

# 33<sup>rd</sup> Environmental, Health & Safety Conference

Wynfrey Hotel | Birmingham, AL | October 5 - 7, 2021



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# 33<sup>rd</sup> Environmental, Health & Safety Conference

Wynfrey Hotel | Birmingham, AL | October 5 - 7, 2021

Register online at  
**WWW.AFSINC.ORG/2021EHS**

The annual AFS Environmental, Health & Safety Conference is the singular event for foundry industry EHS professionals to network, benchmark and learn from each other.

Attendees will share case studies of successful EHS projects, hear about cutting-edge issues from EHS and regulatory experts, and meet with vendors of EHS equipment and services. Join your fellow EHS peers in Birmingham, Alabama, for the 33rd AFS Environmental, Health & Safety Conference.

Note: The AFS Advanced Air Seminar will be hosted at the same venue from Oct. 3-4, 2021, leading up to the EHS Conference.

## Tuesday, October 5

7 a.m. - 5:45 p.m.  
CONFERENCE REGISTRATION

7 - 8 a.m.  
CONTINENTAL BREAKFAST

### ENVIRONMENTAL SESSIONS

8 - 8:30 a.m.  
WELCOME/ANNOUNCEMENTS

Ray Ostrowski  
*AFS EHS Division Chair*

### INTRODUCTION

- AFS EHS Committee Overview
- Recognition of AFS EHS Division Members in Attendance

CONFERENCE CO-CHAIRS  
Dan Plant  
*Metal Technologies Inc., Auburn, IN*

Daniel Engling  
*Keramida, Inc., Indianapolis, IN*

8:30 - 9:15 a.m.  
KEY CHANGES TO EPA'S MULTI-SECTOR GENERAL PERMIT (MSGP), OPPORTUNITIES FOR FURTHER ENGAGEMENT AND RECENT UPDATES (KEYNOTE)

Jeff Longsworth  
*Barnes & Thornburg, Washington, DC*

- Summary of recent changes to EPA's industrial stormwater discharge requirements and the legal challenges to the new MSGP.

9:15 - 10 a.m.  
STATE AIR TOXICS REQUIREMENTS - COMING TO A STATE NEAR YOU

Scot Aler  
*US Pipe and Foundry Company, LLC, Bessemer, AL*

Jeff Hannapel  
*The Policy Group, Rockville, MD*

Tony Pitts  
*EJ, East Jordan, MI*

Jenny Pappalardo (invited)  
*Charlotte Pipe and Foundry Company, Charlotte, NC*

- State Specific Requirements
- Operations and Pollutants of Concern
- How to be Proactive?

10 - 10:15 a.m.  
REFRESHMENT BREAK

10:15 - 11:15 a.m.  
GREEN FOUNDRY CASE STUDIES

David Georgeson & Derek Webster  
*McWane Ductile Utah, Provo, UT*

Kimberly Hinebaugh  
*John Deere Waterloo Works, Waterloo, IA*

McWane Ductile Utah's energy audit identified an outdated compressed air system that was using approximately 27% of plantwide energy use. The system received two upgrades: 1) The outdated rotary screw compressors were replaced with new, more efficient centrifugal compressors. The new compressors automatically adjusted output to meet demand. 2) The main compressed air line was replumbed to eliminate the former loop system, making it easier to isolate sections. Energy consumption was reduced by approximately 2500 megawatts per year, which was approximately equal to eliminating 2600 tons of carbon dioxide emissions per year. The cost savings were estimated at \$190,000 per year, with an ROI of 2 years.

The judges were impressed with John Deere's determination to work past numerous hurdles and to find a cement manufacturer close enough to accept their spent foundry sand on a cost-neutral basis as compared to their prior local disposal method. John Deere Foundry staff showed persistence and determination in working out storage issues, quality control processing, and transport issues to make a viable arrangement to reuse the spent foundry sand rather than continue to send it to their local quarry, which was running out of space.

11:15 a.m. - Noon  
ENVIRONMENTAL GROUPS - ADVERSARIES OR PARTNERS?

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

PANELISTS:  
Keith Johnston  
*Southern Environmental Law Center, Birmingham, AL*

Mitchell Reid  
*The Nature Conservancy, Arlington County, VA*

Noon - 1 p.m.  
LUNCH

1 - 1:45 p.m.  
AIR QUALITY DIVISION - EMISSIONS BENCHMARKING PROJECT

Craig Schmeisser  
*Mad River Strategies, LLC, New Bremen, OH*

- Database layout and parameters
- Characterization of collected data
- Latest benchmarking information

1:45 - 2:30 p.m.  
FOUNDRY SOURCE TESTING -  
ENHANCING SUCCESSES AND AVOIDING FAILURES

Tommy Lotz  
*Alliance Technology Group, Birmingham, AL*

- Understanding PM10 testing and analytical artifacts
- Things to look for in a Method 5/202/25A stack test report
- Using test duration to your advantage

2:30 - 2:45 p.m.  
REFRESHMENT BREAK

2:45 - 3:45 p.m.  
AIR TOXICS REGULATIONS: THE NOT SO SLEEPING GIANT -  
GOING WHERE MACT AND GACT DIDN'T

Vic LaFay & Pat LaFay  
*Common Sense Applications LLC*

- Material Substitutions and Process Changes
- Predictive Analysis of Emissions

3:45 - 4:30 p.m.  
UNDERSTANDING PFAS FROM A FOUNDRY PERSPECTIVE

Jeff Longsworth  
*Barnes & Thornburg, Washington, DC*

- Update on PFAS regulatory, legislative and policy developments and the potential impacts on the metalcasting industry.

4:30 - 5:45 p.m.  
ENVIRONMENTAL SESSION FOR "METALCASTERS ONLY"

MODERATOR:  
John Batchelor  
*American Cast Iron Pipe Company, Birmingham, AL*

PANELISTS:  
Amy Kosbab  
*Amsted Rail Co., Groveport, OH*

Dan Plant  
*Metal Technologies Inc., Auburn, IN*

Jenny Pappalardo  
*Charlotte Pipe & Foundry Co., Charlotte, NC*

## Wednesday, October 6

7 - 8 a.m.  
REGISTRATION/CONTINENTAL BREAKFAST

### COMBINED ENVIRONMENTAL/HEALTH & SAFETY SESSIONS

8 - 8:45 a.m.  
CLIMATE CHANGE KEYNOTE ADDRESS

TBA

8:45 - 9:30 a.m.  
ENVIRONMENTAL JUSTICE - REAL WORLD IMPACTS

Monica Perez  
*Schroek, Herold Law, PLC*

- Environmental Justice Laws are everywhere
  - o Federal
  - o States with Environmental Justice Laws (Pending/Passed)
- New Jersey Environmental Justice Law
- NJDEP rulemaking and initiatives
- Potential impact to Permitting and Businesses

9:30 -10:30 a.m.  
EHS HOT TOPICS

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

WATER & WASTE  
Bryant Esch  
*Waupaca Foundry, Inc., Waupaca, WI*

HEALTH & SAFETY  
Brent Charlton  
*Metal Technologies Auburn LLC, Auburn, IN*

10:30 - 10:45 a.m.  
REFRESHMENT BREAK

10:45 - 11:30 a.m.  
ENGAGING SOCIAL MEDIA FOR SAFETY

Brent Charlton  
*Metal Technologies Auburn LLC, Auburn, IN*

- Using social media to get your message out to your workforce and beyond.

11:30 a.m. - 12:15 p.m.  
VOLUNTARY CONSENSUS STANDARDS

Tom Slavin  
*Slavin OSH Group LLC, Chicago, IL*

- What is a voluntary standard; is it really voluntary?
- OSHA's use of standards for regulation and enforcement
- How standards are developed and why you should be involved

12:15 - 12:30 p.m.  
EHS AWARD PRESENTATIONS:

- AFS Division Individual Awards
- 2021 AFS Metalcasting Safe Year Awards
- Green Foundry Awards
- Innovation & Insight Awards
- 2020 Millionaires Safety Award

12:30 - 1:30 p.m.  
LUNCH WITH EXHIBITORS



1:30 - 2:15 p.m.  
**WHY ARE MY CUSTOMERS ASKING SO MANY QUESTIONS? CUSTOMER DISCLOSURE REQUESTS (REACH/ROHS/PROP 65/CONFLICT MINERALS/CARBON)**

Dan Plant  
*Metal Technologies Inc., Auburn, IN*

Bryant Esch  
*Waupaca Foundry, Inc., Waupaca, WI*

The metalcasting industry is experiencing increasing demand from its customer base to provide accurate information to assist in satisfying the requirements of elective and regulatory programs to better understand the sourcing and composition of cast products, and potential impacts (if any) to the end user. From the metalcasting facility perspective, this presentation will provide a review of the various programs that may generate such requests, what types of formats these requests may be received by your facility, and case study examples of how such requests may be satisfied.

2:15 - 3 p.m.  
**WASHINGTON UPDATE/BIDEN ADMINISTRATION REGULATORY PRIORITIES**

Jeff Hannapel  
*The Policy Group, Rockville, MD*

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

AFS Washington Office will provide key updates on EHS legislative, regulatory, and policy developments impacting the metalcasting industry. The Biden administration promised to increase OSHA's budget, grow the number of inspectors and generally ramp up enforcement. In particular, we will focus on the new rulemaking efforts under development that will impact foundries, as well as a enforcement initiatives and recent fines.

3 - 3:30 p.m.  
**REFRESHMENT BREAK WITH EXHIBITORS**

3:30 - 4:15 p.m.  
**PANEL: USE OF REAL-TIME AIR SAMPLING METHODS IN FOUNDRY PROGRAMS TO CONTROL WORKER EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA**

MODERATOR:  
Brent Charlton  
*Metal Technologies Auburn LLC, Auburn IN*

PANELISTS:  
Rebecca Ferrell  
*TRC, Brookfield, WI*

Eric Pylkas  
*Insight IH Consulting, Hartland, WI*

Daniel Engling  
*Keramida, Inc., Indianapolis, IN*

Discussion will be focused on the current status of applying real-time sampling methods in this application, including capability to:

- Identify root causes of worker exposure
- Assess process-related emission sources
- Diagnose ventilation system defects

4:15 - 5 p.m.  
**OH NO, THE INSPECTOR IS HERE**

FACILITATORS:  
Mike Lenahan  
*Kurtz Bros. Inc., Independence, OH*

Jenny Pappalardo  
*Charlotte Pipe & Foundry Co., Charlotte, NC*

ACTORS:  
AFS All Stars

How to successfully manage visits from regulatory Personnel.

5:30 - 7:30 p.m.  
**ANNUAL RECEPTION WITH EXHIBITORS**

Enjoy networking time with exhibitors with hors d 'oeuvres, & refreshments for all.

## Thursday, October 7

### HEALTH AND SAFETY SESSIONS

7:30 - 8 a.m.  
**REGISTRATION/CONTINENTAL BREAKFAST**

8 - 8:45 a.m.  
**TOP OSHA PRIORITIES UNDER THE BIDEN ADMINISTRATION**

James Frederick  
*Deputy Assistant Secretary, Occupational Safety and Health Administration (Invited)*

The Biden administration has made worker safety a top priority. This session will take stock of what has happened at the Occupational Safety and Health Administration (OSHA) during the first ten months of the Biden Administration, as well as provide a look ahead. We will hear about the new OSHA leadership team, ongoing enforcement efforts surrounding COVID-19, enforcement priorities and strategies, and upcoming rulemakings that will impact foundry operations.

8:45 - 9:15 a.m.  
**HEARING CONSERVATION - THE MULTIPLE VALUES OF FIT TESTING**

Sally Crabtree  
*3M Personal Safety Division, Saint Paul, MN*

- Why fit test hearing protection?
- How does fit testing hearing protection work?
- Live demonstration of 3M's EarFit system

9:15 - 10 a.m.  
**LEADING METRICS- A BETTER WAY TO MANAGE SAFETY**

Paul Lynes  
*Finger Lynes Engineering, Nashville, TN*

Pete Buczek  
*WGS Global Services LLC, Flint, MI*

- Leading or lagging - What's the difference
- Why use leading metrics
- Managing by metrics - How leading metrics can drive improvement

10 - 10:15 a.m.  
**REFRESHMENT BREAK**

10:15 - 11 a.m.  
**MANAGING THE CHALLENGES OF COVID-19**

Mickey Hannum  
*McWane Inc., Birmingham, AL*

One company's approach to protecting team members from COVID-19 while continuing to operate all locations. This presentation will provide an overview of McWane's approach to handling the many challenges the pandemic presented to manufacturing operations.

- Initial challenge of understanding the issue
- COVID-19 Team and guideline development
- Risk assessments and specific procedures
- Continuous changes with CDC
- Vaccinations
- What did we learn?

11 - 11:45 a.m.  
**ASTM HEAT STRESS STANDARD**

MODERATOR:  
Daniel Engling  
*Keramida, Inc., Indianapolis, IN*

PANELISTS:  
Brent Charlton  
*Metal Technologies Auburn LLC, Auburn, IN*

Tom Slavin  
*Slavin OSH Group LLC, Chicago, IL*

- How foundries cope with heat
- ASTM Standard development and content
- What the ASTM standard means for you

11:45 a.m. - 12:45 p.m.  
**LUNCH**

12:45 - 1:30 p.m.  
**USING LEARNING TEAMS TO IMPROVE SAFETY (AND QUALITY AND PRODUCTIVITY!)**

Brent Charlton  
*Metal Technologies Auburn LLC, Auburn, IN*

- Learning is vital to an organization's performance
- Much can be learned from those at the "sharp end of the stick"
- Why is there often a difference between "work as imagined" and "work as done?"

1:30 - 2:15 p.m.  
**HEALTH AND SAFETY CONSIDERATIONS ASSOCIATED WITH ADDITIVE MANUFACTURING (3D PRINTING) PROCESS**

Kay Rowntree  
*Industrial Hygiene Sciences LLC, Waterford, WI*

- Types of processes
- Characterization of hazards
- Potential emissions and exposures during pre-printing, printing, post-printing, and maintenance
- Worker protection measures

2:15 - 3 p.m.  
**PROBLEM SOLVING METHOD FOR CONTROLLING WORKER EXPOSURE TO FOUNDRY AIR CONTAMINANTS**

Earl Miller and Brian McGuire  
*Accurate Castings Inc., Hiler Industries, La Porte, IN*

Examples using the method, "Four Sight," a Creative Problem-Solving Method Framework applicable to any problem solving, including ventilation improvements.

- Clarify context and set guardrails
- Brainstorm potential concepts
- Develop and refine concepts, including prototyping
- Implement concepts, measure and pivot

3 - 3:45 p.m.  
**SEVEN KEY SAFETY MESSAGES**

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

Seven key safety beliefs that drive foundry safety performance.

3:45 - 5 p.m.  
**HEALTH AND SAFETY SESSION FOR "METALCASTERS ONLY"**

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

PANELISTS:  
Glenn Huneycutt  
*Charlotte Pipe & Foundry Co., Charlotte, NC*

Bob Forrester  
*Neptune Technology Group Inc., Tallassee, AL*

Josh Gunning  
*M&H Valve, Anniston, AL*

5 p.m.  
**CONFERENCE ENDS**

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Early Registration (Through September 3, 2021)

\$750.00 AFS Member | \$1,125 Non-member

Standard Registration

\$900.00 AFS Member | \$1,350 Non-member

Register online at [www.afsinc.org/2021EHS](http://www.afsinc.org/2021EHS) or return form to American Foundry Society

35169 Eagle Way, Chicago, IL 60678-1351

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Authorized Signature

Are you attending the networking reception on 10/6/21? ☐ Yes ☐ No

How did you hear about the conference?

☐ Email ☐ Internet ☐ Social Media ☐ Announcement/Hand-Out  
☐ Magazine ☐ Word of Mouth ☐ Other \_\_\_\_\_

## Conference Cancellations and Substitutions:

Substitutions will be accepted anytime. However, cancellation of registrants with full refunds must be received in writing by September 5, 2021; no refunds will be granted after that date. In the unlikely event the conference is cancelled for any reason, AFS liability is limited to the return of the registration fee.

## Conference Photo Policy:

Registration for the conference implies consent that pictures, video or audio recording taken during AFS and AFS-related events can be used for conference coverage and promotional purposes. AFS is able to use your likeness without remuneration.

## Hotel Information:

Wynfrey Hotel Birmingham  
1000 Galleria Cir, Birmingham, AL 35244

## Hotel Reservations:

Reservations can be made with the Hotel by calling the hotel directly at 402-593-5098 and mention AFS room block for reservations. The room rate is \$159.00 a night. Check-in time is 3 p.m. and check-out is 11 a.m. The room block cutoff date is September 11, 2021. Any reservations accepted after the cutoff date will be accepted at the group rate based upon availability.

## Hotel Substitutions And Cancellations:

Substitutions will be accepted anytime. If you need to cancel your reservation, you must do so no less than 72-hour prior to the first day of arrival to avoid one (1) night room and tax charge.