

SESHA 2026 FALL MINI-CONFERENCE

October 29-30, 2026
Saratoga Springs, NY
Embassy Suites Saratoga Springs



PROGRAM GUIDE

Schedule, Session & Speaker Guide

EMBASSY SUITES SARATOGA SPRINGS

Saratoga Springs, New York

Schedule at a Glance

Preliminary schedule — subject to change.

Thursday, October 29

8:00 AM – 5:00 PM	Registration	Grand Ballroom Foyer
	SESSION 1 (Boot Camp 201) Grand Ballroom	SESSION 2 Pearless
9:00 AM – 11:00 AM	Boot Camp 201	Session 2A: EHS Challenges in Working with III-V Materials
11:00 AM – 12:30 PM	LUNCH	Kelsey's Foyer
12:30 PM – 2:30 PM	Boot Camp 201	Session 2B: Risk Assessments: Understanding Methodologies and SEMI Guidelines
2:30 PM – 3:00 PM	BREAK	
3:00 PM – 5:00 PM	Boot Camp 201	Session 2C: NFPA 318 MAQ – A Review of Current Standards and the Basis for Creation

Friday, October 30

8:00 AM – 4:00 PM	Registration	Grand Ballroom Foyer
8:30 AM – 8:45 AM	OPENING	Grand Ballroom
	TRACK 1: ENVIRONMENTAL Grand Ballroom	TRACK 2: SAFETY / WELLNESS / SECURITY Pearless
9:00 AM – 10:00 AM	Session 1: Building a Rock-Solid Chemical Management Program: Reducing Risk from Purchase to Disposal	Session 1: Quantum Leaps, Controlled Risks: Worker Protection for III-V Semiconductors
10:00 AM – 10:30 AM	Session 2: NYS Greenhouse Gas Reporting Rule Overview	Session 2: OSHA PSM (29 CFR 1910.119) in the Semiconductor Industry
10:30 AM – 11:00 AM	BREAK	
11:00 AM – 12:00 PM	Session 3: Reducing EHS Risk in Semiconductor Piping and Tubing Systems with Patented, Permanent Metal-to-Metal Joints	Session 3: MOCVD Gas Cabinets: The Most Critical Square Meter in the Facility
12:00 PM – 1:00 PM	LUNCH	
1:00 PM – 1:30 PM	Session 4: Inspection of Tanks and Piping in Semiconductor Facilities	Session 4: Semiconductor Ramp Safety
1:30 PM – 2:00 PM	Session 5: Staying Ahead of the Curve: Navigating ISO Updates for EHS Management Systems and Auditing	Session 5: Pyrophoric Updates
2:00 PM – 2:30 PM	BREAK	
2:30 PM – 3:15 PM	Session 6: Introduction to EHS Regulatory Requirements & Industry Best Practices – Bootcamp 101 Revisit	Grand Ballroom

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SESHA gratefully acknowledges the organizations supporting the 2026 Fall Mini-Conference

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PROFESSIONAL DEVELOPMENT COURSE

Thursday, October 29 | 9:00 AM – 5:00 PM | Grand Ballroom

Boot Camp 201: Semiconductor Fabrication for EHS Professionals**Presented by SESA Subject Matter Experts — KFPI, GlobalFoundries, Riverview Consulting, Applied Materials**

The NE Regional SESA Mini-Conference continues the Semiconductor Bootcamp for EHS professionals in Saratoga Springs. Bootcamp 201 will deep dive into the following topics:

- Semiconductor Fabrication Overview (baseline setting)
 - Language of the Industry (handout)
 - Overview of Semiconductor Manufacturing
 - Resources
- The chemistry and hazards of semiconductor precursors (continuing with the 2026 theme of high-risk materials)
- Codes, Compliance and Control Strategies for Toxic HPM Gases (control strategies to limit exposure and the code/best practices that drive the strategy)
- Emergency Response Bootcamp (preparing your site in case something does not go as planned)
- Introduction to Exhaust Management, Abatement, and Air Emissions (management of HPM gases exhaust)
- Environmental Considerations (a look at the environmental aspects of a semiconductor plant)

Thursday, October 29 | 9:00 AM – 11:00 AM | Pearless

EHS Challenges in Working with III-V Materials**David Speed — GlobalFoundries**

Elements like indium, arsenic, and antimony that belong to Groups III and V of the periodic table are critical to a number of emerging photonic and quantum computing applications, but bring new EHS challenges. This talk addresses the chemical, environmental, health, and safety aspects of working with these materials. Chemical properties, precursor handling, epitaxial film deposition, plasma etch, wet clean, CMP, exhaust, and wastewater — are addressed, including exposure pathways, wafer off-gas hazards, line-integration controls, and aqueous fate.

SPEAKER BIO

David Speed is a Fellow at GlobalFoundries where he works in the Corporate EHS & Sustainability group. He has developed chemical recycling processes, water and waste treatment processes, air emission control systems, and led a number of chemical substitution and manufacturing process optimization projects. He also participates regularly in new technology development projects. He has a PhD in Environmental Engineering from the University of Connecticut, with B.S. and M.S. degrees from RPI and URI. He has published over 20 papers and holds 4 patents.

Thursday, October 29 | 12:30 PM – 2:30 PM | Pearless

Risk Assessments: Understanding Methodologies and SEMI Guidelines

Brian Desrosiers, CSP, OHST, CPSA, CCPSC — J.S. Held LLC

Effective risk assessment is a foundational element of semiconductor manufacturing safety programs. This session will provide an overview of the SEMI S10 Safety Guideline for Risk Assessment and Risk Evaluation Processes and SEMI S14 Safety Guideline for Fire Risk Assessment and Mitigation for Semiconductor Manufacturing Equipment standards, with a focus on their practical application at the facility level. Participants will learn how these guidelines can be used to identify, evaluate, and mitigate operational and fire-related hazards in alignment with semiconductor industry best practices. The session will also explore a range of risk assessment methodologies and implementation strategies that organizations can adopt to strengthen risk management processes, improve decision-making, and enhance overall safety performance.

SPEAKER BIO

Brian Desrosiers, CSP, OHST, CPSA, CCPSC, is Director of Occupational Safety and Risk Services. Brian helps lead Occupational Safety and Process Safety Management (PSM) services globally for J.S. Held, supporting strategic growth, service delivery, and client engagement in high-risk and regulated industries. Brian brings over 13 years of global experience in occupational safety, industrial hygiene, and Process Safety Management (PSM). He specializes in the development, implementation, and optimization of safety systems across a wide range of industries. Brian partners with clients to deliver strategic and innovative solutions for managing occupational risks, enhancing safety culture, and ensuring regulatory compliance.

Thursday, October 29 | 3:00 PM – 5:00 PM | Pearless

NFPA 318 MAQ – A Review of Current Standards and the Basis for Creation

Marc Hodapp — Fire & Risk Alliance

OPENING

Friday, October 30 | 8:30 AM – 8:45 AM | Grand Ballroom

Opening Session*Jim Mulligan — GlobalFoundries***TRACK 1: ENVIRONMENTAL**

Friday, October 30 | 9:00 AM – 10:00 AM | Grand Ballroom

Building a Rock-Solid Chemical Management Program: Reducing Risk from Purchase to Disposal*Carolyn Wesolek, MS — BSI Consulting Services*

In today's fast-paced workplace, chemicals can be easily purchased and introduced into operations without adequate review or oversight. This session explores best management practices for chemical approval, training, storage, SDS management, labeling, inventory control, and waste handling. Attendees will learn practical strategies to reduce risk, improve compliance, and strengthen chemical safety programs throughout the chemical lifecycle.

SPEAKER BIO

Carolyn Wesolek, MS, is a Senior Environmental, Health, Safety & Sustainability professional with 28 years of experience helping organizations improve safety performance, manage risk, and achieve regulatory compliance across industrial and construction environments. Her expertise includes many facets of environmental health and safety compliance including chemical management, contractor safety, auditing, operational excellence, and safety culture transformation.

Friday, October 30 | 10:00 AM – 10:30 AM | Grand Ballroom

NYS Greenhouse Gas Reporting Rule Overview*Kenneth Fay — Trinity Consultants*

Friday, October 30 | 11:00 AM – 12:00 PM | Grand Ballroom

Reducing EHS Risk in Semiconductor Piping and Tubing Systems with Patented, Permanent Metal-to-Metal Joints*Chris Brickner — LOKRING Northeast*

Semiconductor facilities rely on piping and tubing systems that transport hazardous gases, chemicals, process wastes, and critical utilities. Installation, modification, and maintenance of these systems can introduce EHS challenges associated with hot work, potential leak points, worker exposure, and facility downtime. This presentation will examine the use of patented, permanent metal-to-metal joining technology as an alternative to welded and conventional mechanical connections. The discussion will cover cold-work installation, metal-to-metal sealing principles, leak-tight performance, engineering qualification, post-installation inspection, and semiconductor applications where LOKRING Technology can help reduce installation and maintenance risks while maintaining piping system integrity.

SPEAKER BIO

Chris Brickner is Managing Director of LOKRING Northeast, an authorized sales and service center for LOKRING Technology, LLC. He supports engineered piping and tubing applications throughout the Northeast United States, working with facility owners and engineering organizations on the evaluation and implementation of permanent metal-to-metal connections.

Friday, October 30 | 1:00 PM – 1:30 PM | Grand Ballroom

Inspection of Tanks and Piping in Semiconductor Facilities

Thomas Hay, PhD, PE — TechKnowServ Corp.

Semiconductor foundries rely on steel, stainless steel, and nonmetallic tanks and piping to safely contain a wide range of process chemicals, wastewater, and utility fluids. This presentation reviews inspection requirements and practical nondestructive examination (NDE) methods for assessing corrosion, material degradation, weld integrity, and remaining serviceability across these different materials and systems. Topics include visual examination, ultrasonic thickness testing and mapping, automated scanning techniques, leak testing, and inspection approaches applicable to plastic and FRP equipment. Emphasis will be placed on developing risk-appropriate inspection programs that identify degradation before loss of containment while supporting regulatory compliance and safe, reliable facility operation.

SPEAKER BIO

Thomas R. Hay, PhD, PE, is President of TechKnowServ Corporation and an ASNT Level III with extensive experience in nondestructive testing, engineering, and the inspection of storage tanks, pressure vessels, and piping systems. His work focuses on advanced inspection technologies and condition assessment for steel, stainless steel, FRP, and other industrial systems serving the chemical, energy, utility, and manufacturing industries.

Friday, October 30 | 1:30 PM – 2:00 PM | Grand Ballroom

Staying Ahead of the Curve: Navigating ISO Updates for EHS Management Systems and Auditing

Michele N. Shepard, PhD, MS, CIH — Colden Corporation

This presentation will highlight ISO standard updates issued in 2026 and proposed for 2027 on EHS management systems and auditing, including key changes in ISO 14001:2026 on environmental management systems and ISO 19011:2026 on management system auditing guidelines, as well as the proposed draft ISO 45001:2027 DIS on occupational health and safety management systems.

SPEAKER BIO

Michele N. Shepard, PhD, MS, CIH is a Certified Industrial Hygienist with over three decades of EHS experience in consulting, industry, and academic research. She is a Principal and Vice President of EHS Services at Colden Corporation.

TRACK 2: SAFETY / WELLNESS / SECURITY

Friday, October 30 | 9:00 AM – 10:00 AM | Pearless

Quantum Leaps, Controlled Risks: Worker Protection for III-V Semiconductors

Michele N. Shepard, PhD, MS, CIH — Colden Corporation

This presentation will provide an overview of common III-V semiconductors, applications in quantum computing, high-speed electronics, optoelectronics, and other technologies, and the potential occupational safety and health hazards, followed by a discussion of workplace control approaches.

SPEAKER BIO

Michele N. Shepard, PhD, MS, CIH is a Certified Industrial Hygienist with over three decades of EHS experience in consulting, industry, and academic research. She is a Principal and Vice President of EHS Services at Colden Corporation.

Joshua Humlhanz, CSP, is a Certified Safety Professional and Project Manager at Colden Corporation with 15 years of safety and industrial hygiene experience, including work at semiconductor fabs, R&D labs, utilities, and advanced technology manufacturing sites.

Friday, October 30 | 10:00 AM – 10:30 AM | Pearless

OSHA PSM (29 CFR 1910.119) in the Semiconductor Industry

Ashley Fernandez — AMF Compliance

OSHA's Process Safety Management (PSM) standard, 29 CFR 1910.119, plays a uniquely critical role in semiconductor manufacturing, where highly hazardous chemicals—such as pyrophoric gases, hydrides, strong oxidizers, corrosives, and flammables—are used at scale in wafer fabrication, deposition, etching, and cleaning processes. Although semiconductor facilities often operate within cleanrooms and advanced automation environments, the underlying risk profile aligns squarely with PSM's intent: preventing catastrophic releases of toxic, reactive, or flammable chemicals that could threaten workers, communities, and business continuity. This presentation explores how PSM requirements intersect with semiconductor operations, emphasizing the regulatory nuances, industry-specific hazards, and practical implementation challenges. Attendees will gain a clear, industry specific understanding of how to operationalize PSM in semiconductor fabs, reduce regulatory risk, and strengthen process safety culture amid accelerating technological change.

SPEAKER BIO

Ashley Fernandez has 20 years of experience in the practice and management of Safety, Industrial Hygiene and Risk Management. Ms. Fernandez is currently the President of AMF Compliance, an Environmental, Health and Safety Consulting Firm. With AMF Compliance she works in a variety of industries, including chemical and plastics manufacturing, semiconductor manufacturing, food and beverage, and private equity groups. Ms. Fernandez has successfully designed and implemented safety and health management systems that have ensured compliance, reduced occupational risks, lowered company incident rates, and improved overall safety culture for clients. Ms. Fernandez at AMF Compliance is dedicated to partnering with clients to offer proactive occupational safety and health services to support strategic growth and enhance customer value.

Friday, October 30 | 11:00 AM – 12:00 PM | Pearless

MOCVD Gas Cabinets: The Most Critical Square Meter in the Facility

Robert Knazik — Applied Materials

This presentation explores why MOCVD gas cabinets represent one of the highest risks and most critical areas within a semiconductor manufacturing facility. We will examine the unique hazards associated with toxic, pyrophoric, and corrosive gases, the engineering and safety systems that protect personnel and assets. The discussion will highlight how robust design, maintenance, and safety management practices help ensure reliable production.

Friday, October 30 | 1:00 PM – 1:30 PM | Pearless

Semiconductor Ramp Safety

Jeffrey Sexton — Edwards Vacuum

The goal is to establish a single, integrated Ramp Safety Plan that provides continuity from Construction through Operations/Production. The plan will address critical safety elements, including effective communication and coordination across all phases, assessment and management of high-risk activities, emergency response during the construction phase, and prioritization and sequencing of work when multiple high-risk activities occur within the same environment. Particular attention will be given to groups who may be more vulnerable during a ramp, including new employees, new contractors, newly promoted supervisors, and experienced employees working under new or unfamiliar conditions. Ultimately, the success of a production ramp should not be measured solely by output or schedule performance — a successful ramp is one where production goals are achieved while ensuring that every worker goes home safely at the end of each day.

SPEAKER BIO

Jeffrey Sexton is Senior SHE Manager – Americas Region for Edwards Vacuum, North American Customer Center. He has nearly 26 years of EHS experience in fields related to Semiconductor, General Vacuum, and Consumer Product Safety. He currently manages EHS activities for the Edwards Vacuum North American Customer Center, including Sales, Customer Care, Field Service (Onsite and Remote), the North American Distribution Center, and several repair centers across the US. Prior to Edwards Vacuum, he spent 17 years as a manager and Regional QHSE Manager with a major Consumer Product Testing Laboratory in Buffalo, NY.

Friday, October 30 | 1:30 PM – 2:00 PM | Pearless

Pyrophoric Updates

Matt Wyman — KFPI

Over the past 5+ years KFPI has been involved in many R&D projects testing fire and gas safety systems for effectiveness within semiconductor and hi-tech applications. Projects have included fire detection and fire suppression systems testing effectiveness of energetic chemical fires such as pyrophoric liquid metal organics like TMA (trimethyl aluminum), as well as fire and gas detection testing effectiveness of silane leaks within gas cabinets/VMB enclosures. The results of these projects have identified many challenges and limitations in the effectiveness of traditional protection schemes using previous fire codes and standards. As a result of this test data and new technology developments, many of the associated fire safety codes and standards have now been changed. This presentation will highlight the findings of the past pyrophoric testing projects, new pyrophoric fire safety technology advancements (such as LCAS), and various changes to fire safety codes and standards between 2022–2025.

SPEAKER BIO

Matt Wyman is the CEO of KFPI LLC, which specializes in high-tech fire and gas safety solutions with offices throughout the USA, Asia, and Europe. Matt began his career as a Semiconductor Loss Prevention Specialist with FM Global and has spent the past 20+ years designing, consulting, and providing fire safety solutions for semiconductor equipment. Matt currently serves as Leader of the SEMI Standards Committee for Fire Protection, is an active participant in the SEMI Energetics Task Force Committee, is an active member of the NFPA 318 Committee, has served on the SESH Board of Directors, and has presented on various fire safety topics at the SESH Annual Symposium and Local Chapter events many times in the past.

BOOTCAMP 101 REVISIT

Friday, October 30 | 2:30 PM – 3:15 PM | Grand Ballroom

Introduction to EHS Regulatory Requirements & Industry Best Practices – Bootcamp 101 Revisit

John Marci — GlobalFoundries