SESHA 2026
FALL MINI-CONFERENCE

November 12-13, 2026
Austin, TX
University of Texas at Austin



2026 PROGRAM GUIDE

Schedule, Sessions & Speakers

DATES
Thursday – Friday
November 12-13, 2026

VENUE
Commons Event Center
The University of Texas at Austin
Austin, Texas

SESSIONS
Balcones Room
Registration & breaks in the Atrium

Schedule at a Glance

Schedule subject to change. All sessions in Balcones; registration, breaks and lunch in the Atrium.

Thursday November 12

7:30 AM – 5:00 PM	REGISTRATION	Atrium
7:45 AM – 8:15 AM	BREAKFAST	Atrium
8:15 AM – 8:30 AM	**Welcome and Introduction** Brent Nelson	Balcones
8:30 AM – 10:15 AM	**Semiconductor Safety & Health Hazards Overview** BOOTCAMP 101 Steven R. Trammell · Padre Consulting Services LLC	Balcones
10:15 AM – 10:45 AM	BREAK	Atrium
10:45 AM – 12:00 PM	**The Chemistry of Semiconductor Precursors** BOOTCAMP 101 Joe Van Gompel · Applied Materials	Balcones
12:00 PM – 1:00 PM	LUNCH — SPONSORED BY BENCHMARK GENSUITE	Atrium
1:00 PM – 2:15 PM	**Fire Safety, Detection, and Suppression** BOOTCAMP 101 Dustin Trandai · KFPI	Balcones
2:15 PM – 2:45 PM	BREAK	Atrium
2:45 PM – 3:45 PM	**Environmental Considerations** BOOTCAMP 101 Lindsey Renfro · BSI	Balcones
3:45 PM – 4:30 PM	**Emergency Response** BOOTCAMP 101 Michael Rodriguez · Applied Materials	Balcones
4:30 PM – 5:00 PM	**Q&A** BOOTCAMP 101	Balcones

Friday November 13

7:30 AM – 3:00 PM	REGISTRATION	Atrium
7:30 AM – 8:15 AM	BREAKFAST	Atrium
8:15 AM – 9:15 AM	**PFAS in the Semiconductor Industry and An Update on the Semiconductor PFAS Consortium** Laurie Beu · Laurie S. Beu Consulting	Balcones
9:15 AM – 10:00 AM	**Powering Performance – Modernizing PSM/RMP for True Operational Resilience** Adrienne Young · BSI	Balcones
10:00 AM – 10:30 AM	BREAK	Atrium
10:30 AM – 11:15 AM	**Medium Voltage Electrical Switchgear Shock Injury Lessons Learned** Suzanne Kilpatrick · The University of Texas at Austin	Balcones
11:15 AM – 12:00 PM	**Permitting the Texas Way – Navigating Hot Topics and Red Flags for Texas Projects** Bryan Osborne · WSP USA	Balcones
12:00 PM – 1:00 PM	LUNCH	Atrium
1:00 PM – 1:45 PM	**Semiconductor Ramp Safety** Michael P. Broussard · Edwards	Balcones
1:45 PM – 2:30 PM	**The Future of Safety Metrics** Chris Barto · ISN	Balcones
2:30 PM – 2:45 PM	BREAK	Atrium
2:45 PM – 3:30 PM	**Emerging Robotics in Semiconductor Fabs: Safety Challenges and EHS Considerations** Daniel Chodos · BSI	Balcones
3:30 PM – 3:40 PM	**Closing Remarks** Brent Nelson	Balcones

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Move beyond reactive EHS and safety management. Harness predictive intelligence to protect your people, optimize performance, and strengthen operational resilience.



As operational complexity increases, EHS and safety leaders need more than dashboards — they need intelligent systems that anticipate risk and drive action.

Benchmark Gensuite integrates Artificial Intelligence across its unified EHS & Sustainability platform to transform how organizations manage operational risk.

Our AI-enabled capabilities help organizations:

- **Predict equipment and process risks before failures occur**
- **Detect anomalies and surface hidden safety insights**
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- **Analyze incident data to identify trends and prevent recurrence**
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- **Improve decision-making with real-time operational intelligence**

From predictive analytics to automated workflows, Benchmark Gensuite empowers teams to move from reactive response to proactive risk prevention — improving safety outcomes while driving operational excellence.

Built on a single-version, best practice-based platform, our solutions unify EHS, sustainability, and operational risk management into one seamless experience.

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Designed to support safety, sustainability, compliance, and operational performance in one integrated system.

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Anticipate issues before they disrupt operations.

Real-Time Monitoring & Alerts
Turn complex data into actionable safety insights.

Unified EHS & Sustainability Platform
One system. Connected workflows. Enterprise-wide visibility.

See AI in Action at SESHA

Request a demo to explore AI-powered operational safety solutions.

Exhibitors

Benchmark Gensuite

5181 Natorp Blvd Suite 610
Mason, OH 45040
513-774-1000 · www.benchmarkgensuite.com

Benchmark Gensuite delivers AI-driven, cloud-based EHS, Sustainability, Quality, and Risk solutions for global enterprises. With a single-version platform, generative AI tools, and decades of expertise, it helps millions manage risk, ensure compliance, and enhance performance, backed by top-tier customer service and continuous innovation worldwide to drive operational excellence and impact.

CS Clean Solutions

26 Commerce Drive
Danbury, CT 06810
203-797-8155 · www.cscleansolutions-usa.com

CS CLEAN SOLUTIONS® is the global leader in dry-bed abatement systems for hazardous gas streams using passive, chemisorption-based technology to treat gas streams to outlet levels below TLV. Using proprietary granulate formulations, the systems operate at ambient temperature to abate toxic, corrosive and pyrophoric chemistries. Fuel gas, high voltage electrical power, water and acid waste neutralization are not required, providing extremely low operating cost with minimal maintenance and downtime compared to other abatement technologies. CS CLEAN also offers a plasma abatement systems for Fluorinated Greenhouse Gases, as well as for GaN deposition abatement of H2 and NH3.

DOD Technologies, Inc.

675 Industrial Drive
Cary, IL 60013-1944
815-788-5200 · www.DODtec.com

DOD Technologies is the leader in low-level semiconductor gas detection, providing technologically advanced products, repair and preventative maintenance services. We offer a range of fixed and portable solutions – as well as flexible service options – to meet your facilities' life safety needs. Visit us today at DODtec.com.

Draeger, Inc.

7256 S. Sam Houston Pkwy W., Suite 100
Houston, TX 77085
800-437-2437 · www.draeger.com

Edwards

6220 NE Century Blvd
Hillsboro, OR 97125
www.edwardsvacuum.com

Edwards is a global leader of vacuum and abatement. We are proud to lead the industry, pushing the boundaries of science to deliver innovative products which are intrinsic to everyday life, working in partnership with our customers and continually setting new standards.

GreenSoft Technology, Inc.

155 S. El Molino Ave., Suite 100
Pasadena, CA 91101
323-254-5961 · www.greensofttech.com

GreenSoft Technology delivers material intelligence solutions for semiconductor manufacturers, combining expert data services and GreenData Manager® software to manage

REACH, RoHS, PFAS, Full Material Declarations (FMDs), Proposition 65, and other global product compliance requirements.

Hallam-ICS

38 Eastwood Drive, Suite 200
South Burlington, VT 05403
518-530-7069 · www.hallam-ics.com

Hallam-ICS delivers end-to-end Toxic Gas Monitoring System solutions for semiconductor facilities, from engineering and controls integration to installation support, commissioning, gas challenging, service, and maintenance. Our team helps clients design, automate, and sustain reliable, code-compliant TGMS programs, supporting projects from small labs to large-scale fabs across North America with confidence.

KFPI

10351 Olympic Dr.
Dallas, TX 75220
469-329-5628 · www.kfpi.com

KFPI is a leading semiconductor company specializing in fire and gas safety solutions. We provide comprehensive services, including consulting, design, product installation, integration, certification, training, and support. KFPI prioritizes our system designs to maximize reliability and longevity and we always guarantee compliance with SEMI S2, FM, and NFPA standards. Also, our experts can identify which gas detection technology is best to protect personnel from hazardous chemical leaks. Notably, KFPI developed LCAS, the first automatic fire safety prevention system for BCDS with pyrophoric chemistries. With a global presence, KFPI operates in the USA, Taiwan, Japan, China, Korea, Singapore, and Europe.

RKI Instruments, Inc.

33248 Central Ave.
Union City, CA 94587
510-441-5656 · www.rkiinstruments.com

RKI Instruments is an innovative gas detection company offering portable and fixed systems gas detection instrumentation. Product lines range from the smallest portable monitors to versatile fixed multi point systems that include wired and wireless fixed systems solutions and turn- key services. Our products are rugged and reliable, RKI is gas detection for life.

Weaver

4400 Post Oak Parkway
Houston, TX 77027
800-332-7952 · www.weaver.com

Weaver is a national accounting and advisory firm providing assurance, tax and advisory services to businesses operating in complex regulatory and risk environments.

Weston Solutions

1400 Weston Way
West Chester, PA 19380
610-701-3000 · www.westonsolutions.com

Weston Solutions, Inc. is a 100% employee-owned environmental and infrastructure services firm helping private- and public-sector clients solve complex environmental, engineering, compliance, and operational challenges. Weston provides expertise in environmental permitting and compliance, engineering and construction, site investigation and remediation, EHS and industrial hygiene, emergency preparedness and response, sustainability, and digital solutions. For more than 65 years, Weston has been committed to delivering practical, innovative solutions that protect people, communities, and the environment.

Thursday November 12

OPENING

THURSDAY, NOVEMBER 12 • 8:15 AM – 8:30 AM • BALCONES

Welcome and Introduction

Brent Nelson

ABOUT THE SPEAKER

Brent Nelson is a retired research operations and engineering leader from the National Laboratory of the Rockies (formerly the National Renewable Energy Laboratory) and currently serves on the SESHA Board of Directors. During his career, he worked at the intersection of research, engineering, facilities, and environmental health and safety, with extensive experience supporting laboratories, cleanrooms, photovoltaic research, and complex research equipment. His responsibilities included equipment installation and modification, work planning and control, hazard reviews, chemical and gas safety, glovebox programs, facility interfaces, and safe research operations. Brent has been particularly interested in applying engineering controls, effective work processes, and lessons learned to reduce risk in research and high-technology environments.

PROFESSIONAL DEVELOPMENT COURSE

THURSDAY, NOVEMBER 12 • 8:30 AM – 5:00 PM • BALCONES

BootCamp 101

Presented by SESHA Subject Matter Experts — Padre Consulting Services LLC, Applied Materials, KFPI, BSI

This professional development course is designed for environmental, health, and safety (EHS) professionals and managers in the semiconductor industry who are either new to the field (1–5 years) or seeking a comprehensive refresher. Participants will gain practical insights from seasoned subject matter experts with extensive experience addressing EHS challenges unique to semiconductor operations. Presentations will focus on timely subject matter relevant to today's rapidly evolving semiconductor landscape and are tailored to support early-career professionals. Ample time for discussion and Q&A will enable participants to engage directly with experts and strengthen their understanding of key EHS practices within the industry.

Topics include:

- Semiconductor Safety & Health Hazards Overview
- The Chemistry of Semiconductor Precursors
- Fire Safety, Detection, and Suppression
- Environmental Considerations
- Emergency Response

BOOTCAMP 101 SCHEDULE

TIME	SESSION	PRESENTER
8:30 AM – 10:15 AM	Semiconductor Safety & Health Hazards Overview	Steven R. Trammell · Padre Consulting Services LLC
10:15 AM – 10:45 AM	BREAK	
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TIME	SESSION	PRESENTER
1:00 PM – 2:15 PM	Fire Safety, Detection, and Suppression	Dustin Trandai · KFPI
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2:45 PM – 3:45 PM	Environmental Considerations	Lindsey Renfro · BSI
3:45 PM – 4:30 PM	Emergency Response	Michael Rodriguez · Applied Materials
4:30 PM – 5:00 PM	Q&A	

BOOTCAMP 101 PRESENTERS

Steven R. Trammell, PE, CSP, CCPSC, CDHA, CHMM — Padre Consulting Services LLC

SEMICONDUCTOR SAFETY & HEALTH HAZARDS OVERVIEW

Steve has more than 35 years of experience in project management, facility design and equipment safety reviews, system safety, hazard analysis, and risk management across the semiconductor and high-technology, aerospace, pharmaceutical, explosives, and petrochemical industries. He has led and facilitated Dust Hazard Analyses (DHAs) for combustible dust and particulate-solids processes across multiple high-hazard industries in accordance with NFPA standards and CCPS guidance. Steve serves on several technical standards and code committees and is a two-time Past President of the Semiconductor Environmental Safety and Health Association (SESHA), where he was named a Fellow in 2024. He is also a co-author of the Risk Assessment Methods chapter of the forthcoming Semiconductor Manufacturing Risk Handbook.

Joe Van Gompel — Applied Materials

THE CHEMISTRY OF SEMICONDUCTOR PRECURSORS

Dr. Joe Van Gompel has been with Applied Materials since 2015 as Senior Applications Specialist for the Subfab Center of Excellence Group.

- Ph.D. Physical Organic Chemistry U Illinois
- Mattson Instruments FTIR Product Specialist 5 years
- MIDAC FTIR Applications Specialist 2 years
- Edwards Abatement Product Specialist 14 years
- Applied Materials Process Engineer / Testing 10 years
- Specialist of emissions testing from semiconductor processes, 30 years
- Expert FTIR user for gas analysis
- SESHA Board Member 2025

Dustin Trandai — KFPI

FIRE SAFETY, DETECTION, AND SUPPRESSION

Dustin Trandai is a Regional Sales Manager at KFPI LLC, a company specializing in fire and gas safety solutions for the global semiconductor industry, with offices throughout the USA, Asia, and Europe. For the past three years, Dustin has worked closely with semiconductor manufacturers and equipment makers to identify their safety needs and connect them with KFPI's fire protection and gas detection solutions. Dustin is committed to building lasting customer relationships and helping the semiconductor industry operate safely and efficiently.

Lindsey Renfro — BSI

ENVIRONMENTAL CONSIDERATIONS

Lindsey Renfro brings nearly three decades of environmental expertise to her role as Principal Consultant at BSI. A Chemical Engineering graduate of Texas A&M University-Kingsville, Lindsey began her career with internships at the Texas Department of Transportation before spending three years with the Texas Commission on Environmental Quality (TCEQ). Those early experiences provided a strong regulatory foundation that she has built upon since entering environmental consulting in 2004.

Over the course of her consulting career, Lindsey has guided clients through some of their most complex environmental challenges, serving as both project engineer and project manager on a wide range of initiatives. Her expertise spans air permitting and compliance strategy, emissions inventory development, potential-to-emit evaluations, air dispersion modeling, compliance auditing, permit optimization, and the development of practical compliance tools that help facilities operate efficiently while meeting regulatory obligations.

Lindsey's experience extends across a diverse array of industries, including semiconductor manufacturing, pharmaceutical production, chemical terminals, midstream oil and gas operations, mining, aggregates, concrete, hot mix asphalt, surface coating, cultured marble, fiberglass reinforced plastics, and electric power generation. Her work has supported facilities across the United States, with project experience in Arizona, California, Kentucky, Louisiana, Nevada, New Mexico, North Carolina, Ohio, Oregon, Pennsylvania, Texas, Utah, Washington, and beyond.

Michael Rodriguez — Applied Materials

EMERGENCY RESPONSE

Michael Rodriguez is an emergency preparedness and response professional with experience in 911 emergency response, emergency management, and corporate Emergency Response Team (ERT) programs. His work focuses on developing response capabilities, training volunteer responders, improving emergency communications, and helping organizations create a culture of emergency preparedness.

As Emergency Coordinator and Program Manager, he currently leads a large-scale ERT program, supporting emergency planning, incident response, accountability, and employee safety initiatives. He is passionate about sharing real-world lessons learned, practical challenges, and proven strategies that help organizations build resilient and effective emergency response programs.

Friday November 13

GENERAL SESSIONS

FRIDAY, NOVEMBER 13 • 8:15 AM – 9:15 AM • BALCONES

PFAS in the Semiconductor Industry and An Update on the Semiconductor PFAS Consortium

Laurie Beu — Laurie S. Beu Consulting

In the early 2000s, researchers and regulators began expressing concerns about the persistence, bioaccumulation, and toxicity of long-chain perfluoroalkyl substances such as Perfluorooctane sulfonate (PFOS) and Perfluorooctanoic acid (PFOA). Over the last quarter century, the number of per- and polyfluoroalkyl substances (PFAS) of concern has increased. In 2023, the U.S. Consumer Products Safety Commission identified 16,229 distinct PFAS compounds. The expanding definition of PFAS and the proprietary nature of semiconductor manufacturing make it challenging to identify specific PFAS and their uses.

The Semiconductor PFAS Consortium is an international group of semiconductor industry stakeholders formed to collect the technical data needed to formulate an industry approach to PFAS. Consortium membership comprises semiconductor manufacturers and members of the supply chain, including

chemical, material and equipment suppliers. The consortium includes technical working groups, each focused on:

- Identifying PFAS uses, why they are used, and the viability of alternatives.
- Applying the pollution prevention hierarchy to (where possible) reduce PFAS consumption or eliminate use, identify PFAS alternatives, and minimize emissions.
- Providing tools and methods needed to support industry commitments to track and reduce PFAS.
- Identifying research needs, then developing and implementing plans to address them appropriately.
- Developing socioeconomic impact analysis data.

This data will better inform public policy and legislation regarding the semiconductor industry's use of PFAS-containing materials and will focus research and development efforts. The Semiconductor PFAS Consortium is organized under the auspices of the Semiconductor Industry Association (SIA). For more information, see www.semiconductors.org/pfas.

As of October 2026, the Consortium has published 32 technical papers (available to download at www.semiconductors.org/pfas) covering topics such as PFAS uses, functionality, availability of alternatives, and mapping of release pathways. This work has been posted for public download, greatly expanding publicly available information on PFAS and its role in semiconductor manufacturing.

Today, you will hear an overview of the Consortium's work and findings.

ABOUT THE SPEAKER

Laurie Beu is a semiconductor industry consultant with over 40 years of experience in the environmental field. She has led industry initiatives to address process greenhouse gases and chemical concerns and currently directs the Semiconductor Industry Association's (SIA) per- and polyfluoroalkyl substances (PFAS) Consortium and Semiconductor Onium Photoacid Generator (PAG) Consortium.

Laurie began her professional career in environmental compliance and later managed initiatives at Motorola's research and development laboratory to proactively address environmental concerns during new process development.

Laurie served as a Lead Author for the United Nations Intergovernmental Panel on Climate Change (IPCC) 2019 Refinement of the Electronics chapter and the IPCC 2006 Guideline for National Greenhouse Gas Inventories. She shared in the 2007 Nobel Peace Prize as a member of the IPCC.

She is a Registered Professional Engineer in Texas, a SESHA Fellow, and a recipient of SESHA's Lifetime Achievement Award.

FRIDAY, NOVEMBER 13 • 9:15 AM – 10:00 AM • BALCONES

Powering Performance – Modernizing PSM/RMP for True Operational Resilience

Adrienne Young — BSI

Even though PSM has been around for over 30 years and RMP for almost as long, we continue to experience catastrophic losses related to the storage, handling, and processing of highly hazardous chemicals and regulated substances. One underlying root cause for this may be due to how we define our performance objectives regarding these two regulations. Are we settling for compliance or are we striving for operational resilience?

This session will define the concept of operational resilience as it relates to process safety and risk management. It will also provide insights on strategies that you can adopt to leverage your greatest assets (people, processes, and practices) to go beyond compliance with regulations and achieve operational resilience. These concepts have been used by large global companies to successfully manage process

safety risks at their facilities, and, with some tweaking, they can be used by your organization as well. Your ability to anticipate and respond to operational upsets will make the difference between surviving and thriving in your industry.

ABOUT THE SPEAKER

Adrienne Young (BSChE) is a Senior Consultant at BSI America Professional Services with over 25 years of practical environmental, health, and safety (EHS) experience in the specialty chemicals industry, including site-level and director-level leadership roles. She partners with clients to design, implement, and continuously improve their EHS processes to make it easier for them to comply with applicable EHS laws/regulations, conform to international/industry standards, and maintain operational resilience. Ms. Young is a qualified lead auditor for ISO 9001, ISO 14001, ISO 45001, and RC14001/RCMS; and has experience with OSHA VPP.

FRIDAY, NOVEMBER 13 • 10:30 AM – 11:15 AM • BALCONES

Medium Voltage Electrical Switchgear Shock Injury Lessons Learned

Suzanne Kilpatrick — The University of Texas at Austin

This presentation examines a serious electrical shock incident involving medium voltage switchgear and highlights the key lessons learned from the subsequent investigation. Attendees will gain insight into the sequence of events, contributing factors, and challenges associated with performing work on or near energized electrical equipment. The session will explore the technical, procedural, and organizational factors that influenced the event, including hazard identification, emergency response, energy isolation practices, communication, work planning, and oversight.

ABOUT THE SPEAKER

Suzanne Kilpatrick, MS, CIH, CSP, is the Senior Associate Director for Environmental Health & Safety at The University of Texas at Austin, where she provides strategic leadership for a diverse portfolio of safety programs supporting research, academic, healthcare, and campus operations. Her areas of responsibility include occupational safety, construction and contractor safety, asbestos and indoor environmental quality programs, and specialized safety support for complex research and semiconductor facilities. Suzanne has extensive experience in incident investigation, risk assessment, regulatory compliance, safety program development, and using lessons learned from incidents to drive continuous improvement. She works closely with campus stakeholders to address complex safety challenges and implement practical solutions that improve worker protection and organizational resilience.

FRIDAY, NOVEMBER 13 • 11:15 AM – 12:00 PM • BALCONES

Permitting the Texas Way – Navigating Hot Topics and Red Flags for Texas Projects

Bryan Osborne — WSP USA

Air permitting projects in Texas are just a little bit different. Discussion will cover what site construction activities can be commenced prior to receiving an air permit, political involvement, including economic development projects and moratoriums. Session will also cover permit review timelines and considerations, especially for projects under the TCEQ's expedited project review program, and cover dispersion modeling hot topics like PM2.5.

ABOUT THE SPEAKER

Bryan Osborne is a Technical Director with WSP USA in Austin, TX with over 20 years of air permitting experience. As an air quality consultant, he has been involved in numerous projects for industrial clients in the semiconductor, upstream and midstream energy, and petrochemical and terminals sectors. Mr. Osborne routinely helps to develop air permitting strategies, prepares permit applications, develops compliance strategies, and performs compliance audits and due diligence assessments. Mr. Osborne earned a B.S. in Chemistry from Texas A&M University and a M.A. in Energy and Earth Resources from The University of Texas at Austin.

FRIDAY, NOVEMBER 13 • 1:00 PM – 1:45 PM • BALCONES

Semiconductor Ramp Safety

Michael P. Broussard — Edwards

The goal – 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
- Prioritization and sequencing of work with multiple high-risk activities in the same space

Attention will focus on higher-risk populations during a production ramp, including new employees, contractors, recently promoted supervisors, and personnel operating in unfamiliar conditions.

Ultimately, ramp success is not measured solely by production output or schedule attainment. It is defined by achieving business objectives while effectively managing risk, strengthening safety performance, and ensuring every employee returns home safely each day.

ABOUT THE SPEAKER

Michael P. Broussard, North America SHE Manager at Edwards Vacuum, brings more than 30 years of leadership experience in the semiconductor and aerospace industries. He currently leads EHS strategy, ISO management systems, operational risk management, and customer-facing safety programs across high-consequence environments. Through visible leadership and a relentless focus on risk reduction, he drives high-performing teams, builds strong safety cultures, and enables the safe, reliable execution of critical operations.

FRIDAY, NOVEMBER 13 • 1:45 PM – 2:30 PM • BALCONES

The Future of Safety Metrics

Chris Barto — ISN

Traditional safety metrics like TRIR are good at tracking past incidents, but they do little to predict or prevent serious injuries and fatalities (SIFs). This session looks at how safety measurement is moving from counting injuries to understanding exposure, especially across contractor workforces. It introduces Energy-Based Safety, a framework built on the idea that injuries come from contact with uncontrolled energy and shows how tools like the Energy Wheel and direct controls help workers spot and manage high-risk hazards. It also covers how AI, through ISN's Hazard Assistant, can quickly identify energy-based hazards on the jobsite and recommend controls. Attendees will leave with a practical view of a balanced safety measurement system that combines leading indicators, field data, and culture.

ABOUT THE SPEAKER

Chris Barto, HSE Group Supervisor at ISN, graduated from Juniata College with a Bachelor of Science in Environmental Studies and went on to earn a Master of Science in Occupational Safety and Health Science from Indiana University of Pennsylvania. He started his career in chemical manufacturing and steel & metals manufacturing, where he got hands-on experience managing safety in high-hazard industrial settings. Chris has been a Certified Safety Professional (CSP) since 2023 and is currently a Supervisor on ISN's Health and Safety team.

FRIDAY, NOVEMBER 13 • 2:45 PM – 3:30 PM • BALCONES

Emerging Robotics in Semiconductor Fabs: Safety Challenges and EHS Considerations

Daniel Chodos — BSI

As robotics technology continues to advance, its role within semiconductor manufacturing is expanding beyond traditional enclosed tool applications. Autonomous mobile robots (AMRs) are already being deployed in fabs, and emerging technologies such as humanoid and quadruped robots may soon enter shared work environments. This session will examine the potential safety implications of the next generation of robotics, including new hazards, risk assessment considerations, and evolving EHS responsibilities. Attendees will gain practical insights into how to prepare their organizations for the safe integration of these technologies.

ABOUT THE SPEAKER

Daniel Chodos is a CSP and Senior EHS Consultant at BSI America Professional Services. He has been working as an EHS consultant for over 20 years, providing EHS consulting support to a wide range of private and public organizations. Over his EHS consulting career, his work experience has been focused in conducting risk assessments and job hazard analyses, hazardous materials transportation compliance, training development and delivery, facility safety inspections, and development and implementation of EHS compliance programs. Since 2017, he has provided robotic safety support to clients in R&D, manufacturing, semiconductor, and warehousing/fulfillment center environments.

CLOSING

FRIDAY, NOVEMBER 13 • 3:30 PM – 3:40 PM • BALCONES

Closing Remarks

Brent Nelson