

# 2022 Safety 101 Seminar

October 2 - 3, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee

Explore the essentials of metalcasting health and safety at this two-day seminar for people who are relatively new to the field. Topics include:

- OSHA regulations and visits
- Industrial hygiene
- Emergency planning
- Incident investigations
- Electrical safety
- Machine guarding
- Lockout/tagout
- Fire protection
- And more

This conference is for people with fewer than three years of experience in the field and those who serve in multiple roles in addition to safety and health. AFS training certificates are awarded to attendees who are present for the entire conference.

Register today at:

[www.afsinc.org/2022Safety](http://www.afsinc.org/2022Safety)



# 34th Environmental, Health & Safety Conference

October 4 - 6, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee

Benchmark your progress, network with peers, and learn the latest in metalcasting EHS developments at the 34th Environmental, Health and Safety Conference. Professionals from across the industry will gather to discuss successful foundry case studies and best practices, explore cutting-edge issues with industry and regulatory experts, and discover EHS equipment and services from leading vendors.

Note: The AFS Safety 101 Seminar will be hosted at the same venue from Oct. 2-3, 2022, leading up to the EHS Conference.

Register today at:

[www.afsinc.org/2022EHS](http://www.afsinc.org/2022EHS)







# 2022 Safety 101 Seminar

October 2 - 3, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee

## Conference Agenda

### SUNDAY, OCTOBER 2, 2022

**7 – 8 a.m.**  
**Seminar Registration**

**7 – 8 a.m.**  
**Continental Breakfast**

**8 a.m.**  
**Welcome**  
Brent Charlton  
*AFS Safety & Health Committee Chair*

**8 – 8:30 a.m.**  
**Introductions**

- Attendee introductions – Name, where from, how long in safety?
- What do you hope to get from this training?

**8:30 – 9:15 a.m.**  
**You’re the Safety Person – Now What?**  
Tom Slavin  
*Cardno Chemrisk, Chicago, IL*

**9:15 – 10 a.m.**  
**Group Exercise / Refreshment Break**

**10 – 11 a.m.**  
**Occupational Safety and Health Management Systems**  
Paul Lynes  
*FingerLynes Engineering, Nashville, TN*

- A systems approach to identify the OSHA regulations applicable to your foundry
- Identify the tasks to address those regulations
- Provide a system to implement and monitor the tasks

**11 – 11:45 a.m.**  
**Electrical Safety and Arc Flash Requirements**  
Dan Engling  
*Keramida, Inc., Indianapolis, IN*

- Key elements to have in place

**11:45 a.m. – 12:45 p.m.**  
**Lunch**

**12:45 – 1:30 p.m.**  
**Respirable Crystalline Silica**  
Dan Engling  
*Keramida, Inc., Indianapolis, IN*

- The struggles, hurdles, and successes of complying

**1:30 – 2:45 p.m.**  
**Industrial Hygiene Overview**  
Kay Rowntree  
*Industrial Hygiene Sciences, LLC, Waterford, WI*

- Overview of hazardous substances present in foundries- recognition and OSHA requirements
- Noise and hearing conservation
- Exposure assessments and recordkeeping
- Hazard communication

**2:45 – 3:30 p.m.**  
**Group Exercise / Refreshment Break**

**3:30 – 4:30 p.m.**  
**Q & A with Instructors**

**4:30 – 5 p.m.**  
**Wrap-Up and Evaluations**

**5:30 p.m.**  
**Social Time**

Anyone who has attended an in-person AFS event can attest, the socializing and networking is invaluable...and fun! If you are up for it, plan to grab some food and beverage with the rest of the attendees and instructors. You won’t regret it!

### MONDAY, OCTOBER 3, 2022

**7 – 8 a.m.**  
**Continental Breakfast**

**8 – 8:15 a.m.**  
**Questions from Day 1**

**8:15 – 9 a.m.**  
**Emergency Planning / Fire Protection**  
Mickey Hannum  
*McWane Inc., Birmingham, AL*

Katherine Jungwirth  
*The Lawton Standard Co., De Pere, WI*

- Make your plan compliant and effective
- Proper planning to prevent an emergency
- Keep people safe and minimize damage if an emergency occurs

**9 – 9:45 a.m.**  
**Respiratory Protection Programs**  
Kay Rowntree  
*Industrial Hygiene Sciences LLC, Waterford, WI*

- Overview of the OSHA standard
- Voluntary vs required use programs
- Common pitfalls in administering respiratory protection programs

**9:45 – 10:30 a.m.**  
**Group Exercise / Refreshment Break**

**10:30 – 11:15 a.m.**  
**Lockout and Machine Guarding**  
Brent Charlton  
*Metal Technologies of Indiana, LLC, Auburn, IN*

- Requirements of the OSHA standards
- Methods of lockout
- Methods of machine guarding

**11:15 a.m. – Noon**  
**So... You are the Trainer**  
Glenn Huneycutt  
*Charlotte Pipe & Foundry Co., Charlotte, NC*

- Challenges with development
- Understanding what needs to be understood

**Noon – 1 p.m.**  
**Lunch**

**1 – 1:45 p.m.**  
**Safety Metrics – Leading v. Lagging Indicators**  
Paul Lynes  
*FingerLynes Engineering, Nashville, TN*

- Traditional lagging indicators
- Benefits of leading indicators
- Examples of leading indicators and their effectiveness

**1:45 – 2:30 p.m.**  
**Doing Safety Differently**  
Brent Charlton  
*Metal Technologies of Indiana, LLC, Auburn, IN*

- What’s not working and why
- The normalcy of error
- Affecting change

**2:30 – 3:15 p.m.**  
**Group Exercise / Refreshment Break**

**3:15 – 4:15 p.m.**  
**Q & A with Instructors**  
*All Instructors*

**4:15 p.m.**  
**Wrap-Up and Evaluations**



# 34th Environmental, Health & Safety Conference

October 4 - 6, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee

## Conference Agenda

### TUESDAY, OCTOBER 4, 2022

**7 a.m. - 5:45 p.m.**  
Conference Registration

**7 - 8 a.m.**  
Continental Breakfast

#### SAFETY AND HEALTH SESSIONS

**8 - 8:15 a.m.**  
**Welcome / Announcements**  
Craig Schmeisser  
AFS EHS Division Chair  
Mad River Strategies LLC, New Bremen, OH

Introduction

**Conference Co-Chairs**  
Earl Miller  
Hiler Industries, La Porte, IN

Andy Kress  
Waupaca Foundry Inc., Tell City, IN

**8:15 - 9 a.m.**  
**Waste Heat Management - Conserving  
Energy Reduces Heat Exposure**  
Bob Scholz  
TRC, Brookfield, WI

Steven Heger  
Waupaca Foundry, Waupaca, WI

- Reducing waste process heat lowers both heat stress on workers and foundry energy demands
- Phase II of the AFS Heat Stress Initiative
- Waste heat examples include metal melting and casting and other hot foundry processes

**9 - 9:45 a.m.**  
**Using Statistics to Rebut OSHA's One  
Sample Citation Policy**  
Ben Lemley  
TRC, Grand Rapids, MI

- OSHA cites foundries based on a single sample above the PEL, including samples for Respirable Crystalline Silica
- Your foundry's existing exposure compliance data can be useful in discussions with OSHA
- See how NIOSH statistical methods can be used to show OSHA's single sample is within acceptable confidence levels when used with existing data below the PEL

**9:45 - 10 a.m.**  
Refreshment Break

**10 - 10:45 a.m.**  
**Onboarding an Employee that is Not Your Employee**  
Andy Kress  
Waupaca Foundry Inc., Tell City, IN

Glenn Huneycutt  
Charlotte Pipe and Foundry Co., Charlotte, NC

Mickey Hannum  
McWane Inc., Birmingham, AL

- Onboarding training process for temporary employees
- Compliance with silica medical surveillance/audio testing
- Q & A with group to discuss best practices managing temp/contract labor

**10:45 - 11:30 a.m.**  
**Understanding the Fundamentals of Fall  
Protection and OSHA Compliance**  
Patrick Havel  
3M Company Senior Fall Protection Specialist

- Review standards related to working at heights
- Focus on personal fall arrest systems
- Understand what foundries must do to comply with OSHA and why

**11:30 a.m. - 12:30 p.m.**  
Lunch

**12:30 - 1:15 p.m.**  
**Solving LOTO Compliance Challenges  
with ANSI/ASSP Z244.1**  
Todd Grover  
Brady Corp., Oak Creek, WI

- Current details on OSHA citations and concerns
- What's new in ANSI/ASSP Z244.1
- Breakdown of how Z244.1 addresses common compliance issues
  - Alternative Methods to Lockout
  - Justification of Alternative Methods
- Task Hazard Assessments
- Supportive documents in the Z244.1 Annexes

**1:15 - 2 p.m.**  
**Hearing Conservation - It's Much More Than Earplugs**  
Kay Rowntree  
Industrial Hygiene Sciences LLC, Waterford, WI

- OSHA requirements overview
- Noise dosimetry vs "grab sampling"
- Audiometric testing program overview
- Adequacy of hearing protection

**2 - 2:15 p.m.**  
Refreshment Break

**2:15 - 3 p.m.**  
**Experiencing an OSHA Inspection Under the Silica NEP**  
Brent Charlton  
Metal Technologies of Indiana LLC, Auburn, IN

Daniel Schwab  
Metal Technologies Ravenna Ductile Iron, Ravenna, MI

- Our story of a MIOSHA LEP Inspection for Silica
- Lessons learned
- Audience share time - what's your experience?

**3 - 3:45 p.m.**  
**Best Practices in Worker's Compensation  
Claims Management**  
Katie Hensley  
Cottingham & Butler, Dubuque, IA

- "Boots on the ground" best practices
- The "why" behind the paperwork and freezing the facts
- Why the investigation is as important as finding the root cause
- Teamwork required! Communication, return to work, and medical cost containment

**3:45 - 4 p.m.**  
Refreshment Break



4 – 5 p.m.  
Safety & Health Session for “Metalcasters Only” - Topic

**Moderator:**  
Earl Miller  
*Hiler Industries, La Porte, IN*

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

Andy Kress  
*Waupaca Foundry Inc., Tell City, IN*

Mickey Hannum  
*McWane Inc., Birmingham, AL*

This session is for metalcasters only! Are you a regulator, supplier, customer, or a consultant? We appreciate you, but you are not welcome for this session! You know what they say, “there are no dumb questions, only questions you shouldn’t ask in front of certain people!!” This session is for foundry people to ask the tough questions about anything Safety and Health on day 1 and anything Environmental on Day 2. Make sure you fully understand the changing rules and regs or share some foundry best practices – anything EHS. During this session you can feel at ease knowing what gets said here stays here!

WEDNESDAY, OCTOBER 5, 2022

7 – 8 a.m.  
Registration / Continental Breakfast

COMBINED ENVIRONMENTAL  
/HEALTH & SAFETY SESSIONS

8 – 8:15 a.m.  
**Welcome / Announcements**  
Craig Schmeisser  
*AFS EHS Division Chair*  
*Mad River Strategies LLC, New Bremen, OH*

Introduction

- AFS EHS Committee Overview
- Recognition of AFS EHS Division members in attendance

8:15 – 9 a.m.  
**Management of Change (MOC) – Learning from Experience**  
Craig LeNoble  
*Neenah Foundry Co., Neenah, WI*

Kate Yentes  
*Metal Technologies Inc., Auburn, IN*

Jon Loken  
*Waupaca Foundry Inc., Waupaca, WI*

Tony Goettsch  
*Deere & Co., Waterloo, IA*

- MOC failures: Domino effect, increased costs, and never-ending projects
- ISO 14001 implementation, an MOC eye-opener!
- MOC isn’t just for big projects - day-to-day decision-making, too!
- Like any management system, MOC improves over time

9 – 10 a.m.  
**Keynote: There is No Such Thing as Normalization of Deviation**  
Alex Paradies  
*System Improvements Inc.*

- People deviating from the standard is natural
- What is abnormal is excellence
- What organizations can do to normalize excellence

10 – 10:15 a.m.  
Refreshment Break

10:15 – 11 a.m.  
**Ductile Iron Life Cycle Assessment**  
Yongxian Zhu  
*University of Michigan, Ann Arbor, MI*

- Life cycle parametric model for ductile iron casting and design decisions
- Foundry data using measurements from 26% of the US industry
- Comparing life cycle environmental impacts of ductile iron castings with other materials
- Opportunities to improve casting yield and furnace efficiencies

11 a.m. – Noon  
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 of Indiana LLC, Auburn, IN*

Noon – 1 p.m.  
Lunch with EHS Award Presentations

- AFS Division Individual Awards
- 2022 AFS Metalcasting Safe Year Awards
- Green Foundry Awards
- Innovation & Insight Awards
- 2021 Millionaires Safety Award

*Check out Exhibitors before next sessions!*

1 – 1:30 p.m.  
**Washington Update - OSHA’s Latest and Upcoming Activities Affecting U.S. Metalcasters**  
Stephanie Salmon  
*AFS Washington Office, Washington DC*

As we wrap-up fiscal year 2022, it’s time to look back and take stock of what we learned from and about OSHA during this eventful year particularly related to current enforcement tactics and trends, and special initiatives. We will also examine what to expect on new rulemakings going into 2023. Learn the latest on one of the broadest, most significant rulemakings the agency has undertaken in over a decade, a comprehensive occupational standard to regulate heat illness.

1:30 – 2 p.m.  
**Washington Update**  
Jeff Hannapel  
*The Policy Group, Rockville, MD*

Environmental issues continue to make headlines and pose challenges that can impact metalcasting facilities. Hear from the AFS Washington office how the latest developments on environmental issues could shape the political and regulatory landscape and impact your operations.

2 – 2:45 p.m.  
**Environmental Collaborations for a Cleaner and Healthier Wisconsin**  
Paul Mathewson, Ph.D.  
*Clean Wisconsin, Madison, WI*

- Clean Wisconsin Overview
- Example Collaborations (NR 538 Beneficial Reuse, Agriculture Groups, Pavement Sealers)
- A Discussion of Additional Opportunities (mutual support of energy/water/emissions reduction policies, innovation, and the important role of benchmark environmentally conscious facilities)

2:45 – 3:15 p.m.  
Refreshment Break with Exhibitors

3:15 – 4 p.m.  
**Dirty Little Secrets of Science**  
Tom Slavin  
*Slavin OSH Group LLC, Chicago, IL*

- Tales of treachery, trickery, and sloppy science
- Questionable assumptions and models that shape our world
- Facts that get in the way of a good story

4 – 5 p.m.  
Environmental Session for “Metalcasters Only” - Topic

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

**Panelists:**  
Craig LeNoble  
*Neenah Foundry Co., Neenah, WI*

Kate Yentes  
*Metal Technologies Inc., Auburn, IN*

Tony Goettsch  
*Deere & Co., Waterloo, IA*

5:30 – 7:30 p.m.  
Annual Reception with Exhibitors

Networking, time with Exhibitors, hors d’oeuvres, & refreshments for all.



7 – 8 a.m.  
Registration / Continental Breakfast

ENVIRONMENTAL SESSIONS

8 – 8:45 a.m.  
AFS Roadmap to Carbon Reduction  
Jeff Hannapel  
The Policy Group, Rockville, MD

- Strategies and best practices to reduce GHG Emissions
- Measuring and Estimating Foundry Carbon Emissions
- Opportunities for reduction

8:45 – 9:30 a.m.  
Pioneers, Pitfalls and Progress in Beneficial Use

Moderator:  
Mike Lenahan  
Badger Mining Corp., Berlin, WI

Panelists:  
Earl Miller  
Hiler Industries, La Porte, IN

Bryant Esch  
Waupaca Foundry Inc., Waupaca, WI

Mark Pine  
Kurtz Brothers Inc., Independence, OH

Bill Crabtree  
Resource Recovery Corp., Coopersville, MI

Hear from a seasoned panel of foundry recycling experts about practical “what’s working” regarding internal and external recycling strategies for foundry by-products. This panel will share successful tips regarding their own beneficial use journeys, including new innovative recycling solutions to the most challenging of foundry by-products.

9:30 – 9:45 a.m.  
Refreshment Break

9:45 – 10:30 a.m.  
Sustainability Program? How do you even begin?  
Earl Miller  
Hiler Industries, La Porte, IN

Anastasia Kyrmanidou, Ph.D.  
Keramida Inc., Indianapolis, IN

- How to build a meaningful sustainability program
- Selecting sustainability reporting platforms
- Determining sustainability context for your company
- Benchmarking analysis, stakeholder engagement, and implementation
- Responding to customer and supplier requests
- Legal requirements vs. internal/voluntary initiatives, and customer policies

10:30 – 11:15 a.m.  
Beyond Recuperation – Cupola Plant Case Studies in Next Generation Heat Reclamation

David J. Kasun, P.E.  
Director of Foundry Technology, Kuttner North America, Port Washington, WI

Setting the Stage with Thermal Oil Systems

- Foundry Make Up Air Heating
- Blast Air Dehumidification
- Electric Power Generation
- Core Oven Heating/Miscellaneous
- Transporting Heat with Thermal Oil – We Love Chocolate!

11:15 a.m. – Noon  
State Air Toxics – Health Risk Assessments  
Michael Keinath  
Principal, Ramboll

- Drivers for doing an HRA
- How to prepare for an HRA
- What affects results the most
- How do regulatory agencies use HRAs
- How HRAs can be used to engage your community

Noon – 1 p.m.  
Lunch

1 – 1:45 p.m.  
Environmental Justice Experiences  
Jeet Radia  
McWane Inc., Birmingham, AL

- Nearly 30-year-old rule now being enforced in 2022!
- Public hearings for foundries in urban low-income areas
- Foundries forced to relocate

1:45 – 2:30 p.m.  
ERT and CEDRI Reporting – Simplifying the “New” Requirements  
Jerry Richardson  
Amsted Rail, Granite City, IL

Mike Blankestyn  
TRC, Cleveland, OH

- Stack Testing ERT Submittal Requirements
- Method 9 ERT Submittal Requirements
- Semi-Annual Reporting in CEDRI
- Time Saving Tips, Tricks, and Best Practices

2:30 – 2:45 p.m.  
Refreshment Break

2:45 – 3:30 p.m.  
Using the AFS Emission Benchmarking Tool  
Craig Schmeisser  
Mad River Strategies LLC, New Bremen, OH

- Characteristics and Limitations
- Using and Uses of the Tool
- Future Plans

3:30 – 4:15 p.m.  
Stormwater BMPs and the 2021 MSGP App. Q  
Wesley Fleming  
Keramida, Indianapolis, IN

Bryant Esch  
Waupaca Foundry, Inc., Waupaca, WI

- 2021 Multi-Sector General Permit Overview
- Draft “Appendix Q” Stormwater Control Measures strengths...and weaknesses
- Implementing a stormwater Best Practice Strategy at Your Facility

4:15 p.m.  
Adjourn



Thank you to our Sponsors:



2022 Safety  
101 Seminar

October 2 - 3, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee  
**Early Registration:** *Early registration ends 8/10/2022*  
AFS Member: \$600.00 Non-Member: \$900.00  
**Registration:**  
AFS Member: \$720.00 Non-Member: \$1,080.00  
☐ Register for 2022 Safety 101 Seminar

34th Environmental, Health,  
& Safety Conference

October 4 - 6, 2022 | Milwaukee, WI | Hyatt Regency Milwaukee  
**Early Registration:** *Early registration ends 8/10/2022*  
AFS Member: \$750.00 Non-Member: \$1,125.00  
**Registration:**  
AFS Member: \$900.00 Non-Member: \$1,350.00  
☐ Register for 34th Environmental, Health, & Safety Conference

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For Environmental, Health and Safety Conference: Are you attending the reception on Wednesday, Oct. 5? ☐ Yes ☐ No

How did you hear about this seminar/event?

☐ Email ☐ Printed Mailing ☐ Internet ☐ Social Media  
☐ Magazine ☐ Announcement/Handout ☐ Word of Mouth ☐ Other \_\_\_\_\_

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RETURN FORM TO:

American Foundry Society  
35169 Eagle Way, Chicago, IL 60678-1351  
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TAX DEDUCTION OF EXPENSES:

An income tax deduction is allowed for expenses of education, including registration fee, travel, meals and lodging, undertaken to maintain and improve professional skills (see U.S. Treasury Regulation 1.162-5).

HOTEL INFORMATION:

Hyatt Regency Milwaukee  
333 W Kilbourn Ave,  
Milwaukee, WI 53203

HOTEL RESERVATIONS:

Standard room rate of \$159.00 + taxes/fees. Attendees can reserve directly with the hotel by calling 414-276-1234 and requesting the AFS room block. The hotel's check-in time is 3 p.m. Check-in prior to the hotel's published check-in times are subject to availability. Check-out time is noon.

HOTEL CANCELLATIONS:

Reservations must be cancelled 48 hours prior to arrival to avoid a penalty of one night room and tax. If cancelled within 48 hours of arrival date, credit card provided in reservation will be charged 1 night room and tax as penalty.

CONFERENCE CANCELLATIONS & SUBSTITUTIONS:

AFS presents a variety of technical and management conferences (in both in-person and virtual formats). The refund policy for AFS conferences is as follows: 1) Substitutions are accepted at no charge at any time up until the start of the conference; 2) Full refunds are offered if AFS is notified in writing of cancellation at least 30 days in advance of the conference. No refunds or credits are available for less than 30 days written notice.

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.





## **American Foundry Society**

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