

## Seize the opportunities at Metalcasting Congress

Cleveland hosts industry showcase for first time since 1974

It's the biggest state in metalcasting, so it's only fitting that Ohio should host the biggest event in metalcasting.

Home to more foundries than anywhere in the U.S., Ohio is an ideal backdrop for Metalcasting Congress 2020, April 21-23 at the Huntington Convention Center of Cleveland.

### METALCASTING CONGRESS 2020

April 21-23, 2020  
Cleveland, Ohio

To register, visit  
[metalcastingcongress.org](http://metalcastingcongress.org)

It's the 14th time in Metalcasting Congress' 124-year history that Cleveland will play host, but the first since 1974.

"More than 2,000 attendees from foundries, suppliers, OEMs and university metalcasting programs are expected to attend this year's Congress," said Doug Kurkul, CEO of AFS.

As the industry's leading educational and networking event in North America, this year's theme, "Seize the opportunities," speaks to the extensive possibi-



Downtown Cleveland will host Metalcasting Congress 2020 in April. This year's theme is "Seize the opportunities."

ties on the horizon for the metalcasting industry. Attendees will have lots of opportunities at Metalcasting Congress, including the chance to take three courses from the AFS Institute – Metalcasting Process Basics, Employee Retention, and Identifying the Correct Casting Defect – which are included with Education Pass admission.

Experts from across the metalcasting

supply chain will be on hand to present the latest in cutting-edge technical and management papers and sessions. A busy show floor will highlight the best in industry suppliers, and leading North American foundries will showcase their capabilities to designers and buyers in the Cast in North America exhibit. Metalcasting Con-

Please see Congress on Page 4

## Peer into future with Foundry 4.0 workshop

You can ask voice-automated systems like Alexa to tell you the

weather, turn on the lights – and even crack a joke. But in the not-so-far future, this technology could direct the production of your casting or tell you when a worker is experiencing heat stress.

Technology is evolving at a rapid pace, fueling industry leaders to ask, "What will a foundry look like in 10 years?"

Foundry 4.0, June 9-10 in Itasca, Illi-

nois, is a two-day workshop focusing on how digital manufacturing affects all areas of the foundry process today, and what this means for the future.

Expert speakers will address data collection and management, data-driven decision-making, artificial intelligence,

Please see Foundry 4.0 on Page 8



Join our private social network for all AFS individual members,  
Casting Connection



Follow us on Instagram at  
[americanfoundrysociety](https://www.instagram.com/americanfoundrysociety)



Like us on Facebook at  
American Foundry Society



Join the discussion at  
Foundry and Diecaster Network



Follow us on Twitter  
[@AmerFoundrySoc](https://twitter.com/AmerFoundrySoc)

# Making the most of uncertain times

A longtime business curmudgeon used to half-jokingly say that he could plan for prosperity and he could navigate a recession, but it was slow-growth economic times that presented the most difficult business decisions. That business leader is now happily retired, but the new year seems to illustrate his point.

Today, the United States has something of two economies. The consumer economy is relatively strong, with unemployment at 50-year lows, wages showing signs of rising, and consumer confidence at healthy levels. Conversely, the manufacturing economy has been stagnant, with the Institute for Supply Management Manufacturing Index having declined five straight months. Manufacturing jobs, which increased by an average of 22,000 per month in 2018, actually dropped by 12,000 in December 2019. Many foundries that were operating at near full capacity in 2018 saw a slowdown in the latter part of 2019.

Another gauge of the health of the manufacturing economy is the transportation sector. In 2019, nearly 800 trucking companies failed, according to Broughton Capital, 2.5 times the number the previous year. Moreover, the major U.S. railways have large numbers of engines and rolling stock idled.

Most economists project moderate economic growth, at levels between 1.8% and 2.3%, in 2020. Happily, The Conference Board foresees increasing capital investment in the second half of the year, and most economists do not foresee a recession on the immediate horizon.

Complicating matters are several sources of uncertainty. One is the upcoming presidential and congressional

elections. Depending on the outcome, the public-policy climate could look very similar or very different compared to the current situation.

Another source of uncertainty concerns the internal combustion engine. In a column titled, "Twenty Ideas that Will Shape the 2020s" in the January issue of *Fortune*, a former United Nations climate-change administrator predicts the beginning of the end of the internal combustion engine. Indeed, several automakers will be introducing large numbers of electric vehicle models in the next few years.

In most parts of the world, this change is less a market-driven transition than a politically led transformation based on climate concerns. Interestingly, electric vehicle sales in China were robust – until government subsidies were scaled back, after which demand declined.

Metalcasting leaders in North America nonetheless need to be refining their business plans to reflect the impact this eventual shift will have on their foundry. Paul Eichenberg, an expert on this topic, will deliver a Keynote Address at the Metalcasting Congress in Cleveland on April 23. I encourage you to stay for the third day of the Congress to hear Paul's message.

In this slow growth, uncertain climate, many foundry leaders that we speak with advocate getting back to

basics. With interest rates low, many are continuing to judiciously invest in their plant and equipment. Investments in automation can improve efficiency and reduce the need to staff difficult-to-fill positions. Investments in Internet-of-Things connectivity can make the foundry more productive, a theme that will be explored at the first-ever AFS Foundry Industry 4.0 Workshop, June 9-10 in Itasca, Illinois.

Numerous industry leaders are also investing in training because they understand that producing quality castings at a reasonable price requires a responsive, skilled team. Excellent training programs are available through the AFS Institute and other training providers.

Finally, many savvy foundry leaders are seeking new customers. AFS offers several resources to help foundries generate more business. First, by virtue of being a Corporate Member, a foundry is listed in the online and printed *CASTING SOURCE DIRECTORY*. The print version is mailed to nearly 12,000 casting buyers and designers each year. Second, there will be a Buyers & Designers track at Metalcasting Congress in April, and some foundries are exhibiting in the "Cast in North America" part of the show in order to interact with those attendees. Third, the newly launched *CASTING SOURCE* magazine and website – as well as AFS Foundry Video Central – offer terrific ways to deliver a foundry's marketing message to potential new customers.

All of us at AFS wish you and your team a prosperous year in 2020. We look forward to seeing you at industry events.

In this slow growth, uncertain climate, many foundry leaders that we speak with advocate getting back to basics.





# Charlie Cook to give political insight to metalcasters

It's an extremely busy year heading into the 2020 elections, but a familiar face will help navigate the noise. Veteran political analyst Charlie Cook is the keynote speaker of the AFS Government Affairs Fly-In this spring, offering a road map to the 2020 elections and insight for metalcasters who want to make their foundry's priorities heard.



Charlie Cook

Cook works for the National Journal Group, NBC, and oversees his own non-partisan, online publication, the *Cook Political Report*. He launched the newsletter in 1984 – the same year former President Reagan was re-elected. Since then, Cook has been featured on various television networks to provide election night commentary.

Cook recently teamed up with the Kaiser Family Foundation to examine attitudes and experiences of voters in several key battleground states for the 2020 presidential election. The economy was identified as a key issue among interviewees, which is also vital to success in the U.S. metalcasting industry.

AFS calls all metalcasters to Capitol



Metalcasters will gather on Capitol Hill to speak with lawmakers and stand together for the industry at the AFS Government Affairs Fly-In in May.

Hill May 19-20 to stand for the industry. The Fly-In, hosted at the Hyatt Regency Washington, will connect metalcasters with their lawmakers and give them the tools to make their voices heard, including access to new data on the economic impact of the metalcasting industry.

Resources to advocate for foundries will be there, and we hope you are too.

Registration for the 2020 AFS Government Affairs Fly-In is available at [www.afsinc.org/conferences](http://www.afsinc.org/conferences).

## AFS GOVERNMENT AFFAIRS FLY-IN

May 19-20

Washington, D.C.

To register, visit [www.afsinc.org/conferences](http://www.afsinc.org/conferences)

## AFS 2020 Government Policy Priorities

AFS works full-time to advocate for public policies that strengthen the foundry industry. Below are the top policy areas where AFS will focus its advocacy efforts this year:

- **Infrastructure** – Metalcasters play a critical role in our nation's infrastructure network. Congress should look to long-term solutions and enact various reforms to provide for increased, long-term funding for improvements to the nation's transportation, water, energy and other critical infrastructure.
- **Trade** – AFS supports vigorous enforcement of U.S. trade laws. Press China and other nations to end government subsidies and other market-distorting practices, which result in an uneven playing field for U.S. metalcasters.
- **Safety** – AFS members share the critical goal of ensuring the safety and health of their employees as top priorities in the workplace. For 2020, AFS will submit comments on several OSHA proposals, including the Mechanical Power Press Rule (which hasn't been revised in 40 years), Blood Lead Level for Medical Removal and post-incident drug testing and safety

incentive programs.

- **Tax** – AFS supports tax policy that encourages manufacturing activity in the United States and promotes domestic capital investment. AFS will advocate for permanence of key pieces of the Tax Cuts and Jobs Act.
- **Energy and Environment** – Metalcasting is inherently energy-intensive. The availability and reliability of U.S. energy sources is essential to the industry's competitiveness. Metalcasters are committed to energy efficiency to lower costs and lessen environmental impact. Metalcasters continue to make environmental improvements to reduce pollution and increase sustainability. Congress and the administration should enact policy measures to facilitate investment in our national energy infrastructure, including production, distribution, transmission and storage projects.

# Metalcasting Congress 2020 Keynote Speakers

## Greg Miskinis

Director of Research and Process Development, Waupaca Foundry  
*Hoyt Lecture: Transformation of the Modern Foundry, 10:30 a.m. April 22*

The foundry industry has been in a state of transformation for over 2,600 years. From shapes carved into stone, to topologically optimized and additive manufacture-facilitated creations, the evolution of metalcasting is easily witnessed. Whether this change has come about by man, method, material or market is debatable. With the gradual shift from internal combustion engine personal vehicles to semi or fully-autonomous electric vehicles, competing in these shrinking markets will likely require agile and novel foundry solutions. This year's Hoyt Lecture will examine how foundries have been transformed primarily by shifts in the workforce, market pressures brought by global flattening (competition), environmental, health and safety, and even by disaster.



Greg Miskinis

## Paul Eichenberg

Chief Strategist, Paul Eichenberg Strategic Consulting  
*The Automotive Supply Chain: An Era of Innovation and Disruption, 10:30 a.m. April 23*

As electric cars and autonomous vehicles gain prevalence, what strategies and options are available to the supply base to deal with this looming disruption? Paul Eichenberg will provide insight into these changes and explain how top automotive suppliers are deploying strategies such as divesting, transforming, diversifying, and consolidating to scale up opportunities in the face of global competition. Eichenberg has 25 years of experience working with Fortune 500 automotive suppliers, including eight years as Global VP of Corporate Development and Strategy for Magna Powertrain and Magna Electronics. Eichenberg oversaw all strategic planning, product management, as well as M&A activities at Magna, and successfully repositioned the business to focus on technologies for the



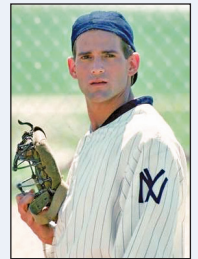
Paul Eichenberg

optimization of the internal combustion engine, EV/hybrid technologies, and autonomous vehicles. Eichenberg will field questions from the audience.

## Dwier Brown

*"Field of Dreams" actor and author Fathers, Fate and Field of Dreams, 10:30 a.m. April 21*

Dwier Brown played Kevin Costner's father for five minutes at the end of the baseball movie "Field of Dreams." Despite being an actor for 35 years and appearing in films, TV and stage productions, it was those five minutes that changed his life. Since the movie's release, people have shared with Brown poignant stories of how seeing the movie changed their lives. He captured some of those stories in the funny and moving memoir, "Build It and They Will Come: Fathers, Fate and Field of Dreams." Film critic Michael Phillips calls Brown "an engaging, truthful speaker who can take an audience to unexpected places."



Dwier Brown

## Resources for buyers, designers

AFS is offering a compelling educational program for casting designers, buyers and specifiers at Metalcasting Congress 2020. The Designers & Buyers Track is a slate of highly targeted programming for engineers, procurement specialists, quality control personnel, and anyone who designs or purchases metal castings for their OEMs or related businesses.

Industry experts will provide insights and tips on the latest technology, sourcing strategies, and other advancements they can use to improve their products and their bottom lines. Designers & Buyers Track sessions are included with exhibit admission.

Sessions will be held in The Hub, on the show floor, providing easy access to the Cast in North America section of Metalcasting Congress 2020, which features exhibits from many of North America's leading metalcasters. For information on exhibiting in CINA, visit [www.afsinc.org/tradeshows/1189/metal-caster-booth-sales](http://www.afsinc.org/tradeshows/1189/metal-caster-booth-sales).

Industry experts will provide insights and tips on the latest technology, sourcing strategies, and other advancements they can use to improve their products and their bottom lines. Designers & Buyers Track sessions are included with exhibit admission.

## Metalcasting Congress 2020 Sessions

- 3 Keynotes
- 3 AFS Institute courses
- 69 Technical sessions
- 6 Management sessions
- 1 Joint management/technical
- 5 Designers & Buyers sessions

### CONGRESS continued from Page 1

gress also includes professional networking opportunities, keynote speeches and awards for industry leaders.

Registration for Metalcasting Congress 2020 is available online at [www.metalcastingcongress.org/register](http://www.metalcastingcongress.org/register) or onsite at the Huntington Convention Center of Cleveland.

Find more information about programming, hotels and travel, schedules, exhibits and more at [www.metalcastingcongress.org](http://www.metalcastingcongress.org).

### Who Should Attend Metalcasting Congress?

- Foundry owners and CEOs
- Engineers, plant managers, HR managers, sales managers, trainers and management trainees
- Supplier technical specialists and sales managers
- Parts buyers, designers and specifiers
- Students
- Spouses and guests of attendees — A Spouses and Guests Tour is available

# Send *Casting Source* to customers, leads

**M**etalcasters have a new resource to share with their customers and prospects. *Casting Source* is a magazine for casting end-users, and metalcasters can send it to their clients at no cost.

*Casting Source*, which debuted in November 2019, was previously published by AFS as *Metal Casting Design & Purchasing*. The magazine features a new design, new columns and articles, and more content from contributing au-



## Show casting buyers what you can do in *Metalcaster Prospectus*

Customers and prospects might know your name, but do they really know what you have to offer?

The best way to share your foundry's whole story – your capabilities, your expertise, your history, and your people –

is in *Metalcaster Prospectus*. Distributed with *Casting Source* magazine, online, and at trade shows including Metalcasting Congress, the *Prospectus* is where buyers turn when sourcing their castings.

To secure your profile and/or ad space, or for more information, contact David Kathe at 800-537-4237 or [dkathe@afsinc.org](mailto:dkathe@afsinc.org). The deadline to reserve space is March 6.

thors who work in the industry. Casting capabilities, conversions, research and development and supply chain management are among the topics covered in

*Casting Source*.

To send a free subscription, or to subscribe yourself, visit [castingsource.com/subscribe](http://castingsource.com/subscribe).

## AFS releases

### Forecast & Trends

Reshoring, hiring, and electric vehicles are part of the focus of the newest edition of the *AFS Forecast & Trends*, published in January by AFS.

The yearly *Forecast & Trends* provides

vital production data to metalcasters, and also explores topics that will shape their businesses in the future. This year's edition takes an in-depth look at how the growth of the electric vehicle market will affect foundries. The *Forecast* also includes:

- The results of the 2019 Foundry Survey, including a separation of results by two metal groups
- "Hiring is Still a Challenge for Metal-

casters"

- "Metalcasters Should Be Reshoring in 2020"
- Essential *AFS Forecast & Trends* production data by metal
- The 2020 government affairs agenda Valued at \$1,000, Corporate Members receive the *Forecast* as a benefit. Individual members receive a discount. To purchase the *Forecast*, visit [hub.afsinc.org](http://hub.afsinc.org).

## International Journal of Metalcasting publishes 50th issue

**T**he *International Journal of Metalcasting*, the American Foundry Society's technical and research publication, released its 50th issue in January.

*IJMC* is a peer-reviewed quarterly journal that publishes the latest advancements in metalcasting research and technology. It is the official research journal of the World Foundry Organization. With an international audience of scientific and technical leaders in metalcasting, *IJMC* leads the way in the transfer of research and technology for the global foundry industry.

"This issue continues to showcase the outstanding research and technical advancements in a cited journal by one of the most highly regarded publishers, Springer-Nature," said editor-in-chief

Thomas Prucha. "This 50th issue also recognizes the hard work of our community of volunteer reviewers and also the AFS professional staff to maintain the highest quality."

Every AFS Corporate Member receives a subscription to the *IJMC* as a Corporate Member benefit. Individual members can purchase a subscription through AFS. For individual member subscriptions, or to update or renew Corporate Member subscriptions to *IJMC*, email [cusserv@afsinc.org](mailto:cusserv@afsinc.org). Non-members can subscribe at [springer.com/journal/40962](http://springer.com/journal/40962). See the contents of the latest issue at [rd.springer.com/journal/40962/14/1](http://rd.springer.com/journal/40962/14/1).

*IJMC* is published by AFS in partnership with Springer Nature Publications.

## Read the AFS Annual Report

**2**019 was a memorable year for AFS. We had new projects, policy victories, innovative research, Corporate Membership growth, an exciting CastExpo in Atlanta, and so much more. You can read all about it in the 2019 AFS Annual Report, where you'll find information and data on initiatives:

- Member Success and Sustainability
- Industry Stewardship
- Policy Advocacy
- Promotion of Castings
- Workforce Development
- Technical Innovation
- 2019 AFS Financials and Facts

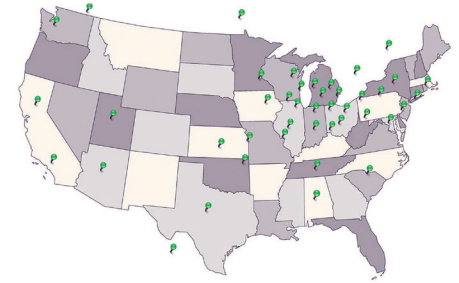
To view this and recent reports from AFS, visit [afsinc.org/annual-reports](http://afsinc.org/annual-reports).



# AFS Chapter Directory and Updates

AFS provides the means for you to network with metalcasters in your area. Reach out to a chapter leader to get involved today, or visit [www.AFSinc.org/get-involved](http://www.AFSinc.org/get-involved).

**Include your chapter news in the AFS Chapter Directory!** Please send chapter updates, events, meeting schedules and other news to Katelyn Stanek, AFS Marketing & Communications Specialist, at [kstanek@afsinc.org](mailto:kstanek@afsinc.org).



## UNITED STATES

### Alabama

#### Birmingham District

[jjohnson@ajaxtocco.com](mailto:jjohnson@ajaxtocco.com)  
Jody Johnson

The Birmingham Chapter co-presented an Open Foundry Day at University of Alabama at Birmingham on Nov. 9 and a chapter meeting on Nov. 11. The chapter's Holiday Spouse Night was Dec. 5. They will hold a technical session and dinner meeting in Meridian, Mississippi, on Feb. 20. To register, visit [afsbirmingham.com](http://afsbirmingham.com).

### California

#### Northern California

[detria.mixon@abifoundry.com](mailto:detria.mixon@abifoundry.com)  
Detria Mixon

#### Southern California

[jason@smccast.com](mailto:jason@smccast.com)  
Jason Gutierrez

The Southern California Chapter's 2020 Vendors Night will be March 5 at Rio Hondo Golf Club & Event Center, Downey, California. To register, visit <https://californiametalscoalition.formstack.com/forms/vendorsnight>.

### Connecticut

#### New England

[admin@newenglandafs.com](mailto:admin@newenglandafs.com)  
Drew Weaver

The New England Chapter held its holiday party in the box seats at a Providence Bruins game in Rhode Island on Nov. 22. All profits from the event were put toward establishing a scholarship endowment for foundry students in the New England region.

### Georgia

#### Piedmont

[shawn.mckinney@saint-gobain.com](mailto:shawn.mckinney@saint-gobain.com)  
Shawn McKinney

The Piedmont Chapter held a meeting on foundry maintenance Nov. 20 in Conway, South Carolina. The meeting included a tour of Conbraco Industries. On Jan. 22-23, the chapter held a charge materials meeting in Columbus, Georgia, which featured a tour of Wheelabrator. On March 11-13, the chapter will co-host the AFS Southeast Regional in Chattanooga.

### Illinois

#### Central Illinois

[stecklein\\_catherine@cat.com](mailto:stecklein_catherine@cat.com)  
Catherine Stecklein

#### Chicago

[nmerens@lilliangroupmarketing.com](mailto:nmerens@lilliangroupmarketing.com)

#### Norwin Merens

The Chicago Chapter held a dinner meeting on Nov. 20 in Schaumburg, Illinois. The speaker, Joey Leonard of The H.S. Group, discussed employee recruitment and retention.

#### Stataline

[sean@silfcastings.com](mailto:sean@silfcastings.com)  
Sean McGough

The Stataline Chapter hosted a meeting at the Butterfly Supper Club in Beloit, Wisconsin, on Nov. 12. The topic was "Robotics 101" and the speaker was Steve Apel of Acieta. The chapter also held meetings on Dec. 10 and Jan. 14. They will co-host the 2020 Wisconsin Regional Feb. 12-14 at Potawatomi Hotel & Casino in Milwaukee.

### Indiana

#### Central Indiana

[michelle.ring@mineralstech.com](mailto:michelle.ring@mineralstech.com)  
Michelle Ring

On Nov. 19, the Central Indiana Chapter held a meeting and dinner in Indianapolis. The topic was technologies in sand temperature control. David Schmidt of Finite Solutions Inc. was the speaker at the Jan. 8 meeting. Their next meeting is Feb. 11 in at the Blind Owl Brewery in Indianapolis, where Michael Fanz-Huster from Inductotherm will speak.

#### Northern Indiana

[mking@ferroglobe.com](mailto:mking@ferroglobe.com)  
Marc King

The Northern Indiana Chapter held a meeting on Nov. 18. The speaker was author John Laurence Busch, who presented "Foundry Presentation: Building the First 'Steamship' in History." At their Jan. 13 meeting, the chapter hosted a foundry technical panel presentation. On Feb. 15, the chapter will hold a Valentine's Day event with a dinner and comedy night at the Wagon Wheel Theatre in Warsaw, Indiana. RSVP to [rsvp@afsnin.org](mailto:rsvp@afsnin.org).

### Iowa

#### Hawkeye

[alex@senecafoundry.com](mailto:alex@senecafoundry.com)  
Alex Brown

The Hawkeye Chapter held a meeting Nov. 12 in Waterloo, Iowa. The presenter was Doug Bender of Bender Foundry Service. On Jan. 21, AFS Director David Gilson of SinterCast was the featured speaker.

### Kansas

#### Plains States

[ron@kansascastings.com](mailto:ron@kansascastings.com)  
Ronald Pomeroy

### Michigan

#### Central Michigan

[charlesprater@calhounfoundry.com](mailto:charlesprater@calhounfoundry.com)

Charles Prater

The Central Michigan Chapter held a meeting with a speaker from OmniSource Jan. 16.

#### Detroit Windsor

[sfyins@icloud.com](mailto:sfyins@icloud.com)  
Shiaofong Yin

The Detroit Windsor Chapter welcomed Dr. Qigui Wang of General Motors to present on the topic of the Integrated Computational Materials Engineering during its Jan. 23 chapter dinner.

#### Saginaw Valley

[jonathan.giove@gm.com](mailto:jonathan.giove@gm.com)  
Jonathan Giove

#### Western Michigan

[joelwyates@gmail.com](mailto:joelwyates@gmail.com)  
Joel Yates

State Sen. Jon Bumstead spoke at the Western Michigan Chapter's meeting on Nov. 12. On Nov. 22, the chapter took part in Family Fun Night: Foundries at Lakeshore Museum Center in Muskegon, Michigan. AFS CEO Doug Kurkul spoke at the meeting on Dec. 10. Top Management Night was Jan. 14. The chapter will hold a meeting on the topic "Nitriding and the Heat Treatment of Firearms" on Feb. 11 in Norton Shores, Michigan.

### Minnesota

#### Twin Cities

[travis.bodick@carleyfoundry.com](mailto:travis.bodick@carleyfoundry.com)  
Travis Bodick

On Nov. 12, the Twin Cities Chapter welcomed State Sen. Michelle Benson for her address, "The State of the Industry: Metalcasting in Minnesota." The chapter also honored FEF and UW-Stout scholarship recipients. Matt Hartman of ASK Chemicals spoke at the Jan. 14 meeting in Plymouth, Minnesota. The chapter's next meeting is Feb. 11 in Minneapolis. To RSVP, visit [afstwincities.org](http://afstwincities.org). The chapter will hold a Casting Defect Analysis Half-Day Seminar on March 10 in Plymouth, Minnesota.

### Missouri

#### Mo Kan

[vbrock@canfieldjoseph.com](mailto:vbrock@canfieldjoseph.com)  
Vicki Brock

The Mo-Kan Chapter welcomed Mitch Patterson of HA International as the speaker at their Jan. 16 meeting in Kansas City, Missouri.

#### St. Louis

[imrie@southerncast.com](mailto:imrie@southerncast.com)  
Douglas Imrie

The St. Louis Chapter will hold a dinner and tour of Alpha Foundry on March 5.

# AFS welcomes new Mid-Atlantic Chapter

Chapter covers PA, MD, DE, NJ, VA, DC and WV

The AFS Keystone and Chesapeake chapters were no strangers to one another. So when they decided to combine their strengths to become AFS' newest regional chapter, the Mid-Atlantic, it was an easy transition. After all, the two groups had been working together for years.

"Even though we were in different chapters, even before the merger, we still went to each other's events," said Dustin Finefrock, chairman of the Mid-Atlantic Chapter. "... When we finally joined boards, it's not like we were all unfamiliar. We kind of had some common ground to go off of."

The Mid-Atlantic Chapter serves Pennsylvania, Maryland, Delaware, New Jersey, Virginia, Washington, D.C.

and West Virginia.

Peaking at nearly 300 members, the group's members range in age from young professionals to metalcasters with decades of experience. Mid-Atlantic Chapter Secretary Katie Childs says this allows them to drive the future of metalcasting.

"I think it's great, because we were able to tap into some people that

Please see MID-ATLANTIC on Page 11

## **New York**

### **Central New York**

Brad Wiler  
brad.wiler@itt.com

The Central New York Chapter typically meets on the second Wednesday of the month from September to June. Contact Brad Wiler (brad.wiler@itt.com) to confirm event details.

## **Ohio**

### **Central Ohio**

eric@keenersand.com  
Eric Weiffenbach

The Central Ohio Chapter's Scholarship Night was Jan. 16 in Hilliard, Ohio. The chapter's "Let's Make a Deal" Winter Party will be Feb. 15 at Makoy Center in Hilliard.

### **Cleveland-Akron Canton**

jazalar@bwxt.com

Tony Zalar  
The CAC Chapter held meetings on Nov. 14, Dec. 12 and Jan. 9 in Wadsworth, Ohio. The November speaker was Deborah Soloman of Merrill Lynch Wealth Management. The next meeting is Feb. 13 in Wadsworth. To register, visit [www.cacohioafs.org](http://www.cacohioafs.org).

### **Southwestern Ohio**

dwelsh@hillandgriffith.com  
Dale Welsh

### **Todolo**

pcarlin@saalloys.com  
Patrick Carlin

## **Oklahoma**

### **Tri-State**

rhall@spfoundry.com  
Robert Hall

## **Pennsylvania**

### **Mid-Atlantic Chapter**

dusty@boosealum.com  
Dustin Finefrock

The new Mid-Atlantic Chapter recently launched following the merger of the Keystone and Chesapeake Chapters. The chapter's Shrimp, Bull & Oyster Feast is set for Feb. 15 at Columbus Gardens in Baltimore. Email Tracy Siegle for tickets at [tsiegle@penncastings.com](mailto:tsiegle@penncastings.com).

### **Northwestern Pennsylvania**

greg@onexnet.com

Greg Trohoske

The NWPS's monthly dinner meetings are held the third Tuesday of the month. John Carano, AFS Business Development Manager, was the presenter at the NWPA Chapter's meeting on Nov. 19. The chapter held a holiday gathering on Dec. 17 in Erie. On Jan. 21, the chapter welcomed presenter Robert Keshecki of Inductotherm.

### **Pittsburgh**

techmgr@duraloy.com

Roman Pankiw

Members of the Pittsburgh Chapter gave Foundry-in-a-Box demonstrations at Norwin High School on Nov. 12. The chapter's 2020 planning meeting was Jan. 6 in Irwin, Pennsylvania. They will co-host a combined meeting with the Association for Iron & Steel Technology on Feb. 10 at the OMNI William Penn Hotel in Pittsburgh. Email Henry Kemp at [hkemp@duraloy.com](mailto:hkemp@duraloy.com) to make your reservation.

## **Tennessee**

### **Tennessee**

afstnboard@gmail.com

Scott Lakey

The Tennessee Chapter hosted a technical dinner meeting on Nov. 4 in Chattanooga. The program was "Engaging with the Next Generation of Foundry Persons" with presenter Alyssa Howe. The chapter held a trivia night on Dec. 2, and a technical dinner meeting on Jan. 6. On Feb. 11, the chapter will host a meeting at Tennessee Technological University, which includes presentations of senior projects and a tour of the student labs and foundry. On March 11-13, they will co-host the 87th Southeast Regional at the Read House Hotel in Chattanooga. For more information, visit [afs-tn.org](http://afs-tn.org).

## **Texas**

### **Texas**

mloerwald@martinsprocket.com

Matthew Loerwald

The Texas Chapter will hold a board meeting and general meeting Feb. 7 at Sam Houston Race Park in Houston. The speaker will be Brent Mulliniks of HydroTech Solution. To register, visit [afstexas.org](http://afstexas.org).

## **Utah**

### **Utah**

reed@lfsincorporation.com

Reed Larson

## **Washington**

### **Washington**

cmckeever@uniwest.us

Chuck McKeever

## **Wisconsin**

### **Northeastern Wisconsin**

jmartin@aarrowcast.com

John Martin

The chapter will co-host the 2020 Wisconsin Regional Feb. 12-14 at Potawatomi Hotel & Casino in Milwaukee.

### **Wisconsin**

m.kamin@carpenterbrothersinc.com

Michael Kamin

The Wisconsin Chapter's 2019 Christmas party was Dec. 6 at Potawatomi Hotel & Casino in Milwaukee. At their Jan. 16 meeting in Waukesha, Wisconsin, Steve Apel of Acieta was the featured speaker. The chapter will co-host the 2020 Wisconsin Regional Feb. 12-14 at Potawatomi Hotel & Casino in Milwaukee.

## **MEXICO**

### **North Mexico**

jose.lope@sinto.mx

José Lobo

## **CANADA**

### **British Columbia**

cchamberlain@oclim.com

Craig Chamberlain

### **Eastern Canada**

mrejean@hotmail.ca

Rejean Mailhot

The Eastern Canada Chapter co-presented the 4th Smart Metallurgy Symposium on Oct. 31-Nov. 1 in Trois-Rivières, Quebec.

### **Manitoba**

jbrooks@karrich.com

Jason Brooks

## **Ontario**

neals.mccain@gmail.com

Neal McCain

# Get practical environmental guidance for your foundry

**B**ig or small, foundries face unique environmental situations on a daily basis. Metalcasters who handle environmental responsibilities have a lot to keep up with – from laws affecting foundries to waste management and recordkeeping.

## ENVIRONMENTAL 101

March 4-5  
Schaumburg, IL

To register, visit [www.afsinc.org/conferences](http://www.afsinc.org/conferences)

An upcoming AFS seminar, Environmental 101, will bring together industry veterans and environmental experts to discuss common hurdles that metalcasters encounter. They will provide workable solutions for



various topics, including:

- Waste management
- Air quality
- Pollution control
- Permits
- Stormwater
- Common compliance issues
- Regulatory inspections – do's and

don't's

Regardless of the challenge, there's a team ready to work with you. AFS is hosting Environmental 101 March 4-5 in Schaumburg, IL.

A full agenda and registration details can be found at [www.afsinc.org/conferences](http://www.afsinc.org/conferences).

## Attending the Environmental 101 Seminar? Stick around for EHS Committee meetings on March 5!

- 9 a.m.-noon: Water, Waste, & Byproducts Management Committee
- 9 a.m.-3 p.m.: Safety & Health Committee
- 11 a.m.-3 p.m.: Air Quality Committee

Ongoing committee participation requires an AFS membership, but all are encouraged to participate as visitors.

Questions? Email AFS Senior EHS Technical Director Juliette Garesché at [jgaresche@afsinc.org](mailto:jgaresche@afsinc.org).

## FOUNDRY 4.0 continued from Page 1

augmented reality, virtual reality, wearable technology, robotics, automation and cyber security.

Experts will also tackle related issues of workforce development, recruiting, and training. The seminar will feature foundry case studies on the impact of digital technology, such as 3D scanning

an entire foundry facility, and using augmented reality for equipment maintenance and training.

Speakers will look even further to the year 2050, where metalcasters could possibly melt and pour in zero-gravity atmospheres.

Foundry 4.0 is June 9-10 at the Eaglewood Resort in Itasca, Illinois, near

## FOUNDRY 4.0

June 9-10  
Itasca, IL

To register, visit [afsinc.org/conferences](http://afsinc.org/conferences)

O'Hare International Airport. Registration details are available at [www.afsinc.org/conferences](http://www.afsinc.org/conferences).

## AFS INSTITUTE

# Institute holding courses across U.S.

Foundry classes coming to PA, IA, NC, AL and MI

**M**etalcasters across the U.S. have a great opportunity to get the best in workforce training close to home when the AFS Institute goes on the road.

Some of the Institute's most popular courses will soon be offered in Pennsylvania, Iowa, North Carolina, Alabama and Michigan. These road classes come in ad-

dition to the Institute's regular classroom courses at AFS HQ in suburban Chicago.

Upcoming Institute road courses include:

- Gating and Riser Design 101, Feb. 5-6, Lancaster, Pennsylvania
- Improving the Effectiveness of Visual Inspection, Feb. 12-13, Charlotte, North Carolina
- Iron Melting 201, Feb. 26-27, Birmingham, Alabama

- Improving the Effectiveness of Visual Inspection, March 4-5, Detroit, Michigan
- Casting Design, March 11-12, Charlotte, North Carolina
- Green Sand Molding 201, March 18-19, Detroit, Michigan
- Introduction to Metalcasting, April 8-9, Detroit, Michigan
- Gating & Riser Design 201, May 5-6, Lancaster, Pennsylvania
- Improving the Effectiveness of Visual Inspection, June 3-4, Waterloo, Iowa

For more information and to register for any of the above, visit [afsinc.org/courses](http://afsinc.org/courses).



# 2019-2020

## AFS Officers & Board Members



President  
**Peter C. Reich**  
Co-Owner,  
LAEMPE REICH



Vice President  
**Michael L. Lenahan**  
CEO,  
KB Foundry Services



2nd Vice President  
**Jim Frost**  
Director Quality  
Systems & Compliance,  
AMERICAN Cast  
Iron Pipe Company



Immediate Past  
President  
**Jean Bye**  
President and CEO,  
Dotson Iron Castings



CEO  
**Doug Kurkul**  
CEO,  
American Foundry Society

## Directors Class 2016 - 2020



**Greg Loving**  
Senior Vice President  
& General Manager,  
Rochester Metal  
Products Corporation



**Jason McGowan**  
President,  
D&L Foundry, Inc.



**Russell Rosmait**  
University Professor,  
Pittsburg State  
University



**Scott Strobl**  
Executive  
Vice President,  
Simpson Technologies  
Corp.

## Directors Class 2017 - 2021



**Michael J. Leib**  
Former CEO,  
Weatherly Casting  
and Machine  
Company/Hazelton  
Casting Company



**Brad Muller**  
Vice President of  
Marketing,  
Charlotte Pipe &  
Foundry

## Directors Class 2018 - 2022



**Patrick Carlin**  
Sales Manager,  
Superior Aluminum  
Alloys



**David Gilson**  
Sales and Marketing  
Director,  
SinterCast



**Sara Joyce**  
Vice President of  
Quality and Technical  
Assurance,  
Badger Mining  
Corporation



**Jeet Radia**  
Senior Vice President,  
McWane, Inc.

## Directors Class 2019 - 2023



**Patrick T. Ameen**  
Vice President  
Industry Relations,  
Amsted Rail  
Company



**John P. Haas**  
President,  
Cadillac Casting, Inc.



**John Lancaster**  
Plant Director,  
General Motors



**Angela Dine  
Schmeisser**  
President and CEO,  
St. Marys Foundry,  
Inc.

# Recruit employees with 'Careers in Metalcasting'

Is your plant struggling to find enough qualified workers to fill vacancies? You're not alone. Employee recruitment consistently ranks near the top of the list of concerns for foundry managers and owners.

To help the industry reach potential metalcasters who are making career choices, AFS produced a video sharing the exciting story of rewarding careers in metalcasting.

"The Future of Careers in Metalcasting" features interviews with young metalcasting professionals – engineers, shop floor employees, salespeople, and more. These interviewees explain why they think metalcasting is the right career choice.

"If you're interested in creating something and seeing it all the way through to the finish, then I think the foundry industry is for you," says Gerald Richard of Magma Foundry Technologies, who appears in the video.

The video has been shared at job fairs



"The Future of Careers in Metalcasting" features interviews with young metalcasters.

and college career days, during Manufacturing Day events, and on social media. The goal is for job-seekers, parents, teachers and career counselors to see the many fulfilling and important jobs available in

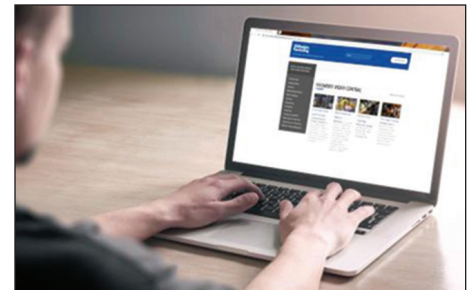
the metalcasting industry. If your company is hiring new employees, please consider sharing the video online or at your next recruitment event. A link is available at [afsinc.org/careers-metalcasting](https://afsinc.org/careers-metalcasting).

## AFS offers cost-efficient, high-profile messaging for foundries and suppliers

Has your company produced a promotional video that you'd like more casting buyers and designers to see? Foundry Video Central and Supplier Video Central are web platforms on which to can share your company's capabilities and expertise with key customers and prospects. You can post your company video online and gain an important additional way for customers to engage with you.

If you have already produced videos, this is how to make sure your content is being seen by your target audience. AFS will promote these videos continuously to ensure steady traffic. You will receive periodic reports from AFS indicating the number of page views for your videos.

Quantity discounts are available for multiple video placements at the time of purchase. Video placements are for a



Companies can target their customers with promotion videos on Foundry and Supplier Video Central.

12-month period. For more information, visit [afsinc.org](https://afsinc.org).

## AFS STUDENT CHAPTERS

### New AFS Student Chapter launches at Worcester Poly

Worcester Polytechnic Institute (Worcester, Massachusetts) is the newest school to established an AFS Stu-

dent Chapter on campus.

Worcester Polytechnic joins 40 other colleges and universities in hosting its own chapter.

The AFS Board of Directors approved the



school's application on Jan. 25.

AFS Student Chapters operate on campuses throughout North America. Run by students under the guidance of faculty and industrial advisors and supported by AFS, Student Chapter members further their metalcasting skills by networking with peers and professionals, manufacturing castings, conducting outreach, competing in casting competitions, and more.



# AFS approves lost foam research project

AFS recently approved a research project aligned with its Lost Foam Division's goal of expanding the marketability of the lost foam casting process. The project, "Lost Foam Casting Molds Produced Using Additive Manufacturing," will demonstrate the production of tools for high-mix/low-volume to high-production-level tools using 3D printed metal.

Currently, lost foam tooling is, in gen-

eral, prohibitively expensive and requires long lead times associated with the complexity of the tool designs and high-volume production. There is a larger market for lost foam casting if the tooling costs can be brought closer in-line with automated green sand molding.

The study aims to provide the lost foam casting industry with alternative methods to produce tools for short,

medium, and long run casting production. The objective is to determine the applicable metal additive manufacturing method and material considering material durability, material costs, cycle time, equipment costs, and skill level required, as compared to conventional methods.

The expected duration for the project is 24 weeks.

## MID-ATLANTIC continued from Page 7

have been there or been on the board and have that experience to bring us through the ranks," she said. "There are a lot of younger people on the board because I feel like some of [the tenured members] are wanting others to come in and step up."

The Mid-Atlantic Chapter is already off to a booming start, launching its website using the AFS Corporate Template and adding new events.

Former chapter traditions won't be lost, though. They will be merged into Mid-At-

lantic events, including Chesapeake's annual Shrimp, Bull & Oyster Feast fundraiser happening in mid-February.

Finefrock says the Mid-Atlantic Chapter is still working on where to host bigger seminars and conferences, but they're excited about how far they have come.

"It feels good knowing we're getting some place," Finefrock said. "We were struggling there for a while on how to merge, but with the help of AFS, we are moving in the right direction."

For more information, visit [midatlantic.afschaptersites.com](http://midatlantic.afschaptersites.com).



Members of the new AFS Mid-Atlantic Chapter meet at Thaddeus Stevens College of Technology in Lancaster, Pennsylvania.



# AFS METALCASTING CONGRESS

April 21-23, 2020  
Cleveland, OH

The \$33 billion metalcasting industry is poised for further growth and investment.

Seize the opportunities at **Metalcasting Congress 2020.**

Register today at [metalcastingcongress.com](http://metalcastingcongress.com)





# THE AFS CORPORATE MEMBER ADVANTAGE

## Business Opportunities & Branding

- **Trade Show/Exhibit Space Discounts** - Save money on exhibits and attendance at CastExpo and Metalcasting Congress (Discounts vary)
- **Sponsorships** - Only corporate members are eligible to sponsor for AFS management events
- **Referrals** - AFS refers customer inquiries to corporate members
- **Logo** - Corporate members can add credibility to their business by using the AFS logo on brochures and websites
- **Premium Casting Source Directory Promotion** - Receive placement in CSD, used by nearly 25,000 casting buyers and design engineers
- **AFS Shipping Solutions** - Take advantage of shipping savings.(Savings vary)
- **Business Development** - Workforce Development Forum

## Industry Intelligence

- **Annual Metalcasting Forecast** - This crucial marketplace outlook is free to corporate members (\$1,000 value)
- **Wage and Benefit Survey** - Key compensation information, free to participating corporate members (\$1,000 value)
- **World Foundry Organization Annual Census** - A look at the state of the worldwide metalcasting industry is delivered free to corporate members

## Workforce & Career Development

- **Leadership Training & Sustainability** - AFS trains the current and future leaders of metalcasting
- **Building the Next Generation of Metalcasters** - Student chapters, Institute training, foundry demonstrations, Melting Point magazine and more attract new talent to the industry
- **Regional Chapters** - Individual members may join AFS regional chapters
- **Casting Connection** - Members can ask questions and get answers from peers through this metalcasting social network
- **Industry Job Descriptions** - AFS' complete, detailed list of metalcasting industry job descriptions is available for corporate members to use for recruiting, evaluations, or other workforce needs
- **Metalcasting Job Board** - Save 50% when you post jobs on the AFS Job Board
- **Event Discounts** - Save on registration for AFS educational and networking events AFS (Discounts vary)

## Government Advocacy

- **Legislative Influence** - On Capitol Hill, AFS shapes a better business climate for metalcasters

## Education

- **In-Plant Training** - Corporate members receive a \$2,000-\$4,000 discount
- **Classroom Courses** - Receive discounts on classes for new and experienced metalcasters (\$200 discount per person)
- **Free AFS Members Only Webinars** - All employees of corporate members participate in technical and management webinars (\$250 value per session)
- **E-Learning** - Corporate members are eligible to subscribe for unlimited access to AFS Institute e-Learning in English and Spanish
- **AFS Library** - Receive free online access to the AFS Library, the world's largest collection of metalcasting research papers and articles

## Technical, Management, Research Support, & Innovation

- **Driving Research** - 8% of Corporate dues support AFS research, including 40 projects currently underway
- **Committee Membership** - Individual members engage on AFS committees, which sponsor research and help establish industry standards
- **Technical Assistance** - The AFS technical services team is ready for your calls on technical, metallurgical, and EHS questions, and casting design assistance, with top priority going to corporate members
- **HR Consulting** - AFS provides foundry-specific insights and assistance for your human resources needs
- **Energy Consulting** - AFS can help with questions about energy costs, consumption and efficiency

## Books & Publications

- **Modern Casting** - A subscription to one of the industry's leading trade magazines, delivered monthly (\$109 value)
- **International Journal of Metalcasting** - A subscription to AFS' metalcasting research journal (\$199 value)
- **Member Connections** - A quarterly print publication featuring industry, AFS and chapter news (\$40 value)
- **Book Discounts** - Get 50% off on AFS-published technical books
- **AFS Insider News** - Stay up-to-date on industry news and AFS events with this weekly e-newsletter

# AFS WELCOMES NEW CORPORATE MEMBERS



APPLIED CERAMICS

Applied Ceramics Inc.



BOOSE QUALITY CASTINGS

Boose Quality Castings



Decco Castings

Decco Castings Inc.



Dolphin Inc.



General Aluminum



Green Diamond  
Performance Materials



Induction Technology  
Corp.



Meltlab Systems



Nederman Mikropul



RPB Safety LLC



World Known  
Precision Industry

## AFS EVENTS

Feb. 6-7 | **Metalcasting Management & Development Summit** | New Orleans, LA  
March 3-4 | **Environmental 101 Seminar** | Schaumburg, IL  
April 21-23 | **Metalcasting Congress 2020** | Cleveland, OH  
May 12-13 | **Practical Cupola Workshop** | Rockford, IL  
May 19-20 | **Government Affairs Fly-In** | Washington, D.C.  
June 9-10 | **Foundry 4.0** | Itasca, IL

## INSTITUTE COURSES

Feb. 5-6 | **Gating and Riser Design 101** | Lancaster, PA  
Feb. 12-13 | **Improving the Effectiveness of Visual Inspection** | Charlotte, NC  
Feb. 19-20 | **Introduction to Metalcasting** | Schaumburg, IL  
Feb. 26-27 | **Iron Melting 201** | Birmingham, AL  
March 4-5 | **Improving the Effectiveness of Visual Inspection** | Detroit, MI  
Mar. 11-12 | **Casting Design** | Charlotte, NC  
Mar. 18-19 | **Green Sand Molding 201** | Detroit, MI

## 2019-2020 AFS OFFICERS

**President**  
Peter C. Reich, Co-Owner,  
LAEMPE REICH

**Vice President**  
Michael L. Lenahan, CEO,  
KB Foundry Services

**2nd Vice President**  
Jim Frost  
Director Quality Systems &  
Compliance,  
AMERICAN Cast Iron Pipe  
Company

**Immediate Past President**  
Jean Bye, President and CEO,  
Dotson Iron Castings

## AFS SENIOR STAFF

**CEO**  
Doug Kurkul, [dkurkul@afsinc.org](mailto:dkurkul@afsinc.org)

**Chief Technical Services Officer**  
Steve Robison, [srobison@afsinc.org](mailto:srobison@afsinc.org)

**Vice President of Business Development**  
Ben Yates, [byates@afsinc.org](mailto:byates@afsinc.org)

**Vice President of Education & Workforce Development**  
Clarence Trowbridge,  
[ctrowbridge@afsinc.org](mailto:ctrowbridge@afsinc.org)

**Vice President of Marketing & Communications**  
Richard Jefferson,  
[rjefferson@afsinc.org](mailto:rjefferson@afsinc.org)

**Vice President of IT & Operations**  
Mike Lakas, [mlakas@afsinc.org](mailto:mlakas@afsinc.org)

**Director of Accounting & Finance**  
Peggy Mennella, [pmennella@afsinc.org](mailto:pmennella@afsinc.org)

**Director of Human Resources & Administrative Services**  
Cathy Potts, [cpotts@afsinc.org](mailto:cpotts@afsinc.org)

## MEMBER CONNECTIONS STAFF

**Editor & Writer**  
Katelyn Stanek, [kstanek@afsinc.org](mailto:kstanek@afsinc.org)  
**Writer**  
Jessie Schlacks, [jschlacks@afsinc.org](mailto:jschlacks@afsinc.org)  
**Senior Manager of Creative Services**  
Tyler Buchenot, [tbuchenot@afsinc.org](mailto:tbuchenot@afsinc.org)

Published by AFS, Schaumburg, IL

*Member Connections* is a newsletter for all current AFS members. Send all inquiries to Katelyn Stanek at [kstanek@afsinc.org](mailto:kstanek@afsinc.org) or 847-824-0181 ext. 286.

**AFS**  
AND THE INSTITUTE  
ADVOCATE. EDUCATE. INNOVATE.

# FOUNDRY 4.0

**DIGITAL MANUFACTURING IN THE METALCASTING INDUSTRY**

JUNE 9-10, 2020 | EAGLEWOOD RESORT & SPA | ITASCA, IL

## What will a foundry look like in 10 years?

The designation "4.0" is often used in reference to the next phase of the Industrial Revolution (the "Fourth Industrial Revolution") and generally expresses the impact of smart manufacturing and the implementation of technology in manufacturing.

Register today at:  
[www.afsinc.org/Foundry4.0](http://www.afsinc.org/Foundry4.0)