

2016 Northeast Industrial Hygiene Conference and Exhibition (NEIHce)

Friday – December 2, 2016

Westin Forrestal Village,
200 Village Blvd., Princeton NJ

Conference Agenda (subject to change)

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| 7:15 AM –7:50 AM | Registration |
| 7:50 AM –8:00 AM | Opening Remarks
Bernard Fontaine, Jr., CIH, CSP, FAIHA - President, NJAIHA |
| 8:00 AM –8:50 AM | <i>Responding to Emerging Hazards – Research at NIOSH</i>
Frank Hearl, PE, Chief of Staff, NIOSH – Washington, DC |
| 8:55 AM –9:50 AM | <i>Risk Assessment and Control of Antibody-Drug Conjugates</i>
Robert Sussman, Ph.D., DABT and Charlyn Reihman, MPH, CIH -
Principals, SafeBridge Consultants, Inc. |
| 9:50 AM – 10:20 AM | Coffee Break/ Vendor Exhibits (30 minutes) |
| 10:20 AM – 11:10 AM | <i>Current Affairs of AIHA National and Youth@Work Talking Safety</i>
Catherine Hovde, CIH, CSP – Caterpillar, Inc. |
| 11:10 AM – 12:00 PM | <i>Federal OSHA Policy Changes and Updates in Washington</i>
Edwin G. Foulke, Jr., Esq. – Partner, Fisher & Phillips LLP, Former
Assist. Sec. of DOL – OSHA and Chair, OSH Review Commission |
| 12:00 PM – 12:30 PM | Coffee Break/Vendor Exhibits (30 minutes) |
| 12:30 PM – 13:15 PM | Lunch (45 minutes) |
| 1:15 PM – 2:05 PM | <i>What's New with Nano? Health and Safety Management for Engineered
Nanomaterials in the Workplace</i>
Michele Shepard, Ph.D., CIH - Vice President - Colden Corporation |
| 2:05 PM – 2:55 PM | <i>Reducing Generation of Respirable Crystalline Silica during Hydraulic
Fracturing Activities When Using Treated Proppant Sand</i>
Matthew Navea, Corporate Director EHS, Preferred Sands –
Radnor, PA |
| 2:55 PM – 3:25 PM | Coffee Break/Vendor Exhibits (30 minutes) |
| 3:25 PM – 4:15 PM | <i>Updates to the Toxic Substance Control Act</i>
Neil Feldscher, CIH, CSP, FAIHA, Esq. - Chief of EHS for the NYC
Department of Environmental Protection. (NYCDEP) |
| 4:15 PM – 4:45 PM | Closing Remarks/Door Prizes |



Responding to Emerging Hazards – Research at NIOSH

**Frank Hearl, PE
Chief of Staff, NIOSH – Washington, DC**

Workers are a common denominator at any disaster or novel emergency event. Protecting the health and safety of these workers by preventing diseases, injuries, and fatalities is a NIOSH Emergency Preparedness and Response Program priority. This can be accomplished by ensuring that responder safety and health is addressed systemically during all phases (pre-, during-, and post-deployment) to make certain only qualified, trained, and properly equipped personnel are deployed. In addition, the NIOSH Emergency Preparedness and Response Program Portfolio is part of a research portfolio that sets the goals and develops plans for worker safety and health research advancement and collaborations.

Biography: Frank Hearl received his B.S. degree in Chemical Engineering from Purdue University and his S.M. degree from the Massachusetts Institute of Technology. He is a licensed Professional Engineer in Maryland and West Virginia.

Mr. Hearl joined NIOSH in 1974, and is presently the NIOSH Chief of Staff. Previously he led the National Occupational Research Agenda (NORA) team on mixed exposures and cumulative risk; Construction Sector research program, and he was the Program Manager for the Institute's economics program.

His past experience includes conducting field industrial hygiene and epidemiology related to coal workers pneumoconiosis, silicosis, lung cancer, and various lung disease-producing agents. He was the NIOSH lead on an international project with the Tongji Medical University in China and the U.S. National Cancer Institute to study silica, silicosis and lung cancer which lead to numerous publications. He has received 17 U.S. Public Health Service Awards including the Meritorious Service Medal; and he has been twice awarded the Alice Hamilton Award for excellence in Occupational Safety and Health.

He recently served as President of the Yuma Pacific-Southwest Section of the American Industrial Hygiene Association, and was the inaugural Chair for the SRA's Occupational Health and Safety Specialty Group.

Risk Assessment and Control of Antibody-Drug Conjugates



Robert Sussman, Ph.D., DABT
Managing Principal, Eastern Operations
SafeBridge Consultants, Inc.



Charlyn Reihman, MPH, CIH
Principal, Occupational Health
SafeBridge Consultants, Inc.

Antibody Drug Conjugates (ADC) represent a promising technology platform for the treatment of various cancers and other diseases. At the same time they create challenges in the areas of toxicological evaluation and hazard assessment, as well as the development of proper handling procedures and controls. This presentation will provide background information on ADCs, methodology for evaluating their occupational hazards, and examples of engineering controls, work practices, and practical handling solutions.

Biographies: Dr. Sussman is Managing Principal, Eastern Operations for SafeBridge Consultants, Inc. He has over 25 years' experience in the pharmaceutical industry where he worked in various capacities in corporate occupational toxicology groups culminating as a Director of Occupational Toxicology in Pfizer's Corporate Environmental Health and Safety Department. His group evaluated the toxicity of pharmaceutical products, their intermediates and other chemicals handled in research facilities and providing hazard communication information to all research facilities worldwide.

He is a Diplomate of the American Board of Toxicology (DABT). He is also a past member and Chair of the AIHA's Workplace Environmental Exposure Level (WEEL[®]) Committee, is a founding member of the Occupational Toxicology Roundtable and serves on that organization's steering committee. He has had an adjunct appointment at the NYU Medical Center where he gives several lectures each year on regulatory toxicology, risk assessment, and industrial hygiene aspects of the pharmaceutical industry.

Charlyn Reihman, MPH, CIH is a Principal Occupational Health Consultant for SafeBridge Consultants, Inc., which is based in Exton, PA. She has more than 30 years of safety and health experience in pharmaceutical/vaccine manufacturing and research and development, including 28 years at Merck. Her experience includes pharmaceutical industrial hygiene and exposure control, biosafety, program development, training, occupational health and safety management system implementation, remediation, and conducting EHS compliance and pharmaceutical supply chain audits. She also has experience providing safety and industrial hygiene support to other industries include the lead industry, medical device manufacturing, construction, chemical manufacturing, and academic research and development. Charlyn is a Certified Industrial Hygienist (CIH) and has extensive experience providing best practice recommendations for improving performance and minimizing risk.



Current Affairs of AIHA National and NJ Youth@Work Talking Safety Program

**Catherine Hovde, CIH, CSP
Corporate Health and Safety Manager
Caterpillar, Inc.
AIHA Board of Directors**

AIHA, in partnership with NIOSH, is working to address Safe Youth at Work because we can't have teenagers die at work. Her presentation will describe NIOSH-AIHA's recent efforts on Safe Youth at Work including prototype curricula for school districts known as Youth @Work Talking Safety and an outreach module known as Safety Matters. A key component for this initiative's ultimate success is AIHA members talking about Safe Youth at Work and becoming involved in the conversation. Her presentation will discuss the three ways that AIHA members can become involved:

1. Find opportunities to deliver the Safety Matters module to young people.
2. Get the full Talking Safety curriculum adopted by the local school system.
3. Ask your elected representatives to require awareness-level workplace health and safety training for all young people.

NJAIHA has begun an outreach campaign regarding the NJ Youth@Work Talking Safety program. Its mission is to collaborate with stakeholders to develop awareness and provide the tools to (1) develop policy to require all school districts to present a 45-minute curriculum for students who will be seeking employment for the first time and (2) upload the free materials needed for faculty to conduct the group training by the end of each school year.

Biography: Ms. Hovde received a Bachelor of Arts degree in Biology from St. Olaf College and a Master of Science degree in Industrial Hygiene from University of Minnesota School of Public Health. During her graduate program, she received funding from the Pilot Projects Research Training Program of the Midwest Center for Occupational Safety and Health (MCOSH) at the University of Minnesota's School of Public Health to conduct research on welding fume generation. The research was subsequently published in the Journal of Occupational and Environmental Hygiene (JOEH).

Ms. Hovde has served as an IH and EHS professional in facilities and regionally for 3M and Caterpillar. In those positions, she worked with employees, engineers and other team members to understand operations and evaluate potential exposures. She worked collaboratively to develop and implement practical controls. Ms. Hovde also completed an international assignment based in Germany as a divisional EHS manager for a global division of Caterpillar. In this role, she worked to integrate several newly acquired companies with all legal requirements and Caterpillar standards. In addition, she oversaw her German EHS team through ISO 14001 and OHSAS 18001 certifications. Ms. Hovde is the Enterprise Industrial Hygiene Manager for Caterpillar. This entails reinvigorating the industrial hygiene strategy and developing the technical and leadership competencies throughout the enterprise.

She has held leadership positions in her local AIHA section and the Students and Early Career Professionals Committee, and is a member of the Permanent Conference Committee and International Affairs Committee. Ms. Hovde received the 2014 John J. Bloomfield Award, which is presented to a young industrial hygienist who pursues the problem of occupational health hazards primarily by doing fieldwork, and who demonstrates significant contribution to the profession.



Federal OSHA Policy Changes and Updates in Washington

**Edwin G. Foulke, Jr., Esq.
Partner, Fisher & Phillips LLP, Former
Assist. Sec. of DOL – OSHA and Chair, OSH Review Commission**

The Occupational Safety and Health Administration (OSHA) has issued a new final rule revising its Recording and Reporting Occupational Injuries and Illnesses regulation. The OSHA rule requires certain employers to electronically submit injury and illness data. It also prohibits employers from discouraging employees from making injury and illness reports.

The anti-retaliation provisions were supposed to become effective on August 10, 2016; however OSHA recently announced that enforcement of the anti-retaliation provisions would be delayed until November 1, 2016.

Beginning in 2017, certain employers will be required to electronically submit injury and illness data that they are already required to record on their onsite OSHA Injury and Illness forms. Establishments with 250 or more employees in industries covered by the recordkeeping regulation must submit information from their 2016 Form 300A by July 1, 2017. These employers will be required to submit information from all 2017 forms by July 1, 2018. Beginning in 2019 and annually thereafter, the information must be submitted by March 2. Establishments with 20-249 employees in certain high-risk industries must submit information from their 2016 Form 300A by July 1, 2017, and their 2017 Form 300A by July 1, 2018. Beginning in 2019 and every year thereafter, the information must be submitted by March 2.

Biography: Edwin G. Foulke, Jr is a partner in the Atlanta office of Fisher & Phillips LLP, a leading national labor and employment law firm. He currently serves as co-chair of the firm's Workplace Safety and Catastrophe Management Practice Group. His national practice includes workplace safety and OSHA compliance assistance and strategic safety planning, whistleblower compliance and litigation involving the 23 whistleblower statutes handled by OSHA, defense of employers in responding to workplace health and safety enforcement litigation and rulemaking, legislative and regulatory initiatives/ matters.

Ed served as Assistant Secretary of Labor for OSHA, named to this position by President George W. Bush in 2005. As head of OSHA, he directed a staff of more than 2,200 safety and health professionals, whistleblower investigators and support personnel. During his tenure at OSHA, workplace injuries, illnesses and fatalities rates dropped to their lowest recorded level.

Ed served on the OSH Review Commission from 1990 to 1995, and as Chair from March 1990 to February 1994. He is the only person to serve as both head of OSHA and Chairman of the OSH Review Commission. He has been named one of the "50 Most Influential EHS Leaders" by EHS Today and Occupational Hazards magazines.

Ed graduated from North Carolina State University, earned his law degree from Loyola University and a Master of Law degree from Georgetown University Law School. He has served as an adjunct professor at New Orleans' St. Mary's Dominican College. He is admitted to practice in Georgia, South Carolina, North Carolina and the District of Columbia, and is admitted in the Fourth, Eleventh, and D.C. Federal Circuit Courts of Appeals, as well as the U.S. Supreme Court.



What's New with Nano? Health and Safety Management for Engineered Nanomaterials in the Workplace

**Michele Shepard, Ph.D., CIH
Vice President/Senior Project Manager/Senior Scientist
Colden Corporation**

The discovery, development and testing, and commercialization of engineered nanomaterials and nano-enabled products has continued to grow, impacting an increasing number of workplaces.

The convergence of chemical, biological and radiological issues in advanced materials and manufacturing may pose additional EHS challenges. Her presentation will highlight current and emerging nanotechnology applications, and practical approaches to evaluate and manage workplace health and safety risks from engineered nanomaterials produced, used, or released in laboratory, industrial and construction environments. This presentation will include a review of the current state of the science, management processes, and assessment methods, and updates on key resources that can be used by health and safety practitioners.

Biography: Michele Shepard is currently Vice President/Senior Project Manager/Senior Scientist at Colden Corporation in Albany, NY. She is a Certified Industrial Hygienist with a BS degree in Industrial Hygiene and Environmental Toxicology, an MS degree in Environmental Studies, and a PhD in Nano-Bioscience.

She has over 20 years of EHS experience. As an EPA STAR Fellow, she conducted exposure assessment studies of metal oxide nanoparticles used in the semiconductor industry including air and surface sampling, and control banding.

Michele served as a representative for the US Technical Advisory Group for ANSI/ISO 229 Work Group 3 and she is the Past Chair of the AIHA Nanotechnology Working Group. She is also the President-elect of the AIHA Eastern Upstate New York section.



Reducing Generation of Respirable Crystalline Silica during Hydraulic Fracturing Activities When Using Treated Proppant Sand

Matthew Navea
Corporate Director EHS, Preferred Sands –
Radnor, PA

Large volumes of proppant sand are utilized during well completion activities. Proppant sand contains a high percent crystalline silica (quartz). Previous published work by NIOSH (JOEH 2013) found that exposures to “well site workers (engaged in hydraulic fracturing) routinely exceeded occupational health criteria (to respirable crystalline silica) and, in some cases by up to 10 or more times.” The current study supports an appreciable reduction in airborne crystalline silica levels as the result of using treated proppant sand.

One hundred forty (140) personal breathing zone (PBZ) samples for respirable crystalline silica were collected in 2014 and 2015 at twelve (12) different well sites in five states and in British Columbia, Canada. All samples were collected and analyzed in a manner consistent with NIOSH Method 7500. The samples were analyzed at an AIHA® accredited laboratory. The sampling results indicate that 94% of the samples were below the former permissible exposure limit (PEL) of 100 $\mu\text{g}/\text{m}^3$, 86% were below the new PEL of 50 $\mu\text{g}/\text{m}^3$, and 76% were below the new action level of 25 $\mu\text{g}/\text{m}^3$. The results provided in this presentation support the use of treated proppant sand as an effective means to reduce airborne respirable crystalline silica levels during hydraulic fracturing.

Biography: Matt Navea is the Corporate Director – EHS for Preferred Sands, located in Radnor, PA. He has over twenty (20) years of Environmental, Health and Safety (EHS) experience in the chemical, pharmaceutical, and the oil and gas industry. He is currently employed by Preferred Sands.

Mr. Navea has implemented and established proactive EHS policies, procedures and activities that have helped drive organizational compliance and success. Mr. Navea is part of the Preferred Sands team that has supported the use of treated proppant sand as a product substitution and safer alternative to untreated proppant sand to reduce worker exposure to respirable crystalline silica exposure during hydraulic fracturing activities.

Mr. Navea is a member of the Philadelphia section of the AIHA and earned his Bachelor of Science in Occupational Safety and Industrial Hygiene from Millersville University.



Updates to the Toxic Substance Control Act

**Neil Feldscher, CIH, CSP, FAIHA, Esq.
Chief of EHS for the NYC Department of Environmental
Protection. (NYCDEP)**

Senator Frank Lautenberg (NJ) spent the last years of his life pushing for amendments to the Toxic Substance Control Act (TSCA) only to see it fall short. After his death, with bipartisan support and support of both industry and environmentalists, Congress passed the Frank Lautenberg Chemical Safety for the 21st Century Act. This was the first significant chemical safety amendment to TSCA in over 40 years and will have an impact on manufacturing, industry, and the EPA itself.

Changes include the risk based screening approach, prioritization of chemicals, conducting safety assessments, requesting & obtaining safety data from manufacturers, modifying the process of reviewing chemicals, establishing deadlines for conduct of safety assessments, and the rules associated with confidential business information claims. His talk will review the history and failures of TSCA, the impact of REACH, and an overview of the changes and impacts of the Lautenberg TSCA Update. By this time, we will already have witnessed the first months of progress by the EPA under the new rules.

Biography: Mr. Feldscher is the Chief, Environmental Health and Safety Programs for the Bureau of Engineering Design and Construction (BEDC) of the New York City Department of Environmental Protection (DEP). He is responsible for managing the EHS section for a \$14B capital construction program and has recently led the development and implementation of an EHS (ISO 14001/ANSI Z-10) Management System for BEDC. He additionally assists in the development of DEP policies and procedures for EHS issues.

After Super Storm Sandy, he served as the EHS technical lead for the New York City Rapid Repairs public works program which provided temporary repairs to more than 15,000 homes, served on the Deputy Mayor Super Storm Sandy After-Action Review Committee and assisted with hazard and risk communication to the public. He currently serves as the EHS Technical Manager for the NYC "Build It Back" public works program aimed at providing repairs to more than 12,000 homes.

Formerly, as an attorney in the environmental group of the litigation department of a large law firm he counseled clients on administrative and environmental matters. He also provided advice and counsel on the complex issues surrounding the interfaces of bankruptcy, condemnation, and environmental laws. He is admitted to the practice of law in both NJ and NY.

Neil has worked as an industrial hygiene, health, safety, and environmental consultant and expert witness. He is an AIHA Fellow and has written and lectured on the aspects of experts and their work in the legal arena, environmental law, ethics, personal liability issues, and the incorporation of EHS into design and construction services. He has recently been honored by selection onto the AIHA Distinguished Lecturers' List. He served as an editor for the seventh edition of the New Jersey Environmental Law Handbook and was the editor of Legally Speaking, the newsletter of the former Legal Branch of the ASSE Consultant Practice Specialty.

Mr. Feldscher is former chair of the AIHA Law Committee and chair of the former Legal Branch of the ASSE. He received his B.S. from the University of Delaware and his J.D. degree from Fordham University, where he was an Editor of the Corporate and Financial Law Journal.