Taiwan, Vietnam, Malaysia, India, Indonesia, Turkey, Egypt, Ukraine, etc. Annual exports of 20,000 tons. Our business target is to create an honest business by our best service and reputation with you together.

Siif **2111**

130, Rue Leonard de Vinci
Caudan 56850
France
<http://www.siif.fr>

Silver Needle Inc. **2110**

1628 Big Creek Rd.
Kellogg, ID 83837-5000
<http://www.silverneedleinc.net>
(800) 8693-7733

The goal of Silver Needle Inc.™ is to help our customers make informed decisions about keeping their workers safe when purchasing our products. We know properly selected personal protective equipment is critical when working with hazardous materials to ensure the safest work environment possible, and we provide unsurpassed expertise and adherence to only the highest industry standards to ensure that happens for you and/or your employees. With over 30 years of experience manufacturing PPE, you can be confident we will provide you with the safest and highest quality garments available.

Sintex Minerals & Services Inc.* **829**

29810 Southwest Freeway
Rosenberg, TX 77471
<http://www.sintexminerals.com>
(281) 239-2799

Sinto America* **1137**

150 Orchard St.
Grand Ledge, MI 48837
<http://www.sintoamerica.com>
(517) 371-2460

Roberts Sinto Corporation is a leading company in the design and manufacture for foundry, surface treatment and material handling markets. Founded over 50 years ago, Roberts Sinto began as an engineering and manufacturing firm with an emphasis on equipment for the foundry industry. As the industries have evolved, Roberts Sinto has developed and refined its capabilities to offer a broad range of services and equipment for all industrial applications.

SIR SPA* **2829-8**

Strada Nazionale del Canaletto Centro, 450
Modena 41122
Italy
<http://www.sir-mo.it/en>
+39 059 31 64 811

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* **819**

1168 US Rt. 5
Ottawa, IL 61350
<https://smartsand.com/>
(231) 884-7272

Southeastern Foundry Products & Foundry Coatings Inc.* **1807**

42 Longview Circle
Alabaster, AL 35007
<http://www.sefp.net>
(205) 620-0146

Foundry Coatings, Inc. is one of the leading coating manufacturing companies for water and solvent based coating, release agents, boron nitride releases, and a distributor for foundry product lines. We are the producer of Lost Foam Coatings, Sand Coatings, Investment Casting Coatings, Permanent Mold Coatings, Ladle Coatings For All Metals, Die Cast Coatings, Liquid Parting, Mold/Core Paste, Mudding Compounds, Boron Nitride Releases, and Release Agents For All Foundry Systems.

Specialty Foundry Products Inc. **1219**

1130 Raimund Muscoda Rd.
Bessemer, AL 35020-7261
<http://www.specfoundry.com>
(205) 424-0307

Spectro Alloys Corporation **1011**

13220 Doyle Path E
Rosemount, MN 55068
<http://www.spectroalloys.com>
(651) 437-2815

Spectro Alloys is an industry leading secondary aluminum smelter founded in 1973. We offer a diverse range of aluminum alloys from 100% recycled content to primary aluminum alloys. We provide scrap tolling getting you maximum value for your scrap while delivering the best quality ingot in return. We also sell raw materials and master alloys to meeting all of your aluminum and zinc casting needs. Visit us at www.spectroalloys.com.

Spectro Analytical Instruments* **1719**

50 Fordham Rd.
Wilmington, MA 01887
<http://www.spectro.com>
(201) 642-3000

Steel Grip Inc. **2523**

1501 E. Voorhees St.
Danville, IL 61832
<http://www.steelgripinc.com>
(800) 397-8390

Steel Grip, Inc. manufactures personal protective clothing also known as Personal Protective Equipment (PPE) for domestic and international applications. We are a privately owned American industrial protective clothing company headquartered in Danville, Illinois, with many years of experience. Business is conducted through distribution in all 50 states, and internationally. We have the ability to manufacture specialty attire such as electrical protective clothing and high temperature protective clothing. We design products to meet customer needs, lower costs, and enhance protective values.

Storey Foundry Assistance/MCM 917

5213 Dunewood Way
Avon, IN 46123

<https://storeyfoundryassistance.com/>

Storey Foundry Assistance (SFA) is the exclusive North American supplier for MCM Foundry, specializing in enhancing foundry productivity and efficiency. MCM designs and manufactures machines and complete plants for No Bake foundries, develops equipment for Foundry 4.0, refurbishes machines, and provides engineering, consulting, and maintenance services. With a focus on reliability and innovation, SFA and MCM offer seamless support, technical service, and spare parts to ensure optimal foundry operations.

Stratasys 1004

7665 Commerce Way
Eden Prairie, MN 55344

<https://www.stratasys.com/en/>

Summit Foundry Systems Inc.* 1511

2100 Wayne Haven St.
Fort Wayne, IN 46803-3279

<http://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 the Automatic Molding Machines. COOLtech Sand Cooling Water Additon System will be featured. Summit provides individual components such as Conveyors, Bucket Elevators, Rotary Screens, Sand Feeder Bins, and Storage Bins.

Sun Metalon Inc.* 747

712 N. Central Ave
Suite B

Wood Dale, IL 60191

<http://www.sunmetalon.com>

SUN METALON INC., is dedicated to reducing the environmental impact of current metal recycling methods and fundamentally revolutionizing equipment to recycle all types of metal, responsibly and at reduced costs. Its proprietary heating technology can recycle and recover various metals, transforming dirty metal waste into valuable, clean materials with reduced energy consumption, CO2 emissions, and costs. SUN METALON maintains offices in the US and Japan. New address: 712 N Central Ave, Suite B, Wood Dale, IL 60191, USA

Sun-Tec Corporation 954

46590 Ryan Court
Novi, MI 48377

<http://www.sunteccorp.com>

(248) 669-3100 | (248) 669-1199

At Sun-Tec, our goal is to be the sole source for all of your hardness testing needs. We specialize in Rockwell-type, Brinell, Vickers & Knoop, Leeb, Tensile / Compression and Ductility equipment. Located in Novi, Michigan in our 20,000 sq. ft. facility, we repair, rebuild and offer new equipment, accessories along with indenters and test blocks from our ISO/IEC 17025 accredited laboratory. Our service department can calibrate and certify all makes and models of testing equipment with our technical expertise.

Supreme Cores* 810

2595 Highway 87
Alabaster, AL 35007

<http://supremecores.com>

(205) 664-4127

Three manufacturing locations (AL, SC, WI) produce sand cores and molds for the metal casting industry.

Suzhou Weijing Automation Co. Ltd. 1549

No 156 Xinzhuang town
Changshu, Suzhou City
Jiangsu 215500
China

<http://www.weijingsz.com>

+8615306124775

WEIJING AUTOMATION is a professional manufacturer of molten metal transporting machine, pouring machine, degating machine, grinding machine in China. WEIJING has two plants. One in Suzhou, another in Yanzhou. Total areas are up to 9000 SQM. 2 plants have 93 employees in total. By Jan 1st, 2025, WEIJING

already sold 1103 wedge breakers, 60 runner cutters, 228 degating hammers, 281 auto grinding machines, 77 pouring machines and 21 transporting machines. And WEIJING foundry customers cover up to 27 countries. WEIJING firmly believe from the heart THE MATCHABLE IS THE BEST.

Suzhou Xingye Material Technology Co. Ltd. 2257

No.15 Daoan Rd, Huguan Industrial
Park High-tech Zone

Suzhou, Jiangsu 215151

China

<http://www.chinaxingye.com>

+86-512-65399533 | +86-512-68836942

Suzhou Xingye Materials Technology Co., Ltd. (Stock Code SH603928) is a high-tech enterprise focused on R&D, manufacture, sale and related technical services of foundry functional new materials. Founded in 1992, the headquarters is located in Xushuguan town with floor space about 286,000SQM, employees over 600 and three subsidiaries of Suzhou Sinye Chemical Co., Ltd., Suzhou Xingye Materials Technology Nantong Co., Ltd. and Ningxia Shengdingfeng New Materials Co., Ltd. In Dec. 2016, the company started IPO on Shanghai Stock Exchange and became a public limited company in China.

Synchro ERP Ltd.* 705

Phoenix Cottage, Ballacorey Road
Bride, Isle of Man IM7 4AW

United Kingdom

<http://www.synchroerp.com>

(44) 7977 411116

SYSCON Sensors* 2237

1108 High St.

South Bend, IN 46601-3705

<https://sysconsensors.com>

(574) 232-3900

For more than four decades, we've been in the business of creating tools to help accurately measure temperature for molten metal analysis. As industry experts, we know how to produce equipment that delivers the solutions your foundry or plant needs at affordable price points.

T

TEMCO Metal & Chemical Corp.* 1946

2F-3, No.6, Aly. 25, Ln. 113, Sec.3, Minsheng E. Rd.,
Shongshan Dist.

Taipei City, Taiwan 105

Taiwan

http://www.temc.com.tw/?avia_forced_reroute=1

+88648873676

TEMCO has been part of the foundry industry for more than 30 years. TEMCO is derived from the terms technology, engineering, material, and corporation.

TES-SAN LTD STI 1044

Basak Mah Cankoy SK A Blok 12/A

Konya 42080

Turkey

<http://www.tes-san.com.tr>

0905468485651

Our company founded by Mechanical Engineer Galip Yayar in 1994 to produce devices to heating sector, today with expert engineers and workers designs and produces heating systems, filtration systems, recycling systems, dunnage accumulation and burning systems in accordance with today's technologic development. Our manufacture thought in company's productions is that the products should be highly productive, environment-friendly, technology. Our company services to current problems of the public and industrialist with its active structure and different engineering solutions.

Texan Minerals and Chemicals LLC* 1912

14090 Southwest Fwy. Ste. 310

Sugar Land, TX 77478

<http://www.tmcgreen.com>

(713) 294-4180

Texan Minerals and Chemicals LLC is a premium supplier and trader in the field of foundry raw materials. With our extensive warehouse infrastructure and efficient transport facilities, we ensure timely delivery of goods to our esteemed clients worldwide. We proudly collaborate with reputable principals and partners in the industry, ensuring access to cutting-edge technologies and superior-quality products to meet the diverse needs of our clientele worldwide.

The Bright World of Metals - Messe Duesseldorf 2621

150 N. Michigan Avenue

Suite 2920

Chicago, IL 60601

<http://www.tbwom.com>

(312) 781-5180

Messe Duesseldorf is one of the world's leading trade show management companies. Along with our subsidiaries and partners, we organize a global family of market leading trade fairs collectively known as The Bright World of Metals, all of which serve the international foundry and castings industries. The trade shows are held in Germany (GIFA & NEWCAST 2027), Mexico (FUNDIEXPO & GIFA Mexico 2026), Egypt (GIFA Middle East Africa 2025), Thailand (GIFA Southeast

Asia 2025), Indonesia (GIFA Indonesia 2026), Turkey (Ankiros/ Turkcast 2026) and Saudi Arabia (metalflow ALLIANCE Saudi Arabia 2025).

The Hill & Griffith Co.* **2529**

1085 Summer St.
Cincinnati, OH 45204
<http://www.hillandgriffith.com>
(513) 921-1075

Since its inception in 1896, Hill & Griffith has maintained a top priority around quality and service, using these two fundamental aspects to reach customer satisfaction for 129 years. Investment in people, research, product development, and facilities will ensure we continue to be a leader with our customers and the industries we serve. The integrity of Hill & Griffith is represented in the products and services bearing our name, which is why product quality has been and will always be at the heart of the company.

The Schaefer Group Inc.* **2055**

1300 Grange Hall Road
Dayton, OH 45430
<http://www.theschaefergroup.com>
(937) 253-3342

Frank W. Schaefer, Inc (FWS) started business as a refractory contractor in 1930, and began designing and manufacturing industrial furnaces in 1945. In the early 1970's, FWS's aluminum furnace business grew large enough that it became necessary to form two divisions within the company: A Refractory Sales and Service Division and an Industrial Furnace Division. In 1998, the Industrial Furnace Division was separated from FWS, Inc to form a new company, Schaefer Furnaces, Inc (SFI). A combining of these two related companies took place in late 2002, forming The Schaefer Group, Inc.

Thermo Fisher Scientific **1625**

5225-1 Verona Rd.
Madison, WI 53711
<http://www.thermofisher.com>
(800) 556-2323

Thermo Fisher Scientific is a global leader in scientific and process instrumentation, providing a wide range of products, software, and services to enhance casting and foundry operations. We are committed to innovation and excellence, delivering solutions that meet the highest accuracy, efficiency, and environmental standards. Our advanced analytical instruments, including spectrometers, microscopes, and analyzers, ensure precise material analysis and quality control. Connect with us to help elevate your operational performance.

Thermotec LLC* **1846**

PO Box 464
Hamburg, PA 19526
<https://www.thermotecindustries.com>
(440) 277-1246

Thermotec manufactures riser sleeves, mini risers, shank ladle liners, and direct pour cups out of three locations in the United States. Our products are built on the solid foundation of chemistry and thermodynamics geared towards innovating and enhancing the casting processes. We aim to improve casting integrity, minimize defects, and optimize yield. Look for Thermotec risers in MAGMASOFT® and be confident that our products will perform the way you model them!

Thermtronix Corporation **2454**

17129 Muskrat Ave
Adelanto, CA 92301-0100
<http://www.thermtronix.com>
(800) 309-6337

Thermtronix is a privately held company formed in San Bernardino, California in 1984. As business expanded regional sales/service offices were setup in Connecticut, Wisconsin, Ohio and Tennessee. International agents were established in Canada and Mexico. In 1991 Thermtronix moved to their present headquarters and manufacturing facility located on a five-acre site in the Adelanto Industrial Park in Adelanto, California. Thermtronix is a specialized technology company with a single focus on aluminum melting. While Thermtronix offers a full line of both gas and electric melting and holding.

Tianjin Shengtong Metallurgical Technology Co. Ltd. **2349**

No.289 Jinqi Road, Gulin Street, Binhai New Area
Tianjin 300270
China

Transmet Corporation **1013**

4290 Perimeter Dr.
Columbus, OH 43228
<http://www.transmet.com>
(614) 276-5522

Trebi Srl* **2829-9**

Via Industriale 2/4/6
Cellatica Brescia 25060
Italy
<http://www.terbi.bs.com>
(030) 373-2317

Manufacturer of cutting and deburring machines since 1985.

Trialco Aluminum LLC **2244**

900 E Lincoln Hwy.
Chicago Heights, IL 6041
<http://www.trialco.net>
(708) 757-4200

Trialco Aluminum LLC is a versatile Primary and Secondary Aluminum smelter, specializing in producing clean, high quality, specification aluminum alloys for die casters, sand foundries, permanent mold foundries, job shops, specialty casting operations and investment castings. With our in-house metallurgist, Trialco can produce virtually every alloy published by the Aluminum Association, along with any custom alloy specifications for your unique castings. Trialco Aluminum LLC is a PSW Group INC Company.

U

U-Metco Inc. **1010**

8651 E. 7 Mile Rd.
Detroit, MI 48234-3658
<http://www.u-metco.com>
(313) 366-1010

U-Metco Inc. is a supplier of high quality steel and stainless steel Melting Stock and Cover Steel Punchings for ferrous foundries throughout North America. They offer a wide range of consistent, guaranteed chemistry steel and stainless steel alloys in the form of punchings, plate and bar. Materials are processed to be clean and dry and packaged for maximum efficiency in handling in charging. Chemical certificates of analysis are also provided with each shipment.

Unimetal USA Inc. - Larpen Metallurgical Service **2018**

1111 Western Dr.
Hartford, WI 53027
<http://www.larpen.com>
(262) 673-9709

Larpen Metallurgical Service is the premier graphite and carbon supplier to the foundry and steel industry in North America. A division of Unimetal, the largest graphite producer in North and South America, Larpen has become part of the global leader in carbon solutions. Larpen offers brands like GRAPH-HEX, DESULCO ECO, and the purest form of carbon additive on the market-DESULCO.

United Alloys R & D Inc. **709**

125 Blackstone Ave
PO Box 387
Jamestown, NY 14701
<https://unitedalloysrd.com/>

(1) 800-356 xWELD

Welding and Maintenance Supply

United Refractories Co. **1819**

264 Valleybrook Rd.
Mc Murray, PA 15317-3256
<http://www.urc4u.com>
(724) 941-9300

Induction melting & holding, high tonnage cupolas, transfer & treatment products for iron and steel, and non-ferrous foundry operations - URC refractory products withstand unique process demands. With an emphasis on R&D, product training & customization, and industry leading responsiveness, URC is committed to providing value to each customers operation.

Universal Welding & Engineering **809**

1709 Pearl Street
Waukesha, WI 53186
<https://www.universal-welding.com/>
(262) 544-6416

Medium to thick plate metal fabricator providing machined complete foundry flasks, ladle shells, furnaces, furnace lining forms, rotary screens and so much more. With our experience and capability to develop, design, fabricate equipment, we're not just suppliers - we're partners in your foundry's success.

University of Northern Iowa **650**

2900 Campus St.
Cedar Falls, IA 50614
<http://www.uni.edu>

USMFG Inc.* **909**

1500 Kalamazoo St.
South Haven, MI 49090
<http://www.us-mfg.com>
(269) 637-6392

Since 2013, USMFG Inc., continues to serve the American Iron and Steel market from South Haven, Michigan, which is ideally located between Detroit and Chicago. On an area of more than 200,000 square feet and equipped with our long experience, USMFG Inc. can provide the full range of cupola furnace briquettes. In addition to processing strategic raw materials, USMFG Inc. can also provide additive ferroalloys needed during the production. Thus providing a stream line supply for the melting process.

V**Verder Scientific Inc. 1810**

11 Penns Trl. Ste. 300
Newtown, PA 18940
<http://www.verder-scientific.com>
(267) 757-0351

Versatile Equipment Pvt. Ltd. 2519

B69 MIDC Gokul Shirgaon
Kolhapur, Maharashtra 416234
India
<http://www.sandtesting.group>
(231) 672-711

- Versatile Equipments Pvt Ltd. has been in the field of manufacturing of Foundry Sand Testing Equipment since 1966.
- The company is Pioneer in research, design, manufacturing & sales of Laboratory Testing equipment as well as online testing & Control Equipment for Foundry Sands.

VibraPro 1055

3629 S. Banner Ave
Boise, ID 83709
<http://www.vibrapro.com>
(208) 362-5548

Located in picturesque Boise, Idaho, VIBRAPRO Manufacturing has been responding to the needs of the timber, casting, and recycling industries since 1983. Our mission has always been to produce the most reliable and efficient linear vibrating screen equipment in the industry. We employ some of the finest tradesmen who take pride in ensuring that the VIBRAPRO name is synonymous with quality.

VIBROPROCESS SRL 2829-10

Via Calamandrei 81
Arcore, Monza and Brianza 20862
Italy
<http://www.vibroprocess.it>
0039 0392878381

For the world most important foundries, Vibroprocess designs, manufactures and installs vibrating equipment in order to carry out important industrial processes: starting from the melting furnaces charging, passing to the shakeout and cooling systems of castings in the green sand foundries, up to the shakeout and pre-reclaiming of the sand in the no bake foundries. The Vibroprocess vibrating machines are distinguished by their reliability and durability, moreover, they are designed and built to comply with the environmental parameters respect Italian Trade Agency (ITA).

VIBROTECH Engineering USA LLC 1951

Ctra San Vicente 17
Valle De Trapaga, Bizkaia 48510
Spain
<http://www.vibrotech-eng.com>

ViewTech Borescopes 918

1745 Barlow St.
Traverse City, MI 49686
<https://www.ViewTech.com>
(231) 943-1171

ViewTech Borescopes is the leading provider of articulating video borescopes in North America, with over 3,000 units in service across a wide range of industries and applications. Our first product, released in 2008, set a new standard for portability, ergonomics and ease-of-use, with its industry-first mechanical, joystick-controlled articulation. This original borescope, the VJ, was followed by the VJ-Advance, VJ-3, and the new VJ-4.

Viking Technologies* 1707

25169 Dequindre Rd.
Madison Heights, MI 48071-4240
<http://www.viking-technologies.com>
(248) 548-3038

Viking Wheel Blast Systems* 1428

731 S Industrial Ct.
Rose Hill, KS 67133
<https://vikingcorporation.com/>
(316) 634-6699

Viking Wheel Blast Systems manufactures and distributes a full line of industrial shot blast machines. Such equipment cleans and removes mill scale, dirt and rust, and is ideal for the preparation of large numbers or exceptionally complex parts. We also offer an extensive line of replacement parts, including replacement parts for our competitors' equipment.

VisiConsult X-ray Solutions Americas Corp. 2051

271 17th Street NW Suite 1750
Atlanta, GA 30363
<http://www.vc-xray.com>

VCxray by VisiConsult - a global market leader for X-ray inspection solutions - serves to the broad range of industries such as aerospace & aviation, automotive, defense and energy. With our cutting-edge X-ray systems, our customers can get an optimum handle on castings, composites, electronics, pipes, tubes/tanks, plastics, turbine blades or welding, solving the challenges in non-destructive testing and quality management. With a wide range of casting inspection solutions for a rapid testing of small

to very large sized parts and gigacastings, we have the perfect answer to every requirement.

Visiometa 3024

Zur Parmke 14
Schmallenberg 57392
Germany
<http://www.visiometa.com>
(+49) 297-1961 x9891

Visiometa offers unique and innovative software for the planning of casting processes. Within a very short time, users can analyze and modify the cast part using intuitive techniques. Our specialized toolkit also helps to design gating and feeding systems with regard to safe mold filling and controlled solidification. No prior experience with CAD tools or simulation technology is required. Our revolutionary approach to process planning results in significantly less validation effort. This makes the preparation of a qualified delivery quotation quick and easy, creating a competitive advantage.

VJ Technologies Inc.* 1107

89 Carlough Rd.
Bohemia, NY 11716-2903
<http://www.vjt.com>
(631) 589-8800

VJ Technologies Inc. (VJT) is a global leaders in providing Digital Radiography & Computed Tomography x-ray inspection systems and solutions for a variety of industries. VJT's visionary and talented engineers have developed ground-breaking solutions in the field of nondestructive testing. VJT's experience has led to innovating decisions and more advanced capabilities than competitors throughout the world for radiosopic inspection of products and assemblies to detect defects or foreign matter, reducing cost and time while increasing quality and safety.

Voxeljet America Inc.* 2029

41430 Haggerty Cir. S.
Canton, MI 48188-2227
<http://www.voxeljet.com>
(734) 808-0025

Vulkan Blast Shot Technology 923

10 Plant Farm Blvd. Unit 2
Brantford, ON N3S 7W3
Canada
<http://www.vulkanshot.com>
(800) 263-7674

Pioneering the industry for over 35 years, Vulkan Blast Shot Technology is a leading supplier of highly efficient, durable and reusable non-rusting cast stainless steel

shot and grit. Branded as Chronital, Grittal and FINAL, our products are sold both directly, as well as through a network of distributors and re-sellers throughout the United States and Canada. With Vulkan, you can count on obtaining high quality products, strong technical support and efficient and friendly customer service, all at competitive pricing!

W**Waltz-Holst Co. 807**

5900 Greeley Ave. N.E.
Rockford, MI 49341

Washington Mills 827

13230 Prairie Industrial Pkwy.
Hennepin, IL 61327
<http://www.washingtonmills.com>
(716) 278-6600

A global leader in the manufacture of metallurgical-grade silicon carbide and major producer and supplier of foundry-ready materials, Washington Mills has supported the iron and steel industry with high-quality, consistent and reliable products since 1978. Our highly trained staff of metallurgists, technicians and production personnel operate the most modern SiC plant in the world in Hennepin, Illinois. The only producer of alpha silicon carbide crude in North America, Washington Mills' metallurgical-grade SiC products are manufactured to the highest standards and proudly made in the USA.

Weiler Abrasives 2613

1 Weiler Dr.
Cresco, PA 18326
<https://www.weilerabrasives.com/catalog/industry/foundry>
(800) 835-9999

From blending parting lines to grinding burnt sand castings, the foundry cleaning room presents productivity challenges that can often be a bottleneck in the foundry process. Having the right abrasives is critical — that's why Weiler Abrasives offers a variety of solutions specifically for foundry applications. Our line of abrasives can help you address tough grinding and finishing jobs to decrease cycle times while gaining a quality finish. We know the job of metal casting isn't easy - operators deserve products that are easy and safe to use. Better abrasives mean greater efficiency.

Whiting Equipment Canada Inc.* 1823

350 Alexander St.
Welland, ON L3B 5P4
Canada
<http://www.whiting.ca>
(905) 732-7585

Whiting Equipment Canada is a wholly owned subsidiary of Whiting Corp., Monee, IL. The company and its subsidiary manufacture meltshop and material handling equipment, including electric arc furnaces, ladles, transfer cars, charge buckets, EAF control upgrades, tilting stands, AOD systems and furnace transformers. The Whiting booth will be staffed with technical specialists ready to discuss the technical aspects of your future projects, along with Whiting's engineering and manufacturing capabilities.

Winoa USA (W Abrasives) 1007

18900 Rialto St.
Melvindale, MI 48122
(800) 207-4691

Winoa is a manufacturer of High & Low Carbon cast steel shot & Cold Forged Shot & Grit. Our WCare Technicians can inspect, tune, and repair shot blast equipment to ensure our customers are obtaining maximum efficiency in their cleaning process. Our Testing Center in Pittsburgh, PA can simulate most blasting operations without interrupting your production. Reach out to us to see how we can help optimize your blasting process.

Youngstown State University 640

360 W. Commerce St.
Youngstown, OH 44503
<http://www.yzu.edu/etc>
(330) 941-2357

The Excellence Training Center (ETC) at Youngstown State University is a one-of-a-kind workforce, education, research and commercial center focused on advanced manufacturing. Career pathways for all types of students include traditional and non-traditional certifications and industry recognized credentials offered in a wide range of areas such as manual and CNC machining, industrial maintenance, robotics, automation and additive manufacturing. The ETC houses over \$10 million of advanced manufacturing equipment that is used to bring the programs to life.

ZEISS Industrial Quality Solutions 1918

6250 Sycamore Ln. N.
Industrial Measuring Tech Div.
Maple Grove, MN 55369-6310
<http://www.zeiss.com/metrology>
(763) 744-2400

Zhejiang Wanfeng Technology Development Co. Ltd. 649

No.999, Guanhe South Road,
Sanjiang Street, Shengzhou
Shaoxing, Zhejiang China
<https://wanfengdiecasting.com/>
+8615325858280

Located in Shengzhou, Zhejiang province. Plant area over 200000 square meter with three individual plants. Main business range: intelligent equipment for non-ferrous castings, production line, integrated system provider. Main Product:Low pressure die casting;gravity die casting machine;Counter pressure casting machine;Flow forming machine; Melting furnace;Decorating machine;Deburring machine;Trimming machine;Cutting cell;Turn key service Casting cell automatic whole production line system provider. Product Application:Aluminum ingot melting;Aluminum die casting equipment;Post cleaning process.

Zhengzhou Zhenzhong Fused New Material Co. Ltd. 1945

Goutang Xinmi Zhengzhou City, Henan Province
Zhengzhou, Henan 452384
China
<http://www.zz-zirconia.com>
0086-371-69251087

Zhengzhou Zhenzhong Fused New Materials Co., Ltd. was founded in 1987. Since its establishment, the company has been committed to becoming a technological leader in China's fused new materials industry as its corporate vision, constantly innovating. Currently, the company has 44 national invention patents in this field. The product applications cover industries such as metallurgical refractory, titanium alloy casting, friction braking, ceramic pigments, plasma spraying, surface treatment, structural ceramics, insulation materials, oxygen sensors, and oxygen probes.

Zibo Taa Metal Technology Co. Ltd. 2413

No 288 Center Ave Mengshui Zhoucun
Zibo, Shandong 255318
China
<http://www.taa.net.cn>
0086-533-6881687

Founded in Mar.1997, ZIBO TAA METAL TECHNOLOGY CO. LTD is the developer of the national industry standard for Surface Treatment of Steel before Coating. TAA mainly products include high carbon steel shot/grit, 3M low carbon steel shot, stainless steel shot/grit, carbon steel shot, bearing steel grit, sponge media, garnet abrasive, etc. The subsidiary companies include TAA

Machinery, TAA Mechanical, TAA Cloud, TAA Thailand, TAA Ningde, except abrasives products, also producing the shot-blasting machine and accessory spare parts, including blades, impeller, control cage, etc.

Zibo Tongpu Vacuum Equipment Co. Ltd. 1147

No. 41 Kaitai Avenue, Economic Development Zone,
Gaoqing County
Zibo, Shandong 256300
China
<http://www.topfoundry.com>
+86-0533-2904092

Zibo Tongpu Vacuum Equipment Co., Ltd. was established in 2005 and is located in Gaoqing Economic Development Zone, Zibo City, Shandong Province. It is a specialized manufacturer of lost foam and Vacuum casting equipment, as well as various vacuum pumps. We have designed and manufactured multiple lost foam and V-method production lines for our customers. These devices not only cover more than 20 provinces, cities, and autonomous regions across the country, but are also sold to countries such as Russia, South Korea, Thailand, and Kazakhstan.

Ziheng Tianjin Industry Co. Ltd. 2155

No.60, Zhonghuan Xi Rd., Airport Economic Area
Tianjin, 300308
China
ziheng@zihengtj.cn
<http://www.zihengtj.cn>
+862258821585

Ziheng, a High and new technology enterprise which technically cooperated with foreign companies, has municipal enterprise technical center and its production has got several states patents. It professionally produce AMF series vertical molding, parallel parting, match-plate, flaskless molding line; BMD flask molding line, Ziheng HMT series molding line, HAP series pouring machine and HVM shell molding line. It has advanced production equipment, perfect detection methods, and strict implementation of ISO9001 quality system standards.

Zijiang Furnace Nanjing Co. Ltd. 1255

No. 5 Xianxin middle road, Economic and
Development zone, Qixia district
Nanjing, Jiangsu 210000
China
<https://zh-cn.zj-furnace.com/>
+86 (0)2585553949

Zijiang Furnace Nanjing Co., Ltd. is a large enterprise for designing and manufacturing various industrial furnaces. Since the plant is built in 1975, we have developed a strong technical group and an impeccable quality assurance system. There are in total 392 employees in the company which includes 56 engineers. The main products are: no-basket roller type aluminum alloy wheel H/T production line, aluminum bar heating furnace, aluminum wire annealing furnace, walking beam type continuous production line, drop bottom furnace, trolley type furnace, bell type furnace and etc.

ZIRCAR Ceramics Inc. 1745

100 N. Main St.
Florida, NY 10921
<http://www.zircarceramics.com>
(845) 651-6600

Manufactures ceramic fiber based high temperature thermal insulation products for temperatures to 1825C. Boards, cylinders, blankets, papers, textiles, coatings, adhesives. Insulation Assemblies, Resistance Heated Modules. Special emphasis on precision custom CNC machined components. High Performance!

Cast in North America Exhibitor Booth List - Alphabetical (As of 2/21/2025)

A		M	
Aalberts Surface Technologies*	621	MacLean Power Systems	628
Alliant Castings*	610	Monarch Industries Ltd.	728
Atlas Foundry Company Inc.	721		
B		O	
Badger Alloys Inc.*	521	Omega Castings Inc.	513
Bibby-Ste-Croix	409	Osco Industries Inc.*	529
Buck Company*	614		
C		P	
CaneKast	710	Pier Foundry & Pattern Shop*	523
Casting Solutions LLC*	511	Product Development & Analysis (PDA) LLC *	820
Creaform	714		
D		R	
Denison Industries Inc.*	822	Rochester Metal Products Corp.*	618
Diversified Pattern and Engineering	613		
E		S	
Eagle Group Manufacturers*	519	St. Marys Foundry Ltd.*	720
Eck Industries Inc.*	515		
Elyria & Hodge Foundry Group*	629		
F		T	
FA Foundry	718	Talumex	415
Farrar Corporation*	712	Tooling & Equipment International (TEI)*	625
Foundrion Group*	729	TPi Arcade Inc.*	708
G		W	
Goldens' Foundry and Machine Company*	510	Waupaca Foundry*	723
Griffin Industries*	506		
H			
Harmony Castings LLC*	719		
HyCast LLC*	724		
HyPro Inc.	622		
I			
Imperial Casting Company Inc.*	611		
Impro Industries USA Inc.*	828		
K			
Kimura Foundry America*	619		
L			
LeClaire Manufacturing Co.*	706		
Lethbridge Iron Works (Leth Iron)*	620		
Ligon Permanent Mold Group*	818		

Cast in North America Exhibitor Booth List - Category (As of 2/21/2025)

Alloys/Materials - Aluminum		Engineering/Capital Equipment - Engineering	
Aalberts Surface Technologies*	621	Ligon Permanent Mold Group*	818
Buck Company*	614	Omega Castings Inc.	513
Denison Industries Inc.*	822		
Eck Industries Inc.*	515	Engineering/Capital Equipment - Heat Treatment	
Foundrion Group*	729	Denison Industries Inc.*	822
Griffin Industries*	506	Omega Castings Inc.	513
HyPro Inc.	622		
Impro Industries USA Inc.*	828	Engineering/Capital Equipment - Maintenance	
Ligon Permanent Mold Group*	818	Omega Castings Inc.	513
Talumex	415		
Tooling & Equipment International (TEI)*	625	Engineering/Capital Equipment - Patternmaking & Tooling	
Alloys/Materials - Copper-Base		Badger Alloys Inc.	521
Foundrion Group*	729	Diversified Pattern and Engineering	613
		Tooling & Equipment International (TEI)*	625
Alloys/Materials - Iron		Engineering/Capital Equipment - Value-Added Services (Machining, Painting, Assembly, etc...)	
Alliant Castings*	610	Creaform	714
Atlas Foundry Company Inc.	721	Eagle Group Manufacturers*	519
Bibby-Ste-Croix	409	Ligon Permanent Mold Group*	818
Buck Company*	614	MacLean Power Systems	628
Casting Solutions LLC*	511	Melting/Melting Quality - Casting Quality & Testing	
Farrar Corporation*	712	FA Foundry	718
Foundrion Group*	729	Goldens' Foundry and Machine Company*	510
Griffin Industries*	506	Melting/Melting Quality - Ferrous Melting	
HyCast LLC*	724	Atlas Foundry Company Inc.	721
HyPro Inc.	622	HyCast LLC*	724
Lethbridge Iron Works (Leth Iron)*	620	Impro Industries USA Inc.*	828
MacLean Power Systems	628	Melting/Melting Quality - Ferrous Pouring	
Monarch Industries Ltd.	728	Buck Company*	614
Rochester Metal Products Corp.*	618	Farrar Corporation*	712
		Omega Castings Inc.	513
Alloys/Materials - Magnesium		Melting/Melting Quality - Nonferrous Melting	
Foundrion Group*	729	Tooling & Equipment International (TEI)*	625
		Melting/Melting Quality - Nonferrous Pouring	
Alloys/Materials - Steel		Buck Company*	614
Aalberts Surface Technologies*	621	Molding Processes - Centrifugal	
Badger Alloys Inc.*	521	Bibby-Ste-Croix	409
Eagle Group Manufacturers*	519	Goldens' Foundry and Machine Company*	510
Foundrion Group*	729		
HyPro Inc.	622		
Engineering/Capital Equipment - Casting Design			
Farrar Corporation*	712		
Impro Industries USA Inc.*	828		
MacLean Power Systems	628		
Omega Castings Inc.	513		

Molding Processes - Chemically-Bound Sand

Badger Alloys Inc.*	521
Bibby-Ste-Croix	409
CaneKast	710
Casting Solutions LLC*	511
Eagle Group Manufacturers*	519
Eck Industries Inc.*	515
Monarch Industries Ltd.	728
Talumex	415
Tooling & Equipment International (TEI)*	625

Molding Processes - Green Sand

Bibby-Ste-Croix	409
Buck Company*	614
CaneKast	710
Casting Solutions LLC*	511
Farrar Corporation*	712
Goldens' Foundry and Machine Company*	510
Griffin Industries*	506
HyCast LLC*	724
LeClaire Manufacturing Co.*	706
Lethbridge Iron Works (Leth Iron)*	620
Ligon Permanent Mold Group*	818
MacLean Power Systems	628
Monarch Industries Ltd	728

Molding Processes - Investment

Eagle Group Manufacturers*	519
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Molding Processes - Permanent Mold

CaneKast	710
Denison Industries Inc.*	822
Eck Industries Inc.*	515
LeClaire Manufacturing Co.*	706
Ligon Permanent Mold Group*	818

Molding Processes - Vacuum Processes (sand or metal mold)

Harmony Castings LLC*	719
TPi Arcade Inc.*	708

Sand Mold/Core Making - Additive Manufacturing

Badger Alloys Inc.*	521
Creaform	714
Farrar Corporation*	712
Griffin Industries*	506
LeClaire Manufacturing Co.*	706
Tooling & Equipment International (TEI)*	625

Sand Mold/Core Making - Core Machines

Casting Solutions LLC*	511
Goldens' Foundry and Machine Company*	510

Sand Mold/Core Making - Coremaking

CaneKast	710
Eagle Group Manufacturers*	519
Griffin Industries*	506
LeClaire Manufacturing Co.*	706
MacLean Power Systems	628
Monarch Industries Ltd.	728

Sand Mold/Core Making - Rapid Prototyping

Badger Alloys Inc.	521
Denison Industries Inc.*	822
LeClaire Manufacturing Co.*	706

Sand Mold/Core Making - Sand Molding Equipment

Impro Industries USA Inc.*	828
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Sand Mold/Core Making - Sand Preparation & Testing

Bibby-Ste-Croix	409
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Cast in North America Exhibitor Directory (As of 2/21/2025)

A

Aalberts Surface Technologies* 621

12202 Newburgh Road
Livonia, MI 48150
info@aalberts-st.us
<http://www.aalberts-ht.us>
(734) 464-8000

Aalberts surface technologies is the world's leading provider of heat treatment technologies, services, and solutions. Aalberts has been in business for more than 80 years and has over 200 facilities across 30 countries. Nationwide, Aalberts surface technologies has 14 locations that are capable of the following processes: austempering, carbo-austempering™, marquenching, HIPing, vacuum brazing, ion nitriding, gas nitriding, and vacuum heat treating. Aalberts also provides NitroSteel (a green alternative to chrome) in lengths up to 24ft. and 36" in width. To learn more about us, visit at <https://aalberts-ht.us/>

Alliant Castings* 610

1200 West 3rd Street
Winona, MN 55987
<http://www.alliantcastings.com>

Atlas Foundry Company Inc 721

601 N Henderson Ave
Marion, IN 46952-3348
<http://www.atlasfdry.com>
(765) 662-2525

Atlas Foundry is a jobbing and production foundry specializing in Class 25, 30, and 35 Gray Iron Castings weighing less than 50 pounds. We utilize Disamatic Molding Machines to produce molds for our castings. Production volumes range from 100 mold releases to several thousand molds per release. Our foundry is located in Marion, Indiana about 60 miles to the northeast of Indianapolis. Some of the major markets Atlas Foundry serves include trucking, agriculture, construction, pumps, Hydraulic parts, compressors, bearings, stadium seating, marine, and industrial equipment.

B

Badger Alloys Inc.* 521

5120 W. State St.
Milwaukee, WI 53208-2616
<http://www.badgeralloys.com>
(414) 258-8200

World-class castings delivered" has been our commitment to customers for 50+ years. Badger Alloys is a family-owned manufacturing group that includes a foundry, pattern facility, machine shop, experienced engineering team, and rapid-response technologies. With 200 alloys poured on site, we can meet your needs for simple to heavily cored, complex castings, from 10 to 4,000+ pounds. We specialize in creating impellers and other pump and valve parts across many industries. Learn more at badgeralloys.com. Visit us today at Booth 521!

Bibby-Ste-Croix 409

6200 Rue Principale
Sainte-Croix, QC G0S 2H0
Canada
<https://bibby-ste-croix.com/>
(418) 926-3262

Bibby-Ste-Croix operates a foundry in Ste-Croix de Lobtinière, Québec, with sales points in Hamilton, Ontario, and Medicine Hat, Alberta. We employ over 300 people. Our core business includes high-quality cast products like soil pipes and fittings. Our OEM division specializes in custom-molded products for transportation, industrial, agricultural, and maritime sectors, including urban accessories and tactile plates. We manufacture parts from 1.5 to 3000 lbs, with a capacity of 45,000 tons per year.

Buck Company* 614

897 Lancaster Pike
Quarryville, PA 17566
<https://www.buckcompany.com/>
(717) 284-4114

Buck Company offers a unique experience for both ferrous and non-ferrous castings customers. ISO-9001:2015 certified, Buck Company pours Ductile Iron, Malleable Iron, Aluminum, Bronze, and Brass. At Buck Company, our customers enjoy access to rapid prototyping options, flexible production quantities, and engineering support. We also offer an on-site metallurgical lab and you'll be

supported by an exceptional customer service team that puts customer needs first.

C**CaneKast** **710**

1111B S Governors Ave #6061
Dover, DE 19904
<http://www.canekast.com>
(419) 351-3987

CaneKast™ is creating a coast-to-coast network of non-ferrous casting facilities that provide quality products, on time. Our unique business model uses the latest technology and provides a scalable service model no matter the order size or casting requirement. We treat our employees and customers like family, whether you've been with us for five days or 50 years.

Casting Solutions LLC* **511**

2345 Licking Road
Zanesville, OH 43701
<http://www.castingolutions.com>
(740) 452-9371

We strive to be the lowest cost gray cast iron foundry in the world. We know to be successful in today's competitive environment, we must satisfy our customers with quality products at competitive prices and deliver on time. We believe customer satisfaction must be consistently achieved with up-to-date equipment manned by a team of skilled, involved people – and that the customer is an integral part of that team.

Creaform **714**

4903 W. Sam Houston Pkwy N
Ste A 400
Houston, TX 77041
<http://www.creaform3d.com>
(855) 939-4446

Creaform develops, manufactures, and sells cutting edge 3D portable and automated measurement technologies that provide innovative solutions for applications such as 3D scanning, reverse engineering, quality control, non-destructive testing, and product development. Its products and engineering services redefine the boundaries in a variety of industries, including automotive, aerospace, manufacturing, power generation, and more.

D**Denison Industries Inc.*** **822**

22 Fielder St.
Dension, TX 75020
<http://www.denisonindustries.com>
(903) 786-6500

Denison Industries is your one-stop shop for premium aluminum castings. We employ a complete engineering staff that can assist component and casting engineers from design to fit and function in order to accommodate the end user's casting requirements. DI is located in Denison, Texas in the North Texas Regional Airport. Our facilities total of 229,925 sq feet with 10,000 sq feet of office area: 100,00 sq ft of warehouse space and a 119,925 sq-ft foundry. We can product parts sized from 1 lb to 3,000. Our current-poured alloys are Aluminum

Diversified Pattern and Engineering **613**

100 Progress Way PO Box 230
Avilla, IN 46710
<http://www.diversifiedpatternco.com>
(260) 897-3771

E**Eagle Group Manufacturers*** **519**

5142 Evanston Ave
Muskegon, MI 49442-4852 United States
<http://www.eaglegroupmanufacturers.com>
(231) 788-2351
(231) 788-5515

The Eagle Group consists of three separately run and employee owned companies. Eagle Alloy is a shell-mold foundry pouring many grades of carbon and stainless steels. We offer a broad range of value-add services in castings between 1 lb. and 450 lbs. Eagle Precision Cast Parts is an investment casting foundry pouring both ferrous and non-ferrous castings. Our castings are manufactured to precision tolerances of +/- .005 inch per inch with surface finishes of 125 RMS. Eagle CNC Technologies specializes in CNC machining of both ferrous and non-ferrous castings, forgings, bar stock and burn outs.

Eck Industries Inc.* **515**

1602 N. 8th St.
Manitowoc, WI 54220
<https://eckindustries.com/>
(920) 682-4618

Eck Industries, Inc. is a family-owned sand and permanent mold foundry providing premium aluminum castings in defense, aviation and commercial markets. Since 1948, Eck has been a leader in the production of high-strength A206 aluminum castings. We pour over

REVOLUTIONIZE YOUR METALCASTING WITH CASTBALL

HIGH-TECH SPHERICAL CERAMIC SAND FOR SUPERIOR
QUALITY, PERFORMANCE, AND SUSTAINABILITY.



CastBall sets the global standard for excellence, offering the ultimate solution to elevate your metalcasting while prioritizing Environmental, Social, and Governance (ESG) principles.



Engineered with innovation, CastBall boasts unmatched quality, precision, and sustainability, tailored to meet the needs of our valued customers.



Our commitment to ESG values means that CastBall not only delivers exceptional results but also contributes to a more sustainable future for metalcasting.

Discover why our **premium ceramic sand** is the perfect ESG-conscious solution for your metalcasting needs.

Contact us now to experience excellence and Sustainability: sales@sintexminerals.com

We invite you to visit us at booth 829 during CASTEXPO.

SINTEX
NORTH AMERICA

CASTBALL
CERAMIC SAND



GRUPO CURIMBABA

20 aluminum alloys and are growing with automation. Quality: ISO 9001:2015 and AS9100D. Military: CMMC Level 2 Certification and ITAR Registered. www.eckindustries.com

Elyria & Hodge Foundry Group* **629**

120 Filbert St.
Elyria, OH 44035-5355
<http://www.elyriafoundry.com>
(440) 322-4657

For over 120 years, Elyria Foundry and Hodge Foundry have been leading manufacturers of large gray and ductile iron specialty castings, ranging from 50 to 250,000 pounds. Today, we are a fast-paced, technically advanced, customer focused operation. While maintaining a strong presence in the global mining, energy and industrial markets, the foundry's diverse capabilities are regularly applied in the manufacturing of castings for a variety of end applications and markets.

F

FA Foundry **718**

Galeana 501
El Lechugal
Santa Catarina, Nuevo Leon 66376
Mexico
<http://www.fafoundry.com>

FA Foundry is the most reliable grey and ductile iron foundry in the international market. We offer integral solutions that contribute to improve our CLIENT'S COMPETITIVENESS through production, machining, heat treatment for stress relief for industrial cast iron parts, as well as engineering services for the design, fabrication, maintenance, and reparation of patterns.

Farrar Corporation* **712**

301 Levee Dr.
Manhattan, KS 66502
<http://Farrarusa.com>
(785) 537-7733

With over 85 years of quality American manufacturing behind us, Farrar Corporation is a leading supplier of ductile iron castings and quality machined components. Our production facilities include a fully outfitted pattern shop, foundry and CNC machine shop. Our diverse manufacturing capabilities allow us to offer a range of innovative and streamlined services that include pattern design, ductile iron castings, heat treating, CNC machining, and assembly—all certified to ISO 9001:2015 quality standards.

Foundrion Group* **729**

1 Sparks Ave
North York, ON M2H 2W1
<http://www.foundriongroup.com>
(416) 225-6240

The Foundrion Group brings together eleven 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

Goldens' Foundry and Machine Company* **510**

600 12th Street
Columbus, GA 31901
<http://www.gfmco.com>
(706) 323-0471

Goldens' Foundry and Machine Company is your single source solution for cast, machined, and assembled gray and ductile iron components for capital and durable goods industries. We have been vertically integrated since the 1800's and have very well established and experienced in-house machining operations.

Griffin Industries* **506**

1898 Pride Terrace
Green Bay, WI 54313
<http://griffinindustries.com>
(920) 434-4440
(920) 434-4444

Griffin Industries is a small business recognized for short lead times, highly skilled staff, and unmatched reliability in prototyping and low-volume production. We manage every step of the process, from expert CAD design and optimized tooling to casting, machining, and final inspection. Using advanced tools like MAGMA solidification software and ZEISS CMMs, we deliver parts of the highest quality. Backed by strong foundry partnerships, we meet your timeline, budget, and material needs. Our dedicated project managers streamline communication and ensure your project's success at every stage.

H

Harmony Castings LLC* **719**

251 Perry Highway
Harmony, PA 16037
<http://www.harmonycastings.com>
(724) 452-5811

Harmony Castings specializes in aluminum casting using the innovative V-Process, ideal for complex shapes and high-quality parts. The V-Process enables the production of parts with thinner walls, zero draft, and exceptional precision. It reduces machining time, increases yield, and provides cost-effective solutions with faster lead times. Harmony is committed to innovation and customer satisfaction, we tailor our services to meet your specific needs, whether it's for rapid prototyping or production volumes.

HyCast LLC* **724**

905 W Depot
Fairfield, IA 52556
<http://www.hycastfoundry.com>
(641) 209-4100

HyCast, LLC, located in Fairfield, Iowa, U.S.A. is rising to be the premier gray and ductile iron casting foundry of the Midwest. With multiple molding lines and a dedicated staff, we can support your gray and ductile iron casting needs. We are prepared to help you from the casting design for manufacturability and quoting process, all the way to shipping your product out the door.

HyPro Inc. **622**

600 Jefferson St.
Waterford, WI 53185
<https://www.hypro.com/>
(262) 534-5141

From concept to completion, HyPro Incorporated is a full-contract manufacturing leader, supplying machined castings, forgings, and complex assemblies.

I

Imperial Casting Company Inc.* **611**

4440 Chisholm Rd.
Florence, AL 35630
<http://www.imperialcastinginc.com>
(256) 766-8720

Impro Industries USA Inc.* **828**

21680 Gateway Center Drive
Ste 368B
Diamond Bar, CA 91765-5492
<https://www.improprecision.com>
(909) 396-6525

Impro is a leading global manufacturer of high-precision, high-complexity, and mission-critical components for diverse end markets. We offer custom castings and machined metal components as well as surface treatment services to a diverse global customer base. The foundation of our global leadership is our integrated business model and our combined ability to provide customers with one-stop solutions.

K

Kimura Foundry America* **619**

789 Boomer Way
Shelbyville, IN 46176
<http://www.kimurafoundry.com>
(317) 604-5158

L

LeClaire Manufacturing Co.* **706**

3225 Zimmerman Dr.
Bettendorf, IA 52722
<http://www.leclairemfg.com>
(563) 332-6550

LeClaire Manufacturing has been in business since 1966 as a family-owned and -operated sand and permanent mold aluminum casting supplier. In addition to aluminum castings, we offer value-added services such as engineering and tool building, heat treating, core making, real-time x-raying, impregnating, anodizing, machining, and painting. As our equipment, technology, and processes continue to grow, we see endless possibilities in the future of aluminum casting solutions.



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With over 50 years of excellence,
Pillar is your partner for induction melting solutions.

For more information
please contact Pillar at
800-558-7733



21905 Gateway Road • Brookfield, WI 53045 • 262-317-5300

www.pillar.com

Lethbridge Iron Works (Leth Iron)* 620

720 32nd St. N.
Lethbridge, AB T1H 5K5
Canada
<http://lethiron.com>
(403) 329-4242

Lethbridge Iron Works (Leth Iron) is a green sand jobbing foundry located in Lethbridge, Alberta. With a history spanning more than 125 continuous years of operation and 4 generations of family ownership, Leth Iron is proud to operate a modern production foundry of over 110,000 square feet. A strong focus on relationships and an ISO 9001 Quality Assurance Program ensure iron castings that exceed expectations. Moulding lines: 2 - Hunter-10 Automated Moulding Machines (14"x19") 3 - Hunter-20 Automated Moulding Machines (20"x24") 1 - SPOMATIC Automated Moulding Machine (32"x44")

Ligon Permanent Mold Group* 818

3312 Lakeshore Dr.
Sheboygan, WI 53081
<https://ligonpermanentmold.com/>

Providing Turnkey Aluminum Casting Solutions From Prototype to Production. The Ligon Permanent Mold Group is 4 vertically integrated permanent mold foundries that feature world-class permanent mold and semi-permanent mold aluminum castings.

- Multiple Casting Processes – Static Pour, Tilt Pour, Low Pressure, Pump, and Semi Permanent
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- Extensive In-House Machining
- Cosmetic Finishing with State-of-the-Art Powder Coating
- Complete Quality Control Systems

M

MacLean Power Systems 628

200 W. Rock St.
Mankato, MN 56001
<http://www.dotson.com>
(507) 345-5018
(507) 299-9429

MacLean Power Systems is a leading manufacturer of ductile iron castings to various markets, including agriculture, electrical, construction, heavy truck, railroad, oil & gas, and industrial. Our capabilities include in-house tooling, machining, painting, heat treatment, and galvanizing. MacLean Power Systems supplies the industry with the shortest lead times, award-winning engineering, and a dedicated account team. If you are tired of unstable

suppliers and inconsistent quality, it's time to experience the "MPS Difference".

Monarch Industries Ltd. 728

51 Burmac Rd. PO Box 429
Winnipeg, MB R2J 4J3
Canada
<http://www.monarchindustries.com>
(204) 786-7921

O

Omega Castings Inc. 513

301 Fritz Keiper Blvd.
Battle Creek, MI 49037
<http://www.omegacastings.com>
(269) 968-8105
(269) 968-1661

We want to design and create high quality world-class heat treatment equipment that is delivered on time. Our company has been around for 50 years, and we have done this successfully with hundreds of customers through this time. There are three reasons that our customers tend to come to us with. Those are: 1 – They are looking for a world class cast-link belts and drive drums. 2 – They need furnace infrastructure such as rollers and radiant tube. 3 – They are looking for a custom design to help them fill a niche in the market.

Osco Industries Inc.* 529

734 11th St.
PO Box 1388
Portsmouth, OH 45662
<http://www.oscoind.com>
(740) 354-3183
(740) 353-1504

P

Pier Foundry & Pattern Shop* 523

51 State St.
Saint Paul, MN 55107-1408
<http://www.pierfoundry.com>
(651) 222-4461

Product Development & Analysis (PDA) LLC* 820

1776 Legacy Cir Suite 115
Naperville, IL 60563
<http://www.PDA-LLC.com>
(630) 505-8801
(630) 585-3006

Providing design, engineering, contract research and contract manufacturing solutions for over 32 years to foundries, tool shops and OEMs in various alloys and

processes in transportation, military, aerospace, mining, construction, general engineering, and medical devices for new products, redesign, reverse engineering and failure analysis. PDA specializes in Modernization using Industry 4 relevant technologies such as Digital Transformation, AI/ML Data Analytics, Additive Manufacturing, Advance Process Simulation to improve productivity and efficiency.

R**Rochester Metal Products Corp.* 618**

616 Indiana Ave
Rochester, IN 46975
<http://www.RochesterMetals.com>
(574) 223-3164

S**St. Marys Foundry Ltd.* 720**

405 E. South St.
Saint Marys, OH 45885-2540
<http://www.stmfoundry.com>

T**Talumex 415**

Av. Privada Central No. 300
Villa de Reyes, SLP CP 79525
Mexico
https://www.facebook.com/talumex/?locale=pl_PL
+48 795 139 424

Castings Member of Thoni Alutec World Wide Presence
We provide a wide range of services starting with casting development ,mould design, through tooling production, casting and machining, and ending with painting and assembly. We specialise in the production of aluminium castings. Our goal is to provide technical high integrity Aluminium Castings international industries. Through innovative product and process development we make full use of materials' mechanical properties.

Tooling & Equipment International (TEI)* 625

12550 Tech Center Dr.
Livonia, MI 48150
<http://www.teintl.com>
(734) 522-1422
(734) 522-1780

TEI builds prototype and low volume production castings for a wide variety of industries. We have extensive experience in casting a range of aluminum alloys, including alloys for aerospace castings. Furthermore, we also are able to machine prototypes from billets when applicable. We specialize in the rapid manufacture of prototype castings; our state of the art foundry is highly equipped to make accurate castings in the least amount of time.

TPI Arcade Inc.* 708

7888 Route 98
Arcade, NY 14009
<http://www.tpicast.com>
(585) 492-0122

TPI Arcade is the most advanced V-Process aluminum foundry in the US. We provide turnkey aluminum cast solutions including casting, machining, finishing and sub-assembly utilizing the innovative vacuum process. Compared to traditional sand casting, this process produces smoother surface finishes, tighter tolerances and thinner walls offering customers an improved product.

W**Waupaca Foundry* 723**

1955 Brunner Dr.
Waupaca, WI 54981
<http://www.waupacafoundry.com>
(715) 258-6611

2025 Casting Technology Showcase

Steel Grip Inc.

Steel Grip Inc. is a leading manufacturer of stocked personal protective equipment (PPE) designed for the molten metal industry. Our product range includes aluminized garments, high-heat gloves, secondary garments, and much more. We also offer custom solutions to meet your specific needs. Stop by our booth to explore our latest molten metal gloves and lightweight PPE, designed to enhance both comfort and protection for your employees.



Steel Grip Inc
800-397-8390
www.steelgripinc.com
Booth 2523

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Your Experts in Foundry Tooling Design and Fabrication

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TOOLING TECHNOLOGIES
PATTERNS - MOLDS - CORE BOXES
BOOTH #1048

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www.fortetd.com
Booth 1048

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ELEKTRIM MOTORS
847-524-1074
www.elektrimmotors.com
Booth 1113

Laempe Reich

At the core of great foundries. Laempe's CoreCenter is a core-shooter, sand mixer, and gas generator—all under a single controller. Use vertical and horizontal tooling, or a combination of up to 6 parts with no machine changes, or use your existing tooling with a simple conversion. Laempe Reich is unique in that we have a research, complete testing, and core production facility.



Laempe Reich
205-655-2121
www.LaempeReich.com
Booth 1337

REFCOTEC

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REFCOTEC Inc.
330-683-2200
www.refcotec.com
Booth 1737

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Carrier Vibrating Equipment
502-969-3171
<https://carriervibrating.com>
Booth 1525

Hoosier Pattern

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Hoosier Pattern, Inc.
260-724-9430
www.hoosierpattern.com
Booth 1455

Foundrion Group

The Foundrion Group unites eleven leading foundries across the U.S. and Canada, specializing in sand casting. Using decades of expertise and innovation, we pour 100+ alloys for diverse industries, including aerospace, fire protection, and waterworks. With cutting-edge technology and industry-leading quality, we excel in complex, high-precision castings. Let's tackle your toughest projects. Visit booth 729 to discuss your casting needs.



Foundrion Group
+1 647-294-6151
www.foundriongroup.com
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Ajax TOCCO Magnethermic

Ajax TOCCO continues to be the trusted leader in induction melting equipment and solutions. Our proven applications include a complete line of coreless and channel furnaces for ferrous and nonferrous melting and holding applications. From simple melt-and-pour systems to sophisticated computer-controlled, energy-efficient melt shops, our line of induction equipment, power supplies, and support provide the most reliable, accurate, and economical solutions for your business.



Ajax TOCCO Magnethermic
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www.ajaxtocco.com
Booth 1519

CAN-ENG Furnaces International Ltd.

Founded in 1964, CAN-ENG Furnaces International Ltd. is a global leader in the design and manufacture of industrial heating and processing furnaces. With a track record of supplying equipment to world-class manufacturers across 17+ countries, CAN-ENG specializes in innovative, high-volume batch and continuous systems, tailored for tomorrow's demanding foundry applications. Leveraging our expertise, CAN-ENG is committed to providing the solutions and support that drive your success.



CAN-ENG Furnaces International Ltd.
905-356-1327
www.can-eng.com
BOOTH 1154

LaempersSM

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Laempe Reich
205-655-2121
www.LaempeAR.com
Booth 1337

PEOPLE. TECHNOLOGY. SUCCESS.

We are an international market and technology leader of induction systems for melting, pouring and holding of ferrous and nonferrous metals.



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732-932-6128
www.abpinduction.com
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Norican Group leads the foundry industry with unmatched expertise and innovation, offering "A Complete Foundry Solution" for the lifetime of your production. Our world-class brands—DISA molding, Wheelabrator shot blasting, StrikoWestofen melting, ItalPressGauss die casting, Simpson sand mixing, and Monitizer IIoT tools—empower foundries worldwide to achieve superior productivity, flexibility, and consistency, meeting rising industry demands with excellence and reliability.

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706-884-6884
<https://www.noricangroup.com/>
Booth 1936



Norican Technologies

DISA
ItalPressGauss
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SIMPSON
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Wheelabrator

Viking Wheel Blast Systems

Combining quality workmanship with unparalleled customer service, Viking is a leading manufacturer of industrial shot blasting machines customized to your parts-specific-needs. At Viking, we do not simply match your part to the closest machine size that will work—our engineering team matches our cleaning equipment to your part. We're so confident in our industrial shot blast equipment that we offer industry-leading warranties.



Viking Wheel Blast Systems
800-835-1096
www.vikingcorporation.com
Booth 1428

Inductotherm Corp.

Inductotherm offers customized solutions for your 21st century challenges. Specializing in advanced induction melting, heating, holding, and pouring systems for metal producers worldwide, their digital solutions and state-of-the-art equipment allow customers to take full advantage of big data and analytics. Since 1953, they've continued to provide customers with the competitive edge, consistent growth, and uninterrupted service.

Inductotherm Corp.
800-257-9527
www.inductotherm.com
Booth 1537



Sintex Minerals and Services Inc.

CASTBALL ceramic sand has been designed to produce casting with high quality granting less expansion-defects as veining, metal penetration and burn-on, also providing high dimensional accuracy.

Sintex Minerals and Services Inc.
281-239-2799
sales@sintexminerals.com
Booth 829



Flexovit USA, Inc.

Flexovit is proud to announce the launch of Capstone™! Capstone™ is a brand new, patent pending, grinding wheel designed as an alternative to Type 6 and Type 11 cupwheels. With four full layers of fiberglass reinforcement, a built-in 20 degree grinding angle, a spin on zinc hub, and its unique shape, Capstone™ is a safer and more versatile option than standard cupwheels. Flexovit USA, Inc. is a manufacturer of high productivity abrasive products for the professional. Contact Jeff Franke, Foundry & Applications Manager, at jfranke@flexovitabrasives.com to schedule an evaluation and demo.

Flexovit USA, Inc.
800-689-3539
www.flexovitabrasives.com
Booth 2936



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205-655-2121
www.TheCoreRoom.com
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at

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& METALCASTING CONGRESS
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Visit the **NEW AFS Institute Booth #655** for a live demonstration and enter to win a free module of choice for 30 days. Ten winners will be announced and notified after the show.

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Mark A Lamoncha,
Humtown President & CEO

Humtown, the global leader in the production of sand cores and molds, is committed to introducing young people to advanced manufacturing. Watch the videos below to see how even middle school students can quickly “Learn and Lead” – providing tours of your facility to introduce their peers to careers in manufacturing.



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THROUGH THE LENS OF MY FRIENDS:
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LED BY YOUNG ADULTS

GET
THE
BOOK!



Transform “employees” into incentivized and productive Industrial Athletes!

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2025 Gold Medals

Bruce Dienst

President of Norican Group North America, LaGrange, GA

The **Peter L. Simpson Gold Medal** ... for his dedication over four decades to advancing the metalcasting industry, demonstrating exceptional leadership, innovation, and a deep commitment to promoting its growth. His strategic insight and expertise have driven impactful advancements, earning global recognition and respect for the field. Known for his integrity and dedication, Bruce has also contributed to community service and education at AFS, FEF and CISA, using his platform to inspire and inform others about the industry's achievements. Bruce exemplifies the qualities celebrated by the AFS Peter L. Simpson Gold Medal, embodying the standards of excellence and dedication that the award honors.



Robert Scholz

Senior Project Manager at TRC Environmental Corporation, West Allis, WI

The **William H. McFadden Gold Medal** ... for his invaluable contributions to AFS and the metalcasting industry, particularly in education and knowledge sharing. His career has been dedicated to advancing industry safety and employee health through innovative solutions. Known for his unique approach to problem-solving, Bob continuously seeks new ways to address longstanding challenges in industrial ventilation and hygiene. His experience, ongoing education, and commitment to teaching—including his work on foundational industry guidance and volunteer ESL instruction—have left a lasting impact on the industry and all who have learned from him. One humble man, he unselfishly provides others with an intense learning adventure.



2025 Award of Scientific Merit

Paul David Paulsen

President, Furness – Newburge, Inc., Versailles, KY

The **AFS Award of Scientific Merit** ... for his successful career in the foundry industry, driven by his commitment to environmental sustainability and energy reduction. A respected expert on advanced oxidation processes and bond consumption, he has made significant contributions to environmental remediation and sustainable energy within metalcasting. As a dedicated member of the Green Sand Committee, he has consistently championed eco-friendly initiatives and educated future metalcasters, with many committee ideas inspired by his work. An active leader in the AFS Molding Division, his extensive papers and presentations showcase his invaluable knowledge and innovation in the field.



2025 Service Citations

Jay Morrison

VP Equipment Sales/Eastern Region Sales Manager, Carpenter Brothers, Inc., Mequon, WI

The **AFS Service Citation** ... for his service in the metalcasting industry for 25 years, earning widespread respect through his impactful work on both the supply and foundry sides. His service on the AFS Board of Directors coupled with leadership roles with the AFS Western Michigan Chapter and Central Indiana Chapter showcase his commitment to advancing industry standards. Additionally, Jay has bridged generational gaps by fostering collaboration between experienced and new professionals, and his work with educational programs fosters a strong future for the industry.



Colbey Solis

Plant Manager, Oil City Iron Works, Corsicana, TX

The **AFS Service Citation** ... for his service in AFS chapter leadership and encouraging area students. Colbey became Chair of the AFS Texas Chapter and worked with former Chairs and new volunteers to revive the Chapter, successfully hosting its first Regional event in six years, bringing renewed energy from local foundries. Colbey's efforts helped the Chapter grow, regain financial strength, and support educational goals, all while he managed a successful ferrous foundry. Further, his commitment to speaking with student chapter members encourages young people to select metalcasting for their career direction.



2025 Jozef Suchy Medal

Dennis Dotson

Retired, The Dotson Company, Mankato, MN

The **WFO Jozef Suchy Medal** ... for his excellent dedication and contributions to the industry through the WFO and the American Foundry Society, with a special mention to his Executive period in the WFO Board.



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 2024:

Grede LLC- Reedsburg (Reedsburg, WI)

Million-hour increment of 1 million hours was achieved on 12/31/2024

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Technical Council Officers

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Technical Advisor
Brunswick Corp.

Vice Chair:
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Product Services Engineering Manager
Allied Mineral Products

Additive Manufacturing Division

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Dave Rittmeyer
Director Business Development
Matthews Additive Technologies

Program Chair:
Kelley Kerns
Director of New Business Development
HA Group

Aluminum and Light Metals Division

Chair:
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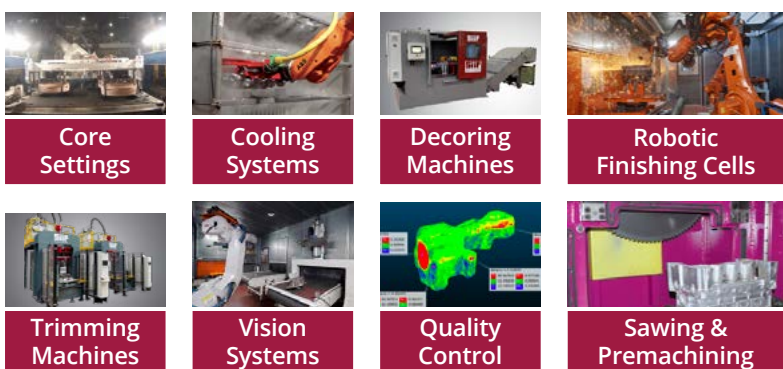
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0-9

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A

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Akron Porcelain & Plastics
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AMValor Cluny
AMV Soluciones SL
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Anderson Global
Andritz Durametal
Anthracite Industries Inc.
Applied Ceramics Inc.
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 Group
ASK Chemicals
ASK Chemicals Canada Corp.
ASK Chemicals de Mexico S de RL de C V
ASK Chemicals Hi-Tech LLC
ASK Chemicals Manufacturing S de RL de CV
ASK Chemicals Metallurgy Inc.
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Aurora Metals Division LLC (Hiler Industries)
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Automation Solutions of America
Automation Systems & Design Inc.
Avalon Precision Metalsmiths
A W Bell Pty. Ltd.
A Y McDonald Mfg Co
Azterlan

B

B&L Information Systems Inc.
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Baker Manufacturing Co.
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BCI Solutions Inc.
Bearon Manufacturing Inc.
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Bentonite Performance Minerals LLC
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Bingham & Taylor Corp.
Blast Cleaning Technologies
Blastec Inc.
BlueScope Recycling and Materials LLC
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Borchert Associates LLC
Brad Foote Gearing
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Brokk Inc.
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BRP-US Inc.
BRP-US Inc.
Brunswick Corp.
Buck Co. Inc.
Burnham Corp.
Burnham Hydronics

C

CAC Group
CADDIS Systems
Cadillac Casting Inc.
C A Lawton Minster
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Calumet Brass Foundry Inc.
Canfield & Joseph Inc.
Capital Refractories Inc.
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Carley Foundry Inc.
Carolina Metal Castings
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Carrier Vibrating Equipment Inc.
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Casting Solutions

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Caterpillar de Mexico
Caterpillar Hodges Casting Products
Caterpillar Inc.
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Centrifugal Castings Inc.
Century Brass Works Inc.
CFM Corp.
Charlotte Pipe & Foundry Co.
Charter Aarrowcast
Charter Dura-Bar
Charter Manufacturing
Charter Manufacturing Co.
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Chicago Protective Apparel
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Clansman Dynamics USA
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Commercial Insurance Associates
Consarc
Consolidated Metco Inc.
Consolidated Mill Supply Inc.
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Cumberland Foundry Co. Inc.
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Curto-Ligonier Foundries Co.
Cushman Foundry Co.
Custom Castings Limited
Customized Energy Solutions

D

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Decatur Foundry Inc.
Dee Manufacturing
Deere & Co.

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E

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 Eagle Aluminum Permanent Mold Castings
 Eagle CNC Technologies
 Eagle Group Manufacturers
 Eagle Precision Cast Parts Inc.
 EBAA Iron Inc.
 EBAA Iron Sales Inc.
 Eck Industries Inc.
 Effort Foundry Inc.
 Eirich Machines Inc.
 EJ
 Electric Controls & Systems Inc (ECS)
 Elemental Metals
 Elkem Metal Canada Inc.
 Elkem Silicon Products
 Elkhart Brass Mfg Co. Inc.
 Elyria Foundry Co.
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 Emerson Automation Solutions Appleton Group
 EMSCO Inc.
 Engis Corporation
 Enterprise Casting Corporation
 Environ Energy
 Epcor Foundry
 Epic Machine Inc.
 EQI Ltd.
Equipment Manufacturers Intl. Inc. (EMI)
 Erie Bronze & Aluminum Co.
 Ermak Foundry & Machining Inc.
 ETA Engineering Inc.
 Everett Industries LLC
 Excal Inc.
 ExOne
 Expert Cores of Wisconsin
 EZG Manufacturing

F

Fairmount Foundry Inc.
 Falcon Foundry Co.
 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.
 Finite Solutions Inc.
 FISA North America Inc.
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 Flexovit USA Inc.
 Flow Science Inc.
 Flowserve Corp.
 Flowserve Inc.
 Flury Foundry Co.
 Fonderie Laperle Inc.
 Fonderies Bibby Ste-Croix Inc.
 Ford Meter Box Co. Inc.
 Forterra
 Forte Tooling Technologies
 Foundrion Group
 Foundry Equipment Company
 Foundry Products Inc.
 Foundry Solutions & Design
 Foundry Solutions Metallurgical Services Inc.
 Franklin Iron Works Inc.
 Fresno Valves & Castings Inc.
 Friends Foundry Inc.
 Fritz Winter North America LP
 Fujifilm Dimatix Inc.
 Fusium
 Fusium - BSL Foundry
 Fusium - TMA Foundry

G

G & W Electric Co./Manufacturer's
 Brass and Aluminum Foundry
 Galt Steel Foundry
 Gamma Foundries Inc.
 Gartland Foundry Co.
 Gemco Engineers B V
 Gemini Inc.
 General Chemical Corp.
 General Foundry Service Corp.
General Kinematics Corp.
 General Motors
 General Motors de Mexico S A de C V
 General Motors Fairfax
 General Motors of Canada Ltd.
 Goldens' Foundry & Machine Co.
 Graham-White Mfg Co.
 GrayMatter Robotics Greater Rockford
 Chamber of Commerce

Great Lakes Castings LLC
Grede Castings
 Green Diamond Performance Materials
 Green Packaging Inc.
 GreenSand Controls Inc.
 Griffin Canada Inc.
 Griffin Industries Corp.
 Ground Vehicle Systems Center
 Guardian Bandsaw
 Guardian Software Systems Inc.
 Gudgeon Thermfire Intl. Inc.

H

H & H Castings Inc.
HA Group
 HarbisonWalker International
 Harmony Castings LLC
 Harrison Steel Casting Co.
 Harry H Reich Co.
 Henry Perkins Co.
 Henry Pratt Co.
Henschel Andromat 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
 H Kramer & Co.
 Hodge Foundry Inc.
 Hodge International
 Honsa Ergonomic Technologies
Hoosier Pattern Inc.
 Howell Foundry LLC
 Hsin Lien Machinery Parts Co. Ltd.
Humtown Products
 Hunter Foundry Machinery Corp.
 Huntington Ingalls Industries
 Huttenes-Albertus GmbH
 HWI a member of Calderys
 Hycast Foundry LLC

I

I2r Power
 ICD Melting Solutions
 ID Castings LLC
 IDEX Corp.
 IMERYS
 Imperial Casting Company Inc.
 Impro Industries Mexico S de RL de CV
 Impro Industries USA Inc.
 Impro Industries USA Inc.

Indquip Co. LLC
 Induction Iron Inc.
 Induction Technology Corp.
Inductotherm Corp.
Inductotherm Group Canda Ltd.
 Industrial Associates Inc.
 Industrial Ceramic Products Inc.
 Industrial Magnetics Inc.
 Industrias John Deere SA de CV
 Industry 63
 Integra Castings Inc.
 InterTest Inc.
 Iron Age Designs
 Ironcast de Frontera
 I Schumann & Co.
 ItalPresseGauss
 IVI Inc.
 IVI South Inc.

J

JOEST Inc.
 John Deere
 John Deere Co.
 John Deere Coffeyville Works Inc.
 John Deere Des Moines Works
 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 S A
 John Deere India Pvt. Ltd.
 John Deere Ottumwa Works
 John Deere Power Systems
 John Deere Turf Care
 John Deere Waterloo Works
 John Deere Waterloo Works
 Joy Mark Inc.
 JR Hoe & Sons Inc.
 JuggBot 3D
 J Walter Miller Co.

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.
Kore Mart Ltd.
Kurtz Bros Inc.
Kuttner North America

L

LA Aluminum Casting Corp.
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.
Lindberg/MPH
Lite Magnesium Products Inc.
Littlestown Foundry Inc.
Lodge Mfg. Co.
Louis Meskan Foundry Inc.
LPM North America Inc.

M

MacKenzie Castings LLC
Magaldi Technologies LLC
MAGMA Foundry Technologies Inc.
Magneco/Metrel Inc.
Magnus Metal
Mahoney Foundries Inc.
Mancuso Chemicals Ltd.
Manitowoc Grey Iron Foundry Inc.
Manley Bros of Indiana Inc.
Matthews Additive Technologies
Matthews Architectural Products
Matthews International Corp.
MCC International Inc.
McWane Ductile
McWane Inc.
ME Global Inc.
Melling Engineered Aluminum Castings
Mercury Castings
Mercury Marine
Meritor Inc.
Metalcasting Design LLC
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
Metaltec Steel Abrasive Co.
MetalTek International
MetalX
MIA Manufacturing Inc.
Michigan Pneumatic Tool Inc.
Mid City Foundry Co.
Midland Manufacturing Co.
Midvale Industries Inc.
Midwest Aerospace Casting
Miller and Company
Minerals Technologies
Minerals Technologies Inc.
Miracle Steel-KOTAR
Mitchell Aerospace Inc.
Modern Equipment Co LLC
Molten Metal Equipment Innovations
Monett Metals Inc.
Moore M/R Specialty Co.
Morgan Advanced Materials
Morgan AM&T
Morris Bean & Co.
Motor Wheel LLC
MPM Infosoft Pvt. Ltd.
MPM Infosoft - Sandman
MPM Private Limited
MPS Mankato LLC
MT Systems Inc.
Mueller Canada
Mueller Co.
Mueller Water Products
Multi-Cast LLC
Multi-Vac a division of M & W Shops

N

National Peening Statesville
National Peening Wilmington
Naval Foundry & Propeller Center
Naval Foundry & Propeller Shop
NCDMM
NCDMM - America Makes
NCDMM - Blairsville HQ
Nederman MikroPul
Neeah Foundry Co.
Neptune Technology Group Inc.
New London Engineering
Nextthermal Corporation
Nimr & Chapman Manufacturing (Pvt.) Ltd.
Nohr LLC
Non-Ferrous Cast Alloys Inc.
Norican Group
Northfield Manufacturing Inc.
NorthStar Products

North Star Products
Norton | Saint-Gobain
Norwood Foundry Ltd.
NOV Inc.
NovaCast Solutions USA Inc.
NovaCast Systems AB
Novis Works LLC
NRB Metals LLC

O

Oil City Iron Works Inc.
Olson Aluminum Castings Inc.
Osco Industries Inc.
Otto Junker USA (Junker Inc.)

P

P&THE Manufacturing LLC
P&W Foundry Inc.
Pacific Alloy Casting Co. Inc.
Padnos
Palmer Engineered Products
Palmer Foundry Inc.
Palmer Mfg. & Supply Inc.
Pangborn Corp.
Patriot Foundry & Castings
Pattern Services LLC
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.
Piad Precision Casting Corp.
Pier Foundry & Pattern Shop
Pillar Induction
Pittsburgh Foundry & Machine
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 S A
ProfitGuard LLC
Progressive Foundry Inc.
Progress Rail, a Caterpillar Company
Proterial
Prototype Casting Inc.
PT Coupling Company
PushCorp Inc.
P W Gillibrand Co.

Q

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

R

RAMPF Group Inc.
Redford Carver
REFCOTEC Inc.
Refractory & Insulation Supply Inc.
Regen Aluminum
Reliability Concepts
Renaissance Manufacturing Group LLC
RENO Refractories Inc.
Resource Recovery Corp.
Rheocast Co.
Rice Industries Inc.
Richmond Foundry LLC
Rio Tinto Alcan
Rio Tinto Aluminum Group
Rio Tinto Iron & Titanium Inc.
River Metals Recycling LLC
Riverside Foundry Inc.
Roberts Sinto de Mexico
Rochester Metal Products Corp.
Rock Island Arsenal Joint Mfg. & Tech Cntr (RIA-JMTC)
Rolls Royce Marine North America
Rolls Royce North America Inc.
Roloff Manufacturing Corp.
Romac Industries Inc.
RoMan Manufacturing 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
 SELEE Advanced Ceramics
 SELEE Corporation
 Seneca Foundry Inc.
 Shellcast Foundries Inc.
 Sigma Engineered Solutions
 Silver Dollar Castings Inc.
 Simpson Technologies Corp.
 SinterCast Inc.
 SinterCast Ltd.
 Sintex Minerals & Services Inc.
Sinto America
 SIR Robotics Inc.
 SIR Spa
 Sloan Valve Co.
 Smart Sand Inc.
 Smith & Richardson Mfg. Inc.
 Solar Turbines Inc.
 Southeastern Foundry Products
 & Foundry Coatings Inc.
 Southland Metals Inc.
 Spectro Analytical Instruments
 Speedie Recycling
 SP Foundry
 Spring City Electrical Mfg. Co.
 Spuncast Inc.
 SRC Pipeflow Technology Center
 Stahl Specialty Co.
 Stainless Foundry & Engineering LLC
 Standard Alloys & Manufacturing
 Standard Manufacturers Services Limited
 Star Pipe Products
 States Engineering Corp.
 St Louis Precision Cast Products
St. Marys Foundry, Ltd.
 St Paul Foundry
 StrikoWestofen
Summit Foundry Systems Inc.
 SunCoke Energy Inc.
 Sun Metalon Inc.
 Superior Aluminum Alloys
 Superior Aluminum Castings Inc.
 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.
 Technetronix LLC
 Technical Metal Finishing
 Techni-Cast Corp.

TEMC Metal & Chemical Corp.
 Temperform Corp.
 Tennetek Inc.
 Texan Minerals and Chemicals LLC
 Textron Defense Systems
 Textron Inc.
 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 Co. Inc.
 The Raymond Corporation
 Thermotec Industries
 The Schaefer Group
 The Schaefer Group Inc.
 The Wasmer Company LLC
 TH Mfg. Co.
 Thomas Machine & Foundry Inc.
 Tinker Omega Sinto
 Titan Robotics Ltd.
 Tonkawa Foundry Inc.
 Tooling & Equip International
 Torrance Casting Inc.
 Toscelik Profil ve Sac Endustrisi AS
 Townley Foundry & Machine Co. Inc.
 TPI Arcade Inc.
 Transvalor Americas Corp.
 TRC
 Trebi North America Inc.
 Trebi Srl.
 Tromley Industrial Holdings Inc.
 Tyler Pipe Co.

U

United Brass Works Inc.
 Universal Electric Foundry Inc.
 Universal Welding & Engineering Inc.
 Urick Ductile Solutions
 Urschel Laboratories Inc.
 US Aluminum Castings
 U S Foundry & Mfg.Co.
 USI Insurance Services
 USMFG Inc.
 US Pipe & Foundry Co.

V

Valmet Inc.
 Van Hydraulics Inc.
 Vermont Castings
 Vermont Foundry Co.
 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
 Virginia Industries Inc.
 VJ Technologies Inc
 Voestalpine Railway Systems Nortrak
 Voss Pattern Co.
 Voxeljet AG
 Voxeljet America Inc.
 Voxeljet China Co. Ltd.
 Vulcan Engineering Co. In.c
 Vulcan Engineering Co. Inc.
 Vulcan Metals Corp.
 Vulcan Metals Corp. Ltd.

W

Wabash Castings Inc.
 Wabi Iron & Steel Corp.
 Wabtec
 Ward Aluminum Company
 Ward Heat Treating
 Ward Manufacturing LLC
 Washburn Iron Works Inc.
 Washington Mills Hennepin Inc.
 Waterous Company

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 Waupaca Foundry Inc.
 WDC Acquisition LLC
 Wear-Tek
 Weatherly Casting & Machine Co.
 Weaver Materiel Service Inc.
 Webb Wheel Products Inc.
 Weil McLain
 Western Foundries Inc.
 West Point Industries
 West Salisbury Fdry. & Machine Co.
 WGB Industries Inc.
 WGS Global Services LLC
 Wheelabrator Group
 Whibco Inc.
 Whiting Equipment Canada Inc.
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 Wirco Inc.
 Wirco - PIP
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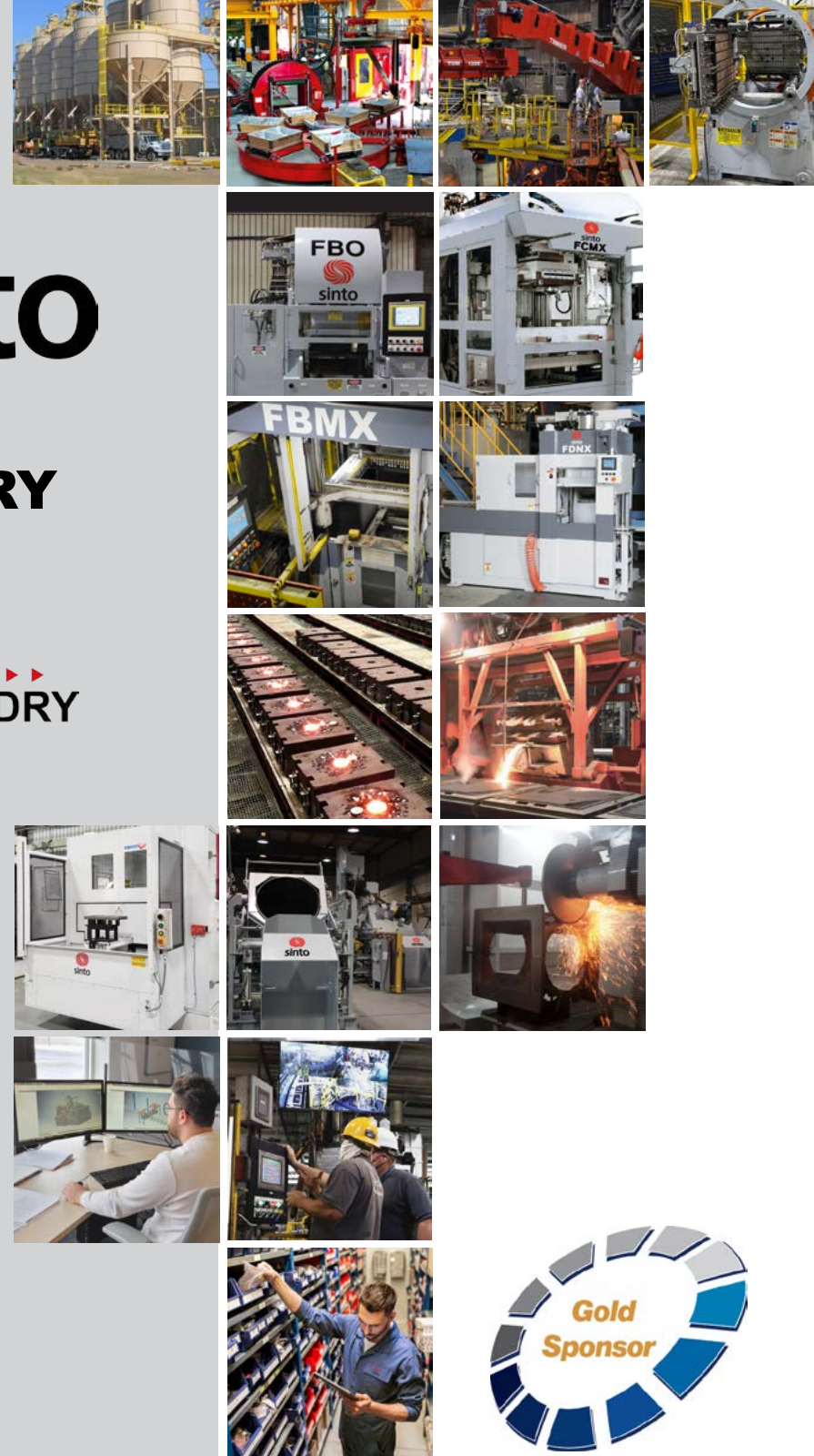


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2025 Casting of the Year



All Around Winner & Newcomer of the Year:

Monolithic Bypass

Mueller Co.
Chattanooga, TN

Material Used: Ductile Iron
Process: 3D Sand Printing
Weight: 24.2 lbs.
Dimensions: 10.5" x 10" x 7"
Application: Water works - reroutes flow around valve seal to relieve differential pressure.



Best Example of a Casting Conversion

Jeep Wrangler Exterior Door Handle

Cope & Drag Kustoms
Fort Atkinson, WI

Material Used: A356 Aluminum
Process: Green Sand
Weight: .5 oz
Dimensions: 8" x 2" x 1.5"
Application: After market automotive - replaces standard plastic handles.



Achievement in a Small Foundry Business

Stationary Seal, Air and Oil-Bearing Casting

Silver Dollar Castings
Chicago, IL

Material Used: Aluminum 355 T71
Process: Airset, Cope/Drag, 3D Cores
Weight: 24 lbs.
Dimensions: 24" x 7.5"
Application: Renewable energy - critical component, jet turbine engine, backup power.



Best Innovation/Prototype Cast Wheel for a 1911 Advance Steam Traction Engine

Dakota Foundry
Webster, SD

Material Used: Ductile Iron: 65-45-12

Process: Sand Casting

Weight: 1600 lbs.

Dimensions: 74" x 15"

Application: Preservation of history of American innovation and foundry practices - wheel for a tractor.



Outstanding Achievement I3 Shadow Exhaust

BRP

Spruce Pine, NC

Material Used: Aluminum

Process: Lost Foam

Weight: 44 lbs.

Dimensions: 26" x 17" x 10"

Application: Marine - water cooled exhaust manifold with integrated 90-degree gear box.



Outstanding Achievement Atlas Aft/Front/Main Housing

Aristo-Cast, Inc.

Almont, MI

Material Used: AZ91E Magnesium

Process: Investment Casting

Weight: 31g/9g/33g

Dimensions: 2.379 in x 1.800 in x 1.276 in/2.126 in x 0.615 in x 0.787 in/2.391 in x 1.915 in x 1.263 in

Application: Military/SWAT/National Guard - House electrical and optical components for laser aiming device.

Upcoming AFS Events and Courses

AFS Events

2025 Foundry Stormwater Compliance Seminar

May 13 - 14, 2025 | AFS Headquarters | Schaumburg, IL

Building on the fundamentals of the Clean Water Act, this seminar will address the rapidly changing world of stormwater compliance, including both the regulatory and technical issues involved in meeting the complex requirements. This seminar covers the many changes to the recently proposed 2026 EPA Multi-Sector General Permit (MSGP). Highlights include development of Stormwater Pollution Prevention Plans (SWPPPs), comparison of the currently effective 2021 and proposed 2026 EPA MSGPs with state specific permits, Best Management Practices (BMPs), tips/pitfalls, and the increasing regulatory scrutiny of PFAS and PFOA contamination.

2025 Government Affairs Fly-In

June 10 - 11, 2025 | The Hotel Washington
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.

2025 Chapter Officers Conference

July 22, 2025 | Live Online

AFS regional chapters are encouraged to register at least one representative for the AFS Chapter Officers Webinar as we start a new and exciting chapter meeting year. By collaborating and sharing, AFS chapters can continue to thrive and deliver tremendous value to our members. That starts with your chapter's participation on the Chapter Officers Webinar! We will discuss resources available through AFS and fundamental chapter operations. All participants will engage in a round table discussion to share best practices in event planning, communications, fundraising, and community engagement, so come prepared to "unmute" yourself.

Foundry Forward: HR Strategies for the Metalcasting Workforce Roundtable

August 12, 2025 | American Family Field | Milwaukee, WI

The AFS Talent Development Divisions offers a unique opportunity to learn directly from your industry peers

across both large and small foundries in the metalcasting sector. Whether you're managing a small family-owned business or part of a large corporate operation, you'll gain valuable insights into how HR professionals in the metalcasting industry are using innovative technology, tackling talent acquisition challenges, and driving employee engagement. Beyond the valuable sessions, you'll have the chance to connect with fellow professionals during a fun and relaxed networking evening at the ballpark. Enjoy the Milwaukee Brewers versus Pittsburgh Pirates and a delicious dinner buffet on the Johnsonville Party Deck with stadium seating with a view overlooking right-field plus parking passes all while sharing strategies and building relationships with those who understand the unique needs of the metalcasting workforce. Leave with actionable solutions and expanded connections that will help shape the future of HR in your organization.

2025 Sand Casting Conference

September 9 - 10, 2025 | Embassy Suites by
Hilton Downtown Pittsburgh | Pittsburgh, PA

Join us at the 2025 Sand Conference - where innovators and industry leaders converge! Dive into compelling case studies and dynamic discussions on cutting-edge molding technologies, environmental compliance, and process evaluation. Network with peers through process-focused presentations that spotlight real-world applications, showcasing advancements in process improvement and technology transfer. Don't miss this opportunity to explore and adopt new methodologies and state-of-the-art equipment poised to meet the industry's future demands.

2025 Copper Alloys Workshop

September 17 - 18, 2025 | AFS Headquarters
Schaumburg, IL

With several expert-led sessions, this 2-day workshop is tailored to new and experienced copper alloy metalcasters alike. Join us in expanding the shared knowledge of the copper alloy industry!

2025 Foundry Leadership Summit

September 22 - 24, 2025 | Nemacon | Farmington, PA

Register now for the premier metalcasting industry Leadership Summit. Enjoy networking with a friendly group of nearly 150 leaders from across the metalcasting supply chain and hear from world-class speakers discussing leadership, economic, workforce, technical and political issues that go to the heart of leading your business.

37th Environmental, Health & Safety Conference

October 7 – 9, 2025 | Green Lake, WI

The AFS Environmental, Health and Safety (EHS) Conference returns for its 37th year as the premier event for foundry industry EHS professionals. Taking place October 7 – 9, 2025, in Green Lake, WI, 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.

AFS Institute Courses

Copper Metalcasting 101

April 30 | Live Online

This course provides participants an introduction covering the characteristics and properties of copper, alloying elements and their general applications, and considerations for working with copper cast parts.

Gating and Riser Design 201

May 6 – 8 | Live Online

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

Casting Defect Analysis

May 13 – 15 | Live Online

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

Aluminum Melting 201

June 3 – 5 | Live Online

Aluminum Melting 201 introduces the principles and best practices of aluminum melting for metalcasting.

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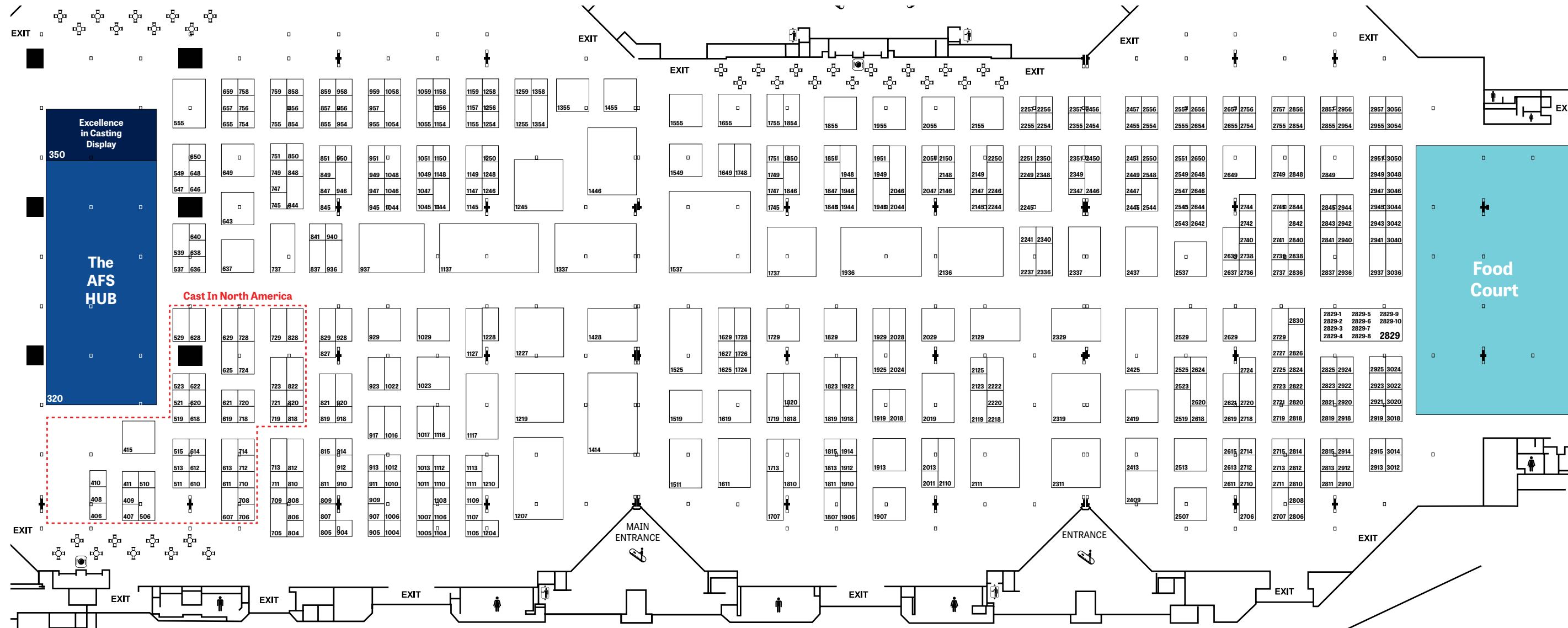
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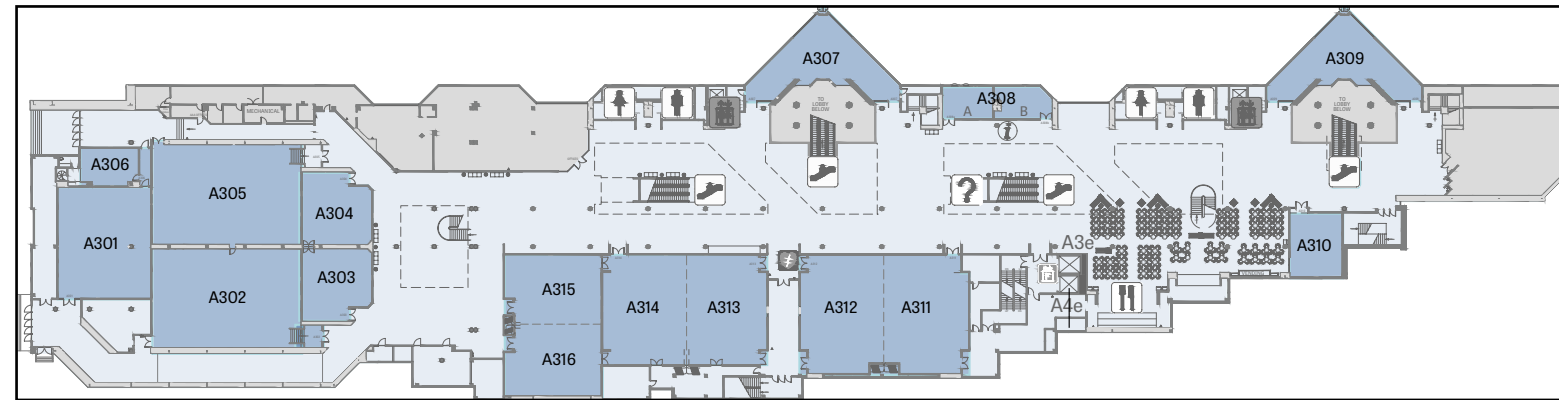
Table listing suppliers and their booth numbers, including 3D Systems, AW Bell Machinery, ABP Induction LLC, and others.

Table listing suppliers and their booth numbers, including Zibo Taa Metal, Technology Co. Ltd., Zibo Tongpu Vacuum, and others.

CastExpo 2025 Showfloor Map - Level One



Level Three

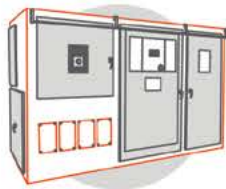




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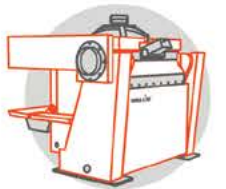
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