

San Antonio, TX + May 31 - June 5 + [AIHce2014.org](http://AIHce2014.org) + [#AIHce](https://twitter.com/AIHce)

# AIHce2014

## + STEWARDSHIP

*Evolution & Journey to a Safer Tomorrow*

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with no chance of errors that can occur with squeeze-type pumps. Sampling with some competitor pumps may require as many as 100 strokes! The Gastec pump requires one stroke or less for most applications. This means:

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\*Available only on model GV-110.

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easy to pull handle locks into two positions (50 ml and 100 ml), denoted by clear alignment markings on the shaft and body for accurate and complete sampling.

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ANSI/ASSE Z9.14 - 2014  
Testing and Performance-Verification  
Methodologies for Ventilation Systems for  
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Biosafety Level 3 (ABSL-3) Facilities



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- Ethics for the Safety and Health Professional: Approaches and Case Studies
- 2014 ERPG/WEEL Handbook
- 2014 ERPG Update Set
- ANSI/ASSE Z9.14-2014


## Also in the AIHA booth...

- Purchase a commemorative 75th Anniversary t-shirt!
- Take a sneak-peek at upcoming AIHA conferences around the world.
- Low battery? Visit the complimentary "Charging Bar" to recharge your mobile devices!

ALL AT THE AIHA BOOTH! It's the place to be!





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## AIHce At a Glance

	Saturday – Sunday May 31 - June 1	Monday June 2	Tuesday June 3	Wednesday June 4	Thursday June 5	
8:00 am	Professional Development Courses (PDCs)	Opening Session	General Session	General Session	Technical Sessions	
9:00 am		Expo Only	Expo Only	Expo Only		
10:00 am						
11:00 am						
NOON		Technical Sessions	Technical Sessions	Technical Sessions		
1:00 pm		Expo Only	Expo Only	Expo Only		
2:00 pm		Technical Sessions	Technical Sessions	Technical Sessions		
3:00 pm						
4:00 pm						
5:00 pm		EXPO OPENING 75th Anniversary Celebration				
6:00 pm						
7:00 pm			MSA/AIHA Reception			
8:00 pm	Social Events	Social Events	Social Events	Social Events		



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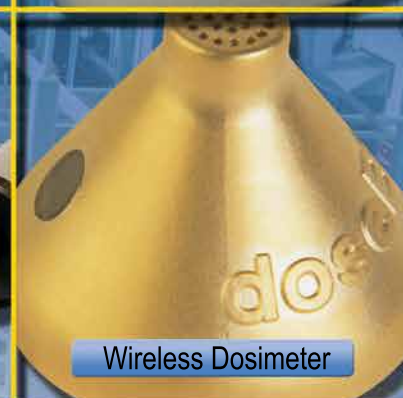
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# GENERAL INFORMATION

Education sessions, the Expo, Speaker Ready Room, and the Career Advantage Fair are at the Convention Center (HBGCC). Most volunteer group meetings will be held at the Grand Hyatt (a full listing can be found on pages 84-86). A map of the HBGCC can be found on page 61.

## REGISTRATION AND INFORMATION DESK HOURS

### East Registration, HBGCC

Friday .....	5:00 p.m.-7:00 p.m.
Saturday-Monday .....	7:00 a.m.-5:30 p.m.
Tuesday .....	7:30 a.m.-5:30 p.m.
Wednesday .....	7:30 a.m.-4:00 p.m.
Thursday .....	7:30 a.m.-10:30 a.m.

Registrants must wear a name badge to be admitted to AIHce sessions and events. Tours, AIHF activities and selected social activities require a ticket. Once tickets are purchased, fees are not refundable; however, ticket exchanges may be permitted. After one initial re-print, there is a \$5.00 charge for a lost badge or ticket replacement. *Lanyards provided by Sensidyne.*



## AIHCE 2014 EXPO

### Expo Hall C & D, HBGCC

Monday .....	9:00 a.m.-5:30 p.m.
Tuesday .....	9:00 a.m.-3:00 p.m.
Wednesday .....	9:00 a.m.-1:30 p.m.

## SPEAKER READY ROOM

### Room 209, HBGCC

Saturday-Sunday .....	7:00 a.m.-5:30 p.m.
Monday-Wednesday .....	7:30 a.m.-5:30 p.m. (6:30 p.m. on Wednesday)
Thursday .....	7:30 a.m.-4:30 p.m.

Check-in is mandatory. Visit the Speaker Ready Room at least 60 minutes prior to the start of the session.

## VOLUNTEER RED CARPET CLUB

### Bridge Hall- HBGCC

Monday-Wednesday, 9:00 a.m.-4:00 p.m.

AIHA loves its volunteers, both national and local. To show its appreciation, AIHA is providing an exclusive members-only lounge for all AIHA volunteers to enjoy.

## AIHce ON DEMAND

### East Registration - HBGCC

AIHce On Demand offers the following, available online 24/7: Presentation slides synched to audio recordings, downloadable MP3 files and abstract presentations, and up to 250 hours of recorded educational content.

Pay just \$75 through the end of the conference. Don't delay! After AIHce, the price increases to \$195.

AIHce On Demand is brought to you by Scott Safety



## COMPLIMENTARY WIFI (ACCESS CODE: AIHCE2014)

Wireless Internet access is available throughout the HBGCC.

## CHILDREN

Children and young adults 18 and under are not permitted in courses or in the Expo during move-in/move-out.

## FIRST AID AND ASSISTANCE

### East Registration Area - HBGCC

A first aid station is staffed daily, Saturday through Thursday.

## LOST AND FOUND

### Information Kiosk, East Registration, HBGCC

## TECHNICAL TOURS

Board the bus at the Grand Hyatt, Market Street Entrance, at least 15 minutes prior to published tour departure.

Visitors must present a valid photo ID. Shirts with sleeves are required. No open-toe shoes or high heels, skirts or dresses are permitted. Because of the Texas weather, shorts are allowed, but they must be walking shorts. Camera phones, cameras, handbags, book bags, briefcases, purses, and backpacks are not allowed.

## DON'T FORGET TO COMPLETE YOUR EVALUATION!

Use your smartphone, laptop, iPad or other mobile device or the cyber center computers to access the technical session evaluations via the AIHce Mobile App. Visit <http://m.core-apps.com/aihce2014> or scan the QR code.



## PDC HANDOUTS

To access electronic handouts for the PDC sessions, go to [www.aiha.org/eMats](http://www.aiha.org/eMats). Need assistance? Please stop by the Speaker Ready Room.

**GUESTS**—All accompanying registered spouses and guests are invited to attend the Bienvenido a San Antonio Guest Brunch (ticket required) on Monday at 10:30 a.m. at the Grand Hyatt, Lone Star A. See who is attending AIHce and meet old friends at this annual event. Hear what San Antonio has to offer and get tips on what to do, what to see and where to eat in this charming city.



## SPECIAL EVENTS

### MSA/AIHA Reception

Tuesday at 6:30 p.m., Grand Hyatt, Texas Ballroom

Everyone who is anyone will be at this must-attend annual event. Jointly sponsored by AIHA and MSA.



### 28th Annual AIHF FunRun

Tuesday, 6:30 A.M. - 8:00 A.M.

Lace up your running shoes and run 5k or walk 2k. Fee \$40. All participants must check-in at the FunRun desk to sign a waiver prior to the race. Hours: Sunday, 12:00 p.m. - 5:00 p.m., Monday, 8:00 a.m. - 5:00 p.m.

### First Timers Orientation

Monday, June 2, 6:45 a.m. - 7:45 a.m.

Room 008, HBGCC

First time attending?

Hear tips on how to maximize your overall conference experience and meet other first-time conference-goers.

Sponsored by Dupont.



Support AIHF by purchasing the AIHce 2014 pin at the AIHA booth.

## CERTIFICATION

[www.aihce2014.org/certification](http://www.aihce2014.org/certification)

For detailed information about CIH requirements, contact ABIH directly at [www.abih.org](http://www.abih.org) or visit the ABIH Booth #6070 when on-site.

## CYBER MESSAGING CENTERS

Looking for an attendee?

Need to check email?

Use the complimentary Cyber Messaging Center.

Three locations at the HBGCC:

- East Registration
- Expo Hall
- Concourse Level

# CareerAdvantage Development Fair

Henry B. Gonzalez Convention Center • Bridge Hall



In today's job market, it is vital to be equipped with the knowledge and skills to position yourself as a strong candidate—whether as an active job seeker or an employed IH professional. Stop by the *CareerAdvantage* Development Fair at AIHce and get the tools you need to begin improving your career today.

Take a look at this year's lineup of informative seminars and events:

## HOW TO USE THE AIHA 2013 COMPENSATION SURVEY IN YOUR JOB SEARCH

**Monday, June 2, 1:30 – 2:15 P.M.**

*Mary Ellen Brennan, SPHR*  
*Adam Seery, CAE*

AIHA staff will provide an overview of the 2013 Compensation Survey, high-level results and trends, as well as how to apply the information in the survey and use it in your career.

## DEVELOPING A CAREER PORTFOLIO

**Monday, June 2, 2:30 – 3:30 P.M.**

*Laurie Corsi, CIH*  
*Isabel Zuclich, MPH*

Explore the ins and outs on managing your career through showcasing your best qualities. The workshop will also include a brainstorming session to kick-start your personalized portfolio.

## MOCK INTERVIEWING

**Tuesday, June 3, 10:00 A.M. – 12:00 P.M. & 1:00 PM – 3:00 PM**

See yourself through an employer's eyes when you meet with an experienced hiring manager during a mock interview. You will receive helpful feedback and learn how to make the most effective presentation of skills, abilities, and professionalism.

## SPEED NETWORKING

**Tuesday, June 3, 3:00 – 4:00 P.M.**

Build lasting connections with colleagues from all levels and industries at this innovative and fun networking event. Introduce yourself to a new colleague as you try to match what you learn about them with squares on a bingo card. Don't forget to bring plenty of business cards!

## RÉSUMÉ CRITIQUING

Bring your résumé to the Development Fair to sign up for your résumé critiquing session with an experienced hiring director. You will get helpful feedback directly related to style, length, focus, use of accomplishments and keywords, and more

**Monday, June 2**

**9:00 a.m.–Noon and 3:30 p.m.–4:00 p.m.**

**Tuesday, June 3**

**9:00 a.m.–Noon and 1:00 p.m.–3:00 p.m.**

**Wednesday, June 4**

**9:00 a.m.–Noon**





# STUDENT AND YOUNG MEMBER ACTIVITIES

## FUTURE LEADERS AND YOUNG MEMBER RECEPTION

Sponsored by 3M (by invitation)

Sunday, June 1, 7:00 p.m. – 10:00 p.m.

Casa Rio, 430 E. Commerce Street



Have you been a part of the Future Leaders Institute or are you a student attending AIHce? If so, attend the Future Leaders and Young Member Reception to socialize and to meet new people.

## FIRST TIMERS ORIENTATION SESSION

Sponsored by DuPont

Monday, June 2, 6:45 a.m. – 7:45 a.m.

Room 008, HBGCC



Is this your first time attending AIHce? If so, join us at the First Timers Orientation Session and learn how to make your first AIHce your best experience of the year.

## STUDENT TABLE TOPICS

Monday, June 2, 1:00 p.m. – 2:00 p.m., Expo

Topics address issues of specific interest to young industrial hygienists. Seating is first-come, first-served. The first 25 attendees to appear at this session will receive a discounted voucher for lunch.

Topics include: Breaking Down Barriers, Career Paths, CIH Exam 101, IH in an EHS World, Field Work & Travel for the IH, Networking for the IH.

## STUDENT AND EARLY CAREER PROFESSIONALS TRACK

The following technical sessions are for students and those new to the profession.

- **RT 205: The IH Challenge: Do Academic, Business, Political and Professional Needs Align?**  
Monday, June 2, 10:30 a.m. – 1:00 p.m., Room 207, HBGCC
- **RT 208: Perspectives on Preparation for the CIH Exam v9.0**  
Monday, June 2, 1:30 p.m. – 5:00 p.m., Room 214 D, HBGCC
- **RT 225: The Real World: Industrial Hygiene**  
Tuesday, June 3, 2:00 p.m. – 5:00 p.m., Room 207, HBGCC

## MENTORING PROGRAM NETWORKING EVENT

Hosted by the Students and Early Career Professionals (SECP) Committee

Sponsored by ABIH



Monday, June 2, 6:00 p.m. – 8:00 p.m., Rita's on the River, 245 E. Commerce Street

This event is open to all participating members of AIHA's Mentoring Program, as well as to students and professionals interested in being a mentor or having a mentor!

To learn more about the AIHA Mentoring Program, stop by the AIHA Mentoring Booth in the Expo Hall.

## STUDENT LOCAL SECTIONS COUNCIL BUSINESS MEETING

Tuesday, June 2, 11:00 am-12:30 pm

Grand Hyatt Hotel, Seguin A

Meet other student local section officers and share best practices. Anyone interested in creating a student local section is invited to attend.

## STUDENT POSTER SESSION

Wednesday, June 4, 10:00 a.m. – Noon, Expo

Check out the scientific findings of your peers at the 24th Annual Student Poster Session. Students will discuss their research and two posters will be selected "Best of Session."

Awards given by AIHA Volunteer Groups will be presented at 12:30 p.m. next to the student posters.



CITY OF SAN ANTONIO  
JULIÁN CASTRO  
MAYOR

Welcome to San Antonio for the American Industrial Hygiene Association Annual Meeting! We are pleased to host you in our city.

Now the nation's seventh-largest city, San Antonio represents the new face of America — a diverse, globally competitive city with a dynamic vision for national and international economic development. In addition to our unique treasures like the Alamo and the River Walk, you will find an emerging brainpower community led by the biosciences, aerospace, health care and cybersecurity.

I hope you will have an opportunity while you are here to take in the myriad attractions in our city. On behalf of the residents of San Antonio, I wish all of you a memorable and enjoyable visit!

Sincerely,

JULIAN CASTRO  
MAYOR

# MERCURY & Hydrogen Sulfide



## **JEROME<sup>®</sup> J505 PORTABLE ATOMIC FLUORESCENCE SPECTROSCOPY MERCURY VAPOR ANALYZER**

Since mercury vapor is not something people can see, how do they determine their amount of exposure? Arizona Instrument, LLC manufactures the J505 Atomic Fluorescence Analyzer; a handheld atomic fluorescence spectrophotometer that measures the concentration of mercury in air. The lower detection limit of this instrument is 50ng/m<sup>3</sup> (0.000050mg/m<sup>3</sup>), and it can detect as high as 0.5mg/m<sup>3</sup>. These detection limits exceed the current industrial exposure limits, as well as clean-up levels for public facilities.

**Find the full white paper at:**

<http://www.azic.com/blog/?p=219?MAG=AIHce&TYPE=Sponsorship+Ad>

Accuracy and Precision (Standard mode):

Gas Level	Accuracy	Precision (RSD)
0.3 µg/m <sup>3</sup>	± 15%	15%
1 µg/m <sup>3</sup>	± 10%	7%
25 µg/m <sup>3</sup>	± 10%	5%
100 µg/m <sup>3</sup>	± 10%	3%






**Product  
Stewardship  
Society**

# STEWARDSHIP 2014

May 31-June 5 • San Antonio, TX • [ProductStewardsConference.org](http://ProductStewardsConference.org)

\* All Stewardship sessions take place at the Grand Hyatt San Antonio in Lone Star D & E

	Monday June 2	Tuesday June 3	Wednesday June 4	Thursday June 5
8am	<b>Opening General Session</b>	<b>Emerging Articles Regulations</b> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• Battery &amp; Packaging Requirements</li> <li>• Customer &amp; Market Deselection</li> <li>• EU REACH Authorization</li> </ul>	<b>Product Stewardship Risk Assessments</b> <ul style="list-style-type: none"> <li>• Consumer Health</li> <li>• Ecological (Case Study)</li> <li>• Company Approaches (Consumer Products)</li> </ul>	<b>Product Stewardship Management Systems</b> <ul style="list-style-type: none"> <li>• National Aerospace Standard</li> <li>• Chemical Industry Commitment to Product Safety</li> <li>• ChemStewards Management System</li> <li>• Home Appliance Manufacturers</li> </ul>
9am		<b>Emerging Chemical Regulatory Issues - II</b>		
	<b>Networking Break</b>			
10am	<b>Stewardship Profession &amp; Core Competencies</b>	<b>Networking Break</b>	<b>Networking Break</b>	<b>Networking Break</b>
		<b>Emerging Chemical Regulatory Issues - II</b> <ul style="list-style-type: none"> <li>• Managing Confidential Business Information</li> <li>• Asia Pacific</li> <li>• UNEP</li> </ul>	<b>Product Stewardship Risk Assessments</b> <ul style="list-style-type: none"> <li>• Exposure Assessment</li> <li>• Life Cycle Analysis</li> <li>• ICCA Global Product Strategy</li> </ul>	<b>Value/Supply Chain</b> <ul style="list-style-type: none"> <li>• Sharing Safety &amp; Regulatory Information</li> <li>• Customer / Market Deselection</li> </ul>
11am	<b>Stewardship Keynote Address</b>			<b>Closing Remarks</b>
12pm	<b>Networking Lunch</b>	<b>Networking Lunch</b>	<b>Networking Lunch</b>	Thank You to the Following Sponsors for Supporting Stewardship 2014:
1pm	<b>Emerging Chemical Regulatory Issues - I</b> <ul style="list-style-type: none"> <li>• REACH</li> <li>• Canada</li> </ul>			 <b>RICHARD M. FAIRBANKS SCHOOL OF PUBLIC HEALTH</b> INDIANA UNIVERSITY BUPUI
2pm	<b>Emerging Chemical Regulatory Issues - I</b> <ul style="list-style-type: none"> <li>• TSCA</li> </ul>	<b>Emerging Product Stewardship Issues</b> <ul style="list-style-type: none"> <li>• Nanotechnology</li> <li>• Endocrine</li> <li>• Cumulative Exposure</li> </ul>	<b>Emerging Extended Producer Responsibility Requirements</b> <ul style="list-style-type: none"> <li>• Worldwide Take-Back Legislation</li> <li>• EPR Fee Paying Obligations</li> <li>• Advancements in EPR</li> </ul>	<b>Deskin Associates/ToxMinds</b>
	<b>Networking Break</b>			
3pm	<b>Emerging Chemical Regulatory Issues - I</b> <ul style="list-style-type: none"> <li>• TSCA</li> </ul>	<b>Networking Break</b>	<b>Networking Break</b>	
4pm		<b>Emerging Product Stewardship Issues</b> <ul style="list-style-type: none"> <li>• Bio Monitoring</li> <li>• Green Chemistry</li> <li>• Alternative Assessments</li> </ul>	<b>Emerging Extended Producer Responsibility Requirements</b> <ul style="list-style-type: none"> <li>• Chemicals in Products</li> <li>• OSHA's Toolkit for Employers &amp; Workers</li> <li>• Product Transparency &amp; Disclosure</li> </ul>	
	<b>Opening Cocktail Reception in Expo</b>			
5pm				

**PROGRAM AT A GLANCE**

# Friday/Saturday At-a-Glance

## Friday, May 30

5:00 p.m.-7:00 p.m.

Registration, *HBGCC, East Registration*

## Saturday, May 31

7:00 a.m.-7:30 a.m.

Monitor Meeting for Saturday PDCs, *HBGCC, 209*

7:00 a.m. – 5:30 p.m.

Registration, *HBGCC, East Registration*

Speaker Ready Room, *HBGCC, 209*

8:00 a.m. – Noon

- **PDC 201 Workplace Violence - Understanding the Problem and Creating Solutions**, *HBGCC, 202A*

8:00 a.m. – 5:00 p.m.

- **PDC 010 Registry Preparation: Theory and Application of the 4Gas/PID Sensor Technology**, *HBGCC, 207B*
- **PDC 020 Registry Preparation: SDS and Label Authoring**, *HBGCC, 216*
- **PDC 101 How to Avoid 10 Common Pitfalls in Injury Management**, *HBGCC, 217A*

- **PDC 102 Health & Safety Through Worker Fatigue Risk Management**, *HBGCC, 217D*
- **PDC 103 Asbestos Health Risk Assessment: Modeling, Characterization, and Communication**, *HBGCC, 213A/B*
- **PDC 104 Building a Successful Consulting Practice**, *HBGCC, 006A*
- **PDC 105 Environmental Law & Regulations for Industrial Hygienists**, *HBGCC, 006D*
- **PDC 106 Sustainable Office Design, with Humans in Mind**, *HBGCC, 006B*
- **PDC 107 Ergonomics Toolkit: Applying Basic Tools in Assessments**, *HBGCC, 202B*
- **PDC 108 Practical Applications of Portable Radiation Instruments**, *HBGCC, 203A*
- **PDC 109 Dust Explosion Hazards, Prevention and Protection Practices**, *HBGCC, 203B*
- **PDC 110 Developing Meaningful Leading EHS Objectives for Your Organization**, *HBGCC, 206A*
- **PDC 111 Hydraulic Fracturing: Toxicology Principles & OEH Exposure Considerations**, *HBGCC, 214A*
- **PDC 112 Tracing Air in Buildings**, *HBGCC, 007C*
- **PDC 113 OSHA Hazard Communication and GHS Implementation**, *HBGCC, 214B*
- **PDC 114 Optimizing Hearing Protection and Hearing Loss Prevention**, *HBGCC, 205*
- **PDC 115 If I'm Teaching, Why Aren't They Learning?!**, *HBGCC, 217B*
- **PDC 701 Exposure Assessment Strategies and Statistics**, *HBGCC, 201*
- **PDC 702 Monte Carlo Techniques in Exposure and Risk Assessment**, *HBGCC, 206B*
- **PDC 703 Exposure Judgment: Improving Inhalation, Dermal & Noise Assessments**, *HBGCC, 214C*
- **PDC 704 Use of Mathematical Models to Estimate Exposure**, *HBGCC, 006C*

1:00 p.m. – 5:00 p.m.

- **PDC 301 Smart Devices and the EHS Professional**, *HBGCC, 007A*

## AIHA

8:30 a.m.-5:00 p.m.

Analytical Accreditation Board, *Hyatt, Bonham D, Level 3*

12:00 p.m.-4:00 p.m.

Joint International Board Meeting (by invitation), *Hyatt, Presidio B, Level 3*



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# Sunday At-a-Glance

## Sunday, June 1

**7:00 a.m.-7:30 a.m.**

Monitor Meeting for Sunday PDCs, *HBGCC, 209*

**7:00 a.m. – 5:30 p.m.**

Registration, *HBGCC, East Registration,*

Speaker Ready Room, *HBGCC, 209*

**8:00 a.m. – Noon**

- **PDC 503** Making Your IH Evidence Count, *HBGCC, 203B*
- **PDC 504** Practical Nanotechnology: Old Theories and New Concepts, *HBGCC, 207A*
- **PDC 505** Developing a Business Case: Selecting the Best Solutions, Getting the Needed Resources, Part 1: Financial Aspects, *HBGCC, 006A*

**8:00 a.m. – 5:00 p.m.**

- **PDC 401** Dust Combustibility Hazards – From Basics to Advanced, *HBGCC, 006B*
- **PDC 402** The GHS - Understanding the New Hazard Communication, *HBGCC, 205*
- **PDC 404** Fundamentals of Laboratory Biosafety, *HBGCC, 206A*
- **PDC 406** Integrating Wellness and EHS – Benefits and How!, *HBGCC, 210A*
- **PDC 407** Troubleshooting Ventilation Systems for OH&S Professionals, *HBGCC, 008B*
- **PDC 408** Life Safety Engineering, *HBGCC, 217A*
- **PDC 409** Bayesian Inference for Industrial Hygiene Applications, *HBGCC, 006D*
- **PDC 410** EH&S 101 for Healthcare: Basic Principles of Healthcare Safety and Practical Applications, *HBGCC, 202A*
- **PDC 411** Managing Radiation Safety Programs for Industrial Hygienists, *HBGCC, 007D*
- **PDC 412** How to be a More Effective Chemical Hygiene Officer, *HBGCC, 007C*
- **PDC 413** Exceptional Functional Leadership, *HBGCC, 207B*
- **PDC 414** EHS Management Systems 101, *HBGCC, 217B*
- **PDC 415** Noise Control Engineering, *HBGCC, 007A*
- **PDC 416** Fundamentals of Nonionizing Radiation, *HBGCC, 202B*

- **PDC 417** Epidemiology: Understanding dose and response, *HBGCC, 217C*

- **PDC 418** REACH - A Risk Management Strategy, *HBGCC, 217D*

- **PDC 419** Introduction to Risk Assessment for the Industrial Hygienist, *HBGCC, 007B*

- **PDC 420** Applying a Hierarchy of Occupational Exposure Limits, *HBGCC, 216*

- **PDC 421** Electrical Safety in the Workplace: Energized Work Practices/Arc Flash/NFPA 70E (2012 Edition), *HBGCC, 203A*

- **PDC 422** Activities-Based Training for Safety and Health, *HBGCC, 214*

- **PDC 423** Toxicology Strategies for Petroleum Industry Exposure Assessments, *HBGCC, 214B*

- **PDC 424** Methods and Applications for Chemical Detection in Real Time, *HBGCC, 214A*

- **PDC 425** Bayesian Statistics: Applications in IH Data Interpretation, *HBGCC, 212A/B*

- **PDC 426** Confined Space Entry, *HBGCC, 213A/B*

- **PDC 701** Exposure Assessment Strategies and Statistics, *HBGCC, 201*

- **PDC 702** Monte Carlo Techniques in Exposure and Risk Assessment, *HBGCC, 206B*

- **PDC 703** Exposure Judgment: Improving Inhalation, Dermal & Noise Assessments, *HBGCC, 214C*

- **PDC 704** Use of Mathematical Models to Estimate Exposure, *HBGCC, 006C*

**1:00 p.m. – 5:00 p.m.**

- **PDC 601** Integrating Job Hazard Analyses (JHAs), *HBGCC, 203B*

- **PDC 602** Exposure Assessment and Risk Management for Nanomaterials, *HBGCC, 210B*

- **PDC 604** Practical Aspects of Whole Air Sampling, *HBGCC, 207A*

- **PDC 605** Developing a Business Case: Selecting the Best Solutions, Getting the Needed Resources, Part 2: Non-Financial Aspects, *HBGCC, 006A*

## ACGIH

**8:00 a.m.-5:00 p.m.**

Board of Directors Meeting, *Hyatt, San Jacinto, Level 2*

**6:00 p.m.-7:30 p.m.**

Membership Reception and Annual Meeting of the Membership, *Hyatt, Lone Star A, Level 2*

## AIHA

**8:00 a.m.-4:30 p.m.**

Board of Directors Meeting, *Hyatt, Presidio B, Level 3*

**1:00 p.m.-6:00 p.m.**

AIHA Registry Programs SDS and Label Authoring Registry Exam, *Hyatt, Crockett A, Level 4*

**6:00 p.m.-8:00 p.m.**

Academic Accreditation Committee, *Hyatt, Bonham D, Level 3*

**7:00 p.m.-9:00 p.m.**

Joint Industrial Hygiene Ethics Education Committee, *Hyatt, Travis A, Level 3*

**7:00 p.m.-10:00 p.m.**

Future Leaders and Young Members Reception (by invitation), *Casa Rio, 430 E. Commerce Street*

## Stewardship 2014

**5:30 p.m.-7:00 p.m.**

Stewardship Networking Reception, (Stewardship registrants only) *Hyatt, Lone Star F, Level 2*

## AIHF

**6:00 p.m.-7:00 p.m.**

Recognition Reception (by invitation), *Casa Rio, 430 E. Commerce Street*

## JOEH

**7:00 p.m.-9:00 p.m.**

Editorial Review Board Meeting, *Hyatt, Sequin A/B, Level 4*

## Ancillary

**7:30 a.m.-5:00 p.m.**

ABIH Board Meeting, *Hyatt, Goliad, Level 2*

**5:30 p.m.-7:00 p.m.**

Lynn C. O'Donnell Retirement Recognition Reception, *Hyatt, Lone Star B/C, Level 2*

**5:30 p.m.-7:30 p.m.**

International Safety Systems, Inc. (ISS) Forum (by invitation), *Hyatt, Presidio C, Level 3*

# Monday At-a-Glance

## Monday, June 2

**7:00 a.m. – 5:30 p.m.**

Registration, [HBGCC, East Registration](#)

**7:30 a.m.-5:00 p.m.**

Press Room (Registered Media Representatives ONLY), [HBGCC, Bridge Hall](#)

Speaker Ready Room, [HBGCC, 209](#)

**8:00 a.m.-9:30 a.m.**

### Opening General Session



**SP01 The Next Tech Paradigm Shifts That Will Change Your World**

*Peter Leyden, Founder and CEO  
Reinventors Network, San Francisco, CA*

[HBGCC, Grand Ballroom C](#)

**8:00 a.m.-4:00 p.m.**

CareerAdvantage Development Fair 2014, [HBGCC, Bridge Hall](#)

**9:00 a.m.-5:30 p.m.**

**Expo**

Passport to Prizes, Expo Learning Pavilion, Special Displays, Cyber Center, Restaurants, Lounges. *No sessions scheduled 9:30 a.m.-10:30 a.m. and 12:30 p.m.-2:00 p.m.*

**9:00 a.m.-5:30 p.m.**

**Poster Sessions**

**Expo**

**PS 401** Authors present 10:00 a.m.-Noon

**PS 402** Authors present 2:00 p.m.-4:00 p.m.

**10:00 a.m.-11:00 a.m.**

- **CR301** Compounding Pharmacies - What Industrial Hygienists Need to know, [HBGCC, 214B](#)

**10:00 a.m.-12:30 p.m.**

- **P0101** Communication & Training - A HodgePodge, [HBGCC, 205](#)
- **P0102** Nanotechnology: Assessment & Control, [HBGCC, 217B/C](#)

**10:00 a.m.-2:00 p.m.**

Exhibitor Product Demos and Presentations, Expo Learning Pavilion, *Expo, sponsored by Arizona Instrument, LLC*

**10:30 a.m.-11:30 a.m.**

**IL01** Ask the Expert with Peter Leyden, [HBGCC, 214C](#)

**10:30 a.m.-Noon**

Bienvenidos a San Antonio Guest Brunch (admission by ticket), *Hyatt, Lone Star A, Level 2*

**10:30 a.m.-12:30 p.m.**

- **P0103** Biological Monitoring and Occupational Medicine: You are as Healthy as What You Absorb, [HBGCC, 006A/B](#)

- **RT201** Game Changers in Industrial Hygiene Air Sampling, [HBGCC, 006C/D](#)
- **RT202** Personal Protective Equipment Selection for Oil Spill Responders - A Look at API's Recommended Practice 98, [HBGCC, 007A/B](#)
- **RT203** Technological and Managerial Aspects of Large Facility Dismantlement, Demolition, and Return-to-Neutral Activities, [HBGCC, 217D](#)
- **RT204** The Importance of the Ever Evolving AIHA Value Strategy: To Use or Not To Use, That Is the Question!, [HBGCC, 214A](#)
- **RT206** Issues and Challenges in the Industrial Hygiene Practice in Latin America, [HBGCC, 212A/B](#)
- **SS01** Occupational Exposure Banding: Who Is Using It and How Well Can It Be Applied?, [HBGCC, 217A](#)

**10:30 a.m.-1:00 p.m.**

- **P0104** Industrial Hygiene General Practice II, [HBGCC, 007C/D](#)
- **RT205** The IH Challenge: Do Academic, Business, Political and Professional Needs Align?, [HBGCC, 207](#)

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

- **CR303** Challenging Incident Investigation Paradigms, [HBGCC, 202](#)
- **CR304** Wrapping Up Pharmaceutical Waste, [HBGCC, 213](#)

**12:30 p.m.-1:30 p.m.**

- **SP03** Jeffrey S. Lee Award Lecture: A 30+ Year Perspective on Certification, [HBGCC, 203](#)

**12:30 p.m.-2:00 p.m.**

- **IL02** Unsolved IH Mysteries Workshop, (pre-registration fee required) [HBGCC, 201](#)

**1:00 p.m. – 2:00 p.m.**

- **IL 08** Student Table Talks, [HBGCC, Expo](#)

**1:00 p.m. – 3:00 p.m.**

- **RT218** OHLearning.com - More Practical Based Advice from Training Providers, [HBGCC, 213](#)

**1:00 p.m.-5:00 p.m.**

- **RT207** Mock Trial - IH Evidence Admissibility and Proof of Causation, [HBGCC, 206](#)

**1:30 p.m.-4:30 p.m.**

- **P0105** Hearing Conservation I, [HBGCC, 205](#)

**1:30 p.m.-5:00 p.m.**

- **RT208** Perspectives on Preparation for the CIH Exam v9.0, [HBGCC, 214D](#)

**2:00 p.m.-3:00 p.m.**

- **CR305** Success Factors in Fall Protection,

[HBGCC, 214B](#)

- **CR306** The \$13 Billion Case for Safety Culture in Healthcare, [HBGCC, 212A/B](#)

**2:00 p.m.-4:30 p.m.**

- **RT209** PCBs in Construction: Update For An Emerging Issue, [HBGCC, 007A/B](#)
- **P0108** IAQ Case Studies (4), [HBGCC, 217D](#)

**2:00 p.m.-5:00 p.m.**

- **P0106** Evolution of Ergonomics: Assessment, Prevention, Improvement and Lessons Learned, [HBGCC, 006A/B](#)
  - **P0107** Exposure Assessment Strategies: More Tools for the Toolbox, [HBGCC, 217B/C](#)
  - **RT210** Applications (and Misapplications) of Personal Protective Equipment in Non-U.S. Facilities, [HBGCC, 007C/D](#)
  - **RT211** Lessons Learned in Labs: Creating Challenging Changes and Initiatives to Improve Interrelationships (L3 C3 I3), [HBGCC, 006C/D](#)
  - **RT212** Managing Radiation Safety Programs and Annual Tribute to Dr. Herman Cember, [HBGCC, 202](#)
  - **RT213** State of Knowledge of Governmental Research and Regulatory Actions Regarding 1-Bromopropane, [HBGCC, 207](#)
  - **RT214** Welding Fume Exposure Studies, [HBGCC, 217A](#)
- 3:30 p.m.-4:30 p.m.**
- **CR307** Confined Space Entry: What Have We Learned in 20 Years?, [HBGCC, 214A](#)
  - **CR308** Preventing Healthcare Job Injuries Through Design, [HBGCC, 214C](#)

**4:00 p.m.-5:30 p.m.**

**Expo Opening Cocktail Reception and 75th Anniversary Celebration**

A perfect opportunity to meet this year's exhibitors, browse the posters, visit with colleagues and learn about new products and services from AIHA® and ACGIH® all while celebrating 75 years of protecting worker health!

## ACGIH

**10:30 a.m.-Noon**

- **FOHS** Board of Trustees Meeting, [HBGCC, 215](#)

## AIHA

**6:45 a.m.-7:45 a.m.**

- **AIHce** First Timer Orientation, [HBGCC, 008](#)

**9:00 a.m.-4:00 p.m.**

- Volunteer Red Carpet Club, [HBGCC, Bridge Hall](#)



# Monday At-a-Glance

## 10:30 a.m.-11:30 a.m.

- Orange Council, *Hyatt, Travis B, Level 3*

## 10:30 a.m.-12:30 p.m.

- Computer Applications Committee, *Hyatt, Travis A, Level 3*
- Ergonomics Committee, *Hyatt, Presidio A, Level 3*
- Exposure Assessment Strategies Committee, *Hyatt, Bowie A/B, Level 2*
- Minority SIG, *Hyatt, Bonham D, Level 3*
- Noise Committee, *Hyatt, Seguin A/B, Level 4*
- Risk Assessment Committee, *Hyatt, Mission B, Level 2*

## 11:00 a.m.-1:00 p.m.

- Guideline Foundation Board Meeting, *Hyatt, Goliad, Level 2*

## 11:30 a.m.-12:30 p.m.

- Environmental Issues SIG, *Hyatt, Crockett D, Level 4*

## 12:30 p.m.-1:30 p.m.

- Fall Conference Planning Committee, *Hyatt, San Jacinto, Level 2*
- Red Council, *Hyatt, Travis B, Level 3*

## 12:30 p.m.-2:00 p.m.

- Legionella Project Team, *Hyatt, Independence, Level 3*

## 2:00 p.m.-2:30 p.m.

Government Affairs Update, *Hyatt, Crockett D, Level 4*

## 2:00 p.m.-4:00 p.m.

- Continuing Education Committee, *HBGCC, 218*
- Environmental Issues Committee, *Hyatt, Bowie B, Level 2*
- Finance Committee, *Hyatt, Travis A, Level 3*
- Healthcare Working Group, *Hyatt, Lone Star B, Level 2*
- Indoor Environmental Quality SIG, *Hyatt, Seguin B, Level 4*
- Nanotechnology Working Group, *Hyatt, Crockett A/B, Level 4*
- Oil and Gas Working Group, *Hyatt, Bonham B, Level 3*
- Protective Clothing and Equipment Committee, *Hyatt, Travis B, Level 3*
- Sampling and Laboratory Analysis Committee, *Hyatt, Presidio B, Level 3*
- Social Concerns Committee, *Hyatt, Bonham E, Level 3*

- Stewardship and Sustainability Committee, *Hyatt, Bonham D, Level 3*

## 2:00 p.m.-3:00 p.m.

- Volunteer Orientation, *Hyatt, Bonham C, Level 3*
- Content Strategy Input, *HBGCC, 008*

## 2:00 p.m.-6:00 p.m.

- International Affairs Committee, *Hyatt, Lone Star A, Level 2*

## 2:30 p.m.-4:30 p.m.

- Biosafety and Environmental Microbiology Committee, *Hyatt, Independence, Level 3*

## 4:00 p.m.-6:00 p.m.

- Product Stewardship Society Board Meeting, *Hyatt, San Jacinto, Level 2*

## 6:00 p.m.-8:00 p.m.

- SECP Mentoring Program Networking Event, *Rio Plaza, 245 E. Commerce Street*

## 6:30 p.m.-8:00 p.m.

- International Reception (by invitation), *Hyatt, Texas A, Level 4*

## Ancillary

### 8:00 a.m.-11:00 a.m.

- National Registry of Certified Chemists: Certification Exam (by invitation), *Hyatt, Crockett C, Level 4*

### 10:30 a.m.-12:30 p.m.

- International Training/Qualifications in OH Meeting, *HBGCC, 008*

### 5:00 p.m.-9:00 p.m.

- Department of Energy (DOE) and DOE Contractor Industrial Hygiene Meeting, *Hyatt, Lone Star C, Level 2*

### 5:30 p.m.-7:30 p.m.

- Celebration Reception for Publication of Dr. Jas Singh's Book (by invitation), *Hyatt, Bowie C, Level 2*
- University of Minnesota Alumni and Friends, *Saltgrass Steakhouse, 502 River Walk Street*

### 6:00 p.m.-8:00 p.m.

- Harvard Alumni Reception, *Hyatt, Presidio C, Level 3*

### 6:30 p.m.-8:00 p.m.

- Johns Hopkins University Reception, *Hyatt, Republic B, Level 4*

## Stewardship At-a-Glance

### MONDAY

#### 8:00 a.m. – 9:30 a.m.

Opening General Session

#### 9:30 A.M. – 10:00 A.M.

NETWORKING BREAK

#### 10:00 a.m. – 10:30 a.m.

Product Stewardship Society – Why the Buzz!!!

#### 10:30 a.m. – 11:00 a.m.

Product Stewardship Profession & Core Competencies

#### 11:00 a.m. – 12:00 p.m.

Keynote Address: The Challenge of Product Stewardship

#### 12:00 P.M. – 1:00 P.M.

NETWORKING LUNCH (Stewardship Registrants Only)

### EMERGING CHEMICALS REGULATORY ISSUES

#### 1:00 p.m. – 1:45 p.m.

The “A” and the “R” of REACH: State of Play in the EU

#### 1:45 p.m. – 2:15 p.m.

Emerging Regulations in Canada

#### 2:15 P.M. – 2:45 P.M.

NETWORKING BREAK

#### 2:45 p.m. – 3:15 p.m.

America's South Regulatory Horizon

#### 3:15 p.m. – 4:00 p.m.

Reinvigorating, Reimagining and Reinventing TSCA Regulations

#### 4:00 P.M. – 5:30 P.M.

OPENING COCKTAIL RECEPTION IN EXPO

Networking Breaks sponsored by Deskin Associates





## GENERAL SESSION

8:00 A.M.-9:30 A.M.

HBGCC GRAND BALLROOM C

THE NEXT TECH PARADIGM SHIFTS THAT WILL CHANGE YOUR WORLD

Peter Leyden, Founder and CEO, Reinventors Network, San Francisco, CA

Peter Leyden draws off his two decades in the Silicon Valley to explain about the Digital Revolution and what it means to OEHS professionals. Learn about: Apple and the mobile future, Google and the video future, Facebook and the future of collaboration, and the next waves of technology, such as energy and generational change.

### CR301

COMPOUNDING PHARMACIES — WHAT INDUSTRIAL HYGIENISTS NEED TO KNOW

10:00 A.M.-11:00 A.M.

HBGCC 214 B

Presenter: D. Miskowski, EMSL Analytical Inc, Cinnaminson, NJ.

The hundreds of product recalls that followed a 2012 Massachusetts compounding facility drug disaster are beginning to impact industrial hygienists that perform environmental monitoring of cleanrooms. Joins us to understand the U.S. Pharmacopeia 797 guidelines that govern these facilities.

### P0101

COMMUNICATION & TRAINING — A HODGE PODGE

10:00 A.M.-12:30 P.M.

HBGCC 205

Arranger: J. Zey, SEPAS, UCM, Warrensburgh, MO. Moderator: D. Robbins, Emirates National Oil Company, Dubai, United Arab Emirates. Monitors: S. Lynch, Auburn University, Homewood, AL; J. Dimos, Oak Park, IL.

10:00 A.M.-10:30 A.M.

CS-101-01 So You Want to be a WHAT When You Grow Up?! E. Maples, University of AL at Birmingham, Birmingham, AL.

10:30 A.M.-11:00 A.M.

CS-101-02 Accuracy of Reported Flash Point Values on Material Safety Data Sheets and the Impact on Product Classification.

D. Radnoff, Alberta Human Services, Edmonton, AB, Canada.

11:00 A.M.-11:30 A.M.

SR-101-03 Outsourcing Labour and Occupational Health: A Study Among Cleaners and Food Service Workers in the Healthcare Sector. P. Siganporia, University of British Columbia, Vancouver, BC, Canada; G. Astrakianakis, University of British Columbia, Vancouver, BC, Canada; M. Koehoorn, University of British Columbia, Vancouver, BC, Canada; A. Ostry, University of Victoria, Victoria, BC, Canada; A. Nicol, Simon Fraser University, Vancouver, BC, Canada; H. Alamgir, University of Texas, San Antonio, TX.

11:30 A.M.-12:00 P.M.

CS-101-04 Project Management Principles for Industrial Hygienists. A. Sheaffer, LMI, McLean, VA; J. Yasalonis, LMI, McLean, VA.

12:00 P.M.-12:30 P.M.

SR-101-05 Can Fit-Tests of Earplugs Predict the Hearing Protection Performance During Coal Mining Work? M. Wu, Grand Valley State University, Grand Rapids, MI; S. Guffey, West Virginia University, Morgantown, WV; B. Takacs, West Virginia University, Morgantown, WV; K. Michael, Michael & Associates, Inc., State College, PA.

### P0102

NANOTECHNOLOGY: ASSESSMENT & CONTROL

10:00 A.M.-12:30 P.M.

HBGCC 217 B/C

Arranger: J. Dimitri, IBM, Yorktown Heights, NY. Moderator: J. Dimitri, IBM, Yorktown Heights, NY. Monitors: E. Jones, ExxonMobil, Fairfax, VA; M. Shepard, University of Albany, Schenectady, NY.

10:00 A.M.-10:30 A.M.

CS-102-01 Traditional Industrial Hygiene and Nanotechnology-Specific Control Banding Methods - Outcome Recommendations. A. Eastlake, NIOSH, Cincinnati, OH.

10:30 A.M.-11:00 A.M.

CS-102-02 Method Development for Nanomaterials Exposure Assessment in Mixed Dust Environments. M. Kreider, Cardno ChemRisk, Pittsburgh, PA; W. Cyr, Cardno ChemRisk, San Francisco, CA; M. Tosiano, Cardno ChemRisk, Pittsburgh, PA; J. Panko, Cardno ChemRisk, Pittsburgh, PA.

11:00 A.M.-11:30 A.M.

CS-102-03 Use of a Novel Method to Assess Exposure to Nanoscale Carbon Black and Amorphous Silica at Two Tire Manufacturing Facilities. W. Cyr, Cardno ChemRisk, San Francisco, CA; M. Kreider, Cardno ChemRisk, Pittsburgh, PA; J. Panko, Cardno ChemRisk, Pittsburgh, PA.

11:30 A.M.-12:00 P.M.

CS-102-04 Task-based Exposure Assessment of Tagged Cellulose Nanocrystals. A. Eastlake, NIOSH, Cincinnati, OH; K. Martinez, NIOSH, Cincinnati, OH.

12:00 P.M.-12:30 P.M.

SR-102-05 Using Computational Fluid Dynamics to Assess the Impact of the User on Nanoparticle Containment for Traditional and Nano Fume Hoods. K. Dunn, NIOSH, Cincinnati, OH; S. Tsai, Purdue University, West Lafayette, IN; J. Bennett, NIOSH, Cincinnati, OH; S. Woskie, University of Massachusetts Lowell, Lowell, MA; M. Ellenbecker, University of Massachusetts Lowell, Lowell, MA.

### IL01

ASK THE EXPERT WITH PETER LEYDEN

10:30 A.M.-11:30 A.M.

HBGCC 214 C

Moderator: T. Nalbone, University of Texas at Tyler, Tyler, TX.

This special interactive session follows General Session, "The Next Tech Paradigm Shifts That Will Change Your World."

### P0103

BIOLOGICAL MONITORING AND OCCUPATIONAL MEDICINE: YOU ARE AS HEALTHY AS WHAT YOU ABSORB

10:30 A.M.-12:30 P.M.

HBGCC 006 A/B

Arranger: S. Que Hee, Env Health Sciences, Univ California Los Angeles, Los Angeles, CA. Moderator: R. Froehlich, Helix Environmental Inc, Dayton, OH. Monitors: K. Diep, Corporate Safety, American Airlines, Fort Worth, TX; M. Norman, Law Office of Margaret Norman, Manhattan Beach, CA.

10:30 A.M.-11:00 A.M.

CS-103-01 Model for Medical Surveillance Program for a Caribbean Upstream Oil/Gas Producer. B. Fontaine, The Windsor Consulting Group, Inc., South River, NJ.



## EXPO LEARNING PAVILION DEMOS AND PRESENTATIONS

10:00 A.M. – 2:00 P.M., EXPO LEARNING PAVILION, EXPO HALL

### 10:00 A.M. – PAVILION 2

#### Moisture and Hydrogen Sulfide Analysis in Crude Oil, *Arizona Instrument, LLC*

Crude oil is a versatile material used in thousands of different petroleum products in a variety of different industries. Industries such as the transportation fuel, asphalt, plastics and petrochemical/solvent industries are held to a high standard for both quality control for their final product as well as stringent safety regulations for their employees. Many analytical tests are often performed on samples of crude oil including moisture analysis utilizing a relative humidity sensing instrument. This method of analysis heats a sample of crude oil and carries the vapor passed a moisture specific sensor without consuming any components in the vapor in a closed system. The exhaust from this analysis can be collected and tested for other gaseous components such as hydrogen sulfide (H<sub>2</sub>S). By using a hand held hydrogen sulfide gas detector a H<sub>2</sub>S ppb reading can be determined as well as aid the calculation in determining % H<sub>2</sub>S. Coupling these two methods for crude oil analysis offer both analytical and safety hazard information.

### 10:00 A.M. – PAVILION 1

#### How DualSense® Technology Makes Single Gas Detection Users Safer, *Industrial Scientific Corporation*

DualSense® Technology, found in the all-new Tango™ TX1, uses two of the same type sensors for detection of a single gas. This redundancy, similar to the redundancies found in airliners or even the human body, makes users of the Tango the safest single gas monitor users in the world.

### 10:30 A.M. – PAVILION 1

#### Migration to Mobile Workflows, *Dakota Software Corporation*

Performing worksite analysis to identify potential exposures, non-compliance issues and risks is a multi-task endeavor. Dakota's ProActivity Suite on mobile devices enables teams of workers to collaborate in reporting an incident, preparing for an audit, evaluating key performance indicators and managing and completing tasks in any location.

### 10:30 A.M. – PAVILION 2

#### Using Chemical Challenge Breakthrough Data and Models to Establish and Support Respirator Change Schedules, *Assay Technology*

This presentation describes a method for measuring the service life of an air-purifying respirator when subject to a chemical challenge at a known concentration and breathing rate. A respirator change schedule is constructed utilizing the laboratory data in conjunction with models provided by NIOSH and others.

### 12:00 P.M. – PAVILION 2

#### Scoop MAE: A Mobile Cloud-Based Platform for Engaging Your Entire Team in Resolving Safety Issues, *Scoop MAE Platform*

The Scoop MAE Platform is more than a fully scalable field data collection and collaboration tool. It allows team members and managers to identify and resolve safety issues, while keeping managers aware of the big picture. The platform comes complete with integrated analytics and tracking metrics to predict future hazards before they happen.

### 12:00 P.M. – PAVILION 1

#### Galson Laboratories' Hydrofracking Kit, *Galson Laboratories*

A demonstration of the hydrofrackit will allow you to see how you can test for: respirable dust and silica quartz, volatile organic compounds - BTEX, hydrogen sulfide, noise and more.

### 12:30 P.M. – PAVILION 1

#### 3M™ Versaflo™ TR-600 Respiratory System, *3M Company*

The new TR-600 is a particulate, gas and vapor PAPR and is an extension of the 3M Versaflo platform of respiratory protection products. It offers continuous flow air management and multiple options for filters, headtops. It is designed for comfort and ease of use.

### 12:30 P.M. – PAVILION 2

#### Reduce Exposure, Save Lives & Time with Wireless Gas Detection, *IE Monitoring Instruments*

Rae Systems has recently made wireless technology affordable for everyday use. Monitor employees while they work and receive real time alarm and error notifications. Your newfound big brother abilities will reduce wasted sampling days and instantly identify hot spots. This presentation will offer a chance to see how your employees can company can benefit.

### 1:00 P.M. – PAVILION 2

#### Bullard SparxLift Welding Helmet for powered Air Purifying Repirator, *Bullard*

The Bullard SparxLift Welding Helmet combines ANSI Face Protection from an Auto Darkening Filter with NIOSH respiratory protection (1,000 APF) for the industry leading EVA Powered Air-Purifying Respirator. The unique Auto Lift design lets users switch from the Auto Darkening Filter for welding to grinding with the push of a button. Learn more at [www.bullard.com](http://www.bullard.com) or 877-BULLARD.

### 1:00 P.M. – PAVILION 1

#### 3M™ E-A-Rfit™ Validation System, *3M Company*

The E-A-Rfit validation system makes it easy to measure every employee's unique level of protection and takes the guesswork out of managing compliance in your hearing conservation program.

### 1:30 P.M. – PAVILION 2

#### Medgate GX2 - Advanced Industrial Hygiene Software, *Medgate, Inc.*

Developed by Medgate's own certified industrial hygienists (CIHs) with input from respected IH leaders at our client companies, the Medgate's advanced Industrial Hygiene software suite enables industrial hygienists to effectively identify hazards and mitigate risks to promote a healthy work environment. By using Medgate GX2, hygienists will not only productively and pro-actively manage IH data, but will be empowered to clearly demonstrate the value of industrial hygiene within their organizations.

### 1:30: P.M. – PAVILION 1

#### OH Learning, *Euro Safety & Health*

OH Learning, the hub for professional education in IH seeks to advance industrial hygiene worldwide. The modules cover recognition, evaluation and control as well as specialist topics like noise and ergonomics. As an approved course provider, Euro Safety and health can run any of the modules at your site.



## 11:00 A.M.-11:30 A.M.

**SR-103-02 Biological Uptake of Aromatic and Polycyclic Aromatic Hydrocarbons in Firefighters: Evidence of Dermal Absorption.** *K. Fent, NIOSH, Cincinnati, OH; J. Eisenberg, NIOSH, Cincinnati, OH; C. Mueller, NIOSH, Cincinnati, OH.*

## 11:30 A.M.-12:00 P.M.

**CS-102-03 Real World Isocyanate PBZ and Skin Exposure Assessment.** *N. Norman, Abhe & Svoboda, Inc, Prior Lake, MN.*

## 12:00 P.M.-12:30 P.M.

**Allergens: Sampling Strategies and Guidelines.** *H. Burge, EMLab P&K, San Bruno, CA.*

## RT201

**GAME CHANGERS IN INDUSTRIAL HYGIENE AIR SAMPLING**

## 10:30 A.M.-12:30 P.M. HBGCC 006 C-D

**Arranger:** *J. Quam, 3M Company, St. Paul, MN.* **Moderator:** *J. Quam, 3M Company, St. Paul, MN.* **Monitors:** *P. Owens, Shell Oil Company, Martinez, CA.*

Add some new tools to your IH toolbox, as we discuss new direct reading and lab-analyzed sampling, and analytical methods that can enhance how exposures are assessed.

- **Methods for the Measurement of Gas Phase Ethylene Oxide in Workplace Environments.** *B. Mader, 3M Company, St. Paul, MN.*
- **Needle Trap Sampling for Quantitative Assessment of Nearly Instantaneous Peak Standard Exposure Concentrations.** *P. Smith, USDOL-OSHA Salt Lake Technical Center, Sandy, UT.*
- **Comparison of Helium Diffusion Sampling to Other Sampling Methods.** *S. Bushell, 3M United Kingdom, Bracknell, UK.*
- **Real-time Ultraviolet Native-Fluorescence-Based Monitor Development and Validation of a Wearable.** *J. Snawder, NIOSH, Cincinnati, OH.*

## RT202

**PERSONAL PROTECTIVE EQUIPMENT SELECTION FOR OIL SPILL RESPONDERS - A LOOK AT API'S RECOMMENDED PRACTICE 98**

## 10:30 A.M.-12:30 P.M. HBGCC 007 A/B

**Arranger:** *V. Garner, SWS Environmental, Panama City Beach, FL.* **Moderator:** *D. DeBoo, Marathon Petroleum, Findlay, OH.* **Monitors:** *D. Newcomer, National Institutes of Health, Bethesda, MD; D. Raezer, Norplas Industries, Northwood, OH.*

This roundtable covers the following four main topics:

- » Hazards associated with oil spill response operations

- » Experiences and lessons learned in implementing Personal Protective Equipment programs during oil spill response operations

- » Effective job hazard analysis process
- » The development and contents of API's recommended Practice 98 document

- **Lessons Learned in Implementing Personal Protective Equipment Programs During Oil Spill Response Operations.** *T. Jordan, OSHA, Sandy, UT.*
- **Hazards Associated with Oil Spill Response Operations.** *C. Muzzy, MSRC, Edison, NJ.*
- **Effective Job Hazard Analysis Process.** *L. Weems, CTEH, North Little Rock, AR.*
- **The Development and Content of API's RP 98 Document.** *J. Husum, BP America, Houston, TX.*

## RT203

**TECHNOLOGICAL AND MANAGERIAL ASPECTS OF LARGE FACILITY DISMANTLEMENT, DEMOLITION, AND RETURN-TO-NEUTRAL ACTIVITIES**

## 10:30 A.M.-12:30 P.M. HBGCC 217 D

**Arrangers:** *S. Fess, Xerox Corporation, Webster, NY; T. Fuller, Illinois State University, Bloomington, IL.* **Moderator:** *M. Solitis, Hookstown, PA.* **Monitors:** *D. Maser, Enviroair Consultants, Inc., Chesterfield, MI; S. Fess, Xerox Corporation, Webster, NY.*

Dozens of power plants and other types of industrial facilities are being decommissioned, including numerous fossil fuel plants and 13 nuclear power plants currently on the Nuclear Regulatory Commission decommissioning list. We'll expand the discussion on the future of the challenging and growing field of industrial facility dismantlement from a safety perspective.

- **The Art of Demolition.** *T. Niedzwiecki, Environmental Remediation Services, Inc., Rotterdam, NY.*
- **Technical and Management Aspects of a Major Decontamination and Demolition Project.** *M. Zumbro, KEMRON Environmental Services, Marietta, OH.*
- **Controlled Implosion for Building and Facilities Demolition.** *D. Napier, DNA Industrial Hygiene, Manhattan Beach, CA.*
- **Power Plant Decommissioning and Dismantlement.** *G. Tulley, ZION Solutions LLC, Zion, IL.*

## RT204

**THE IMPORTANCE OF THE EVER EVOLVING AIHA VALUE STRATEGY: TO USE OR NOT TO USE, THAT IS THE QUESTION!**

## 10:30 A.M.-12:30 P.M. HBGCC 214 A

**Arrangers:** *G. Popov, UCM, Overland Park, KS; E. Biddle, West*

*Virginia University, Morgantown, WV.* **Moderator:** *G. Popov, UCM, Overland Park, KS.* **Monitors:** *D. Heidel, Edison, NJ; S. Gutmann, S. H. Gutmann Consulting, LLC, White Bear Lake, MN.*

Want to show your management the business value of your activities? Are you comfortable discussing the business value of your planned EHS risk interventions? Do you have an easy method to identify the best solution to eliminate or mitigate EHS risk based on business value? Learn all the ways the AIHA Value Strategy can be used to improve your work.

- **What the Value Strategy Was Then, Isn't What It Is Now.** *M. Brandt, Los Alamos National Laboratories, Los Alamos, NM.*
- **Why Use The Value Strategy in the Business World.** *S. Anderson, SGS, Pasadena, TX.*
- **Why Use the Value Strategy in the Academic World.** *J. Zey, University of Central Missouri, Warrensburg, MO.*
- **Next Steps for Using the Value Strategy.** *E. Biddle, NIOSH, Pittsburgh, PA.*

## RT206

**ISSUES AND CHALLENGES IN THE INDUSTRIAL HYGIENE PRACTICE IN LATIN AMERICA**

## 10:30 A.M.-12:30 P.M. HBGCC 212 A/B

A review of the current issues and challenges of industrial hygiene practices throughout Latin America. We'll examine the new work activities in each country, and the needs and future requirements for IH.

- **Issues and Challenges in Industrial Hygiene Practice in Colombia.** *W. Rodriguez, Intercon, Inc., Boca Raton, FL.*
- **Issues and Challenges in the Industrial Hygiene Practice in Brazil.** *M. Domingos, Doulos Ambiental, Sao Paulo, Brazil.*
- **Issues in the Industrial Hygiene Practice in Mexico: Health and Safety for Informal Work: Small and Medium Companies.** *J. Rodriguez, Analisis Ambiental S.A. de C.V., Mexico City, Mexico.*
- **Industrial Hygiene Practice in Panamá: Current Situation and Future Needs.** *E. Shaw, Panama Canal Authority, Panama.*
- **Central America and Caribbean, A Development Plan for the Industrial Hygiene Practice.** *R. Sosa, 3M Costa Rica, Heredia, Costa Rica.*

## SS001

**OCCUPATIONAL EXPOSURE BANDING: WHO IS USING IT AND HOW WELL CAN IT BE APPLIED?**

## 10:30 A.M.-12:30 P.M. HBGCC 217 A

**Arranger:** *S. Derman, Medishare Environmental Health & Safety Services, Cupertino, CA.* **Moderator:** *S. Derman,*



Medishare Environmental Health & Safety Services, Cupertino, CA. **Monitors:** S. Ripple, The Dow Chemical Company, Midland, MI; D. Heidel, Bureau Veritas North America, Inc., Edison, NJ.

This session examines:

- » The NIOSH Health Hazard Banding process designed to provide a process to create an estimated range of exposure and how consistently users apply the system
- » The scientific basis for implementing Hazard and Control Bands
- » Examples of where and how occupational exposure banding have been successfully used

• **Can the NIOSH Health Hazard Banding Decision Logic be Applied Consistently? A User's Preview.** L. McKernan, NIOSH, Cincinnati, OH.

• **Multidisciplinary Control Banding: Success in a Highly Regulated Environment.** D. Zalk, Lawrence Livermore National Laboratories, Livermore, CA.

• **Building Industrial Hygiene Consistency Through Qualitative Risk Assessment.** R. Kamerzell, Lawrence Livermore National Laboratories, Livermore, CA.

• **Development of a Hazards Control Tool Kit in the Oil & Gas Industry.** M. Phibbs, Chemscape, Calgary, AB, Canada.

## PO104

### INDUSTRIAL HYGIENE GENERAL PRACTICE II

10:30 A.M.-1:00 P.M.

HBGCC 007 C/D

**Moderator:** D. Day, Law, Sealed Air Corporation, Duncan, SC.

10:30 A.M.-11:00 A.M.

**CS-104-01 Control of Sweating from Chilled Water Pipes.** E. Light, Building Dynamics, LLC, Ashton, MD; J. Bailey, Building Dynamics, LLC, Ashton, MD; R. Gay, Building Dynamics, LLC, Ashton, MD.

11:00 A.M.-11:30 A.M.

**CS-104-02 The OEHS Pros of Tomorrow: Training at Your Alma Mater.** C. Briggs CIH, CET, ENVIRON International Corporation, Boston, MA.

11:30 A.M.-12:00 P.M.

**SR-104-03 Creating a Mathematical Noise Model.** R. Collins, Southwest Research Institute, San Antonio, TX.

12:00 P.M.-12:30 P.M.

**SR-104-04 Contribution of Non-HEPA Preliminary Filters to the Efficiency and Life-Span of HEPA Filters in Reducing Cadmium Contaminated Emissions and Respirable Particles.** K. Smigielski, University of Toledo, Toledo, OH; F. Akbar-Khanzadeh, University of Toledo, Toledo, OH.

12:30 P.M.-1:00 P.M.

**CS-104-05 EPA Guidance for Determining Organic Vapor Cartridge Service Life for NIOSH-Approved Respirators.** A. Lamba, US Environmental Protection Agency, Washington, DC; G. Wood, GerryOdell Consulting, Los Alamos, NM.

## RT205

### THE IH CHALLENGE: DO ACADEMIC, BUSINESS, POLITICAL AND PROFESSIONAL NEEDS ALIGN?

10:30 A.M.-1:00 P.M.

HBGCC 207

**Arranger:** W. Cyr, Cardno ChemRisk, San Francisco, CA.

**Moderator:** C. Elish, Euless, TX. **Monitor:** M. Terrell, E & J Gallo Winery, Modesto, CA.

AIHA is celebrating 75 years since it was founded in 1939, and the discipline of industrial hygiene has evolved over that time. We'll profile how improvements in sampling capabilities and shifts in academic, business, political and professional needs have influenced the evolution of our profession from its roots in public health a century ago.

• **This is Not Your Father's Sampler!** M. Harper, NIOSH, Morgantown, WV.

• **Practicing IH at the Plant Level: Infusing the Art into the Science.** P. Paulus, Delphi Corporation, Kokomo, IN.

• **Reflections on the Development of Hazard Communication – from RTK to GHS.** D. Deeds, Industrial Health & Safety Consultants, Inc., Shelton, CT.

• **Impact of the Evolving Regulatory Environment on IH.** D. Paustenbach, Cardno ChemRisk, San Francisco, CA.

• **Key Professional Drivers, Their Convergence, and Their Promise.** C. Laszcz-Davis, The Environmental Quality Organization, LLC, Lafayette, CA.

## CR303

### CHALLENGING INCIDENT INVESTIGATION PARADIGMS

11:30 A.M.-12:30 P.M.

HBGCC 202

**Presenter:** D. Martin, BST, Ojai, CA.

This session discusses limitations of the current paradigms around incident reporting and the need to shift our thinking around incident investigations in light of new researching findings in casual factors of SIFs.

Full session descriptions on the AIHce Mobile App.



## WRAPPING UP PHARMACEUTICAL WASTE

11:30 A.M.-12:30 P.M.

HBGCC 213

**Presenter:** A. McNair, The University of Texas System, Austin, TX.

This session explains how one pharmacy examined their waste pharmaceuticals considered RCRA hazardous, used process analysis and regulatory exemptions to reclassify the site, and eliminated significant regulatory requirements.

## SP03

### JEFFREY S. LEE AWARD LECTURE: A 30+ YEAR PERSPECTIVE ON CERTIFICATION

12:30 P.M.-1:30 P.M.

HBGCC 203

**Presenter:** Lynn C. O'Donnell, CIH, Executive Director, American Board of Industrial Hygiene (ABIH)

Lynn O'Donnell has been involved with ABIH certification from achieving her own CIH in 1981 through serving six years on the ABIH Board of Directors and then as Executive



Director for 33+ years. She will discuss the evolution of the CIH certification process and her efforts in streamlining the process. She will highlight the worldwide recognition associated with CIH

certification and discuss her perspective on the dramatic changes that have taken place in the certification world during her tenure. Finally, she will look to the future of CIH certification, in light of the ever increasing challenges to administer a high quality process and remain relevant. O'Donnell's experience with the ABIH certification process have made her uniquely qualified to pass the torch on what has become the gold standard of industrial hygiene – CIH certification. O'Donnell will retire from ABIH at the end of June 2014.

## IL02: LUNCHEON DISCUSSION

### UNSOLVED IH MYSTERIES WORKSHOP

(Pre-registration fee required)

12:30 P.M.-2:00 P.M.

HBGCC 201

Test your knowledge! Actual IH case studies are worked through in this team challenge. Participants are given all the data — players, circumstances, timelines — but not the outcomes. At the end of the session, the facilitator explains what actually occurred.

## IL08

### STUDENT AND EARLY CAREER PROFESSIONAL TABLE TOPICS

1:00 P.M. – 2:00 P.M.

#### HBGCC Expo Halls C&D

- **Breaking Down Barriers**, C. Hovde, Caterpillar Inc., Peoria, IL
- **Career Paths**, C. Hanko, Chandler, AZ; N. Lawrence, Embry-Riddle Aeronautical University, Daytona Beach, FL; and members of Fellows SIG
- **CIH Exam 101**, N. Greeson, Duke University, Hillsborough, NC and Roger Smith, ABIH, Lansing, MI
- **IH in an EHS World**, K. Schmid, Praxis, Jordan, MN
- **Field Work & Travel for the IH**, C. Hoehn, Praxis, Blaine, MN and J. Sheffer, ExxonMobil, Houston, TX
- **Networking for the IH**, C. Elish, Eules, TX

## RT218

### OHLEARNING.COM - MORE PRACTICAL BASED ADVICE FROM TRAINING PROVIDERS

1:00 P.M. – 3:00 P.M.

#### HBGCC 213

**Arranger:** L. Renton, WESA, a BluMetric Company, Ottawa, ON. **Moderator:** S. Samuel, Suncor, Calgary, AB. **Monitors:** T. Paz, Department of Veterans Affairs, Alexandria, VA; M. Slater, Diamond Environmental, Chester.

There is an increased recognition that courses available on OHLearning.com are valuable, especially in the absence of other occupational hygiene training and learning opportunities in developing countries, where global companies are expanding and there is a lack of experienced resources. This session brings together four OHTA-approved training providers with their stories of course delivery in English and non-English speaking countries with the successes and challenges that ensue.

- **Training Experience to Date: Includes Asia Pacific.** J. Singh, JAS International LLC, Kamuela, HI.
- **More Perspectives on Delivering OHLearning courses in El Salvador and France.** M. Crepeau, WESA, a BluMetric Company, Ottawa, ON, Canada.
- **Presenting W201 in English in Other Countries.** L. Renton, WESA, a BluMetric Company, Ottawa, ON, Canada.
- **Pharma Company Experience Empowering HSE Staff Worldwide With OHLearning.com Courses.** F. Parrot, Sanofi, Gentilly, France.

## RT207

### MOCK TRIAL: IH EVIDENCE ADMISSIBILITY AND PROOF OF CAUSATION

1:00 P.M.-5:00 P.M.

#### HBGCC 206

**Arranger:** K. Dreger, LLNL, Livermore, CA. **Moderator:** S. Celly, Celly Services, Inc., Long Beach, CA. **Monitors:** Z. Islam, LLNL, Livermore, CA; S. Sherman, US Department of State, Rockville, MD.

Mock Trial proceedings will be used to demonstrate to IHS the importance their data and reports might play in a dispute, and to offer suggestions on how to record and maintain IH data and results so they are admissible as evidence in a legal proceeding.

**Judge—**D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA.

**Plaintiff's Counsel—**K. Dreger, LLNL, Livermore, CA.

**Defense Counsel—**M. Norman, Law Offices of Margaret Norman, Manhattan Beach, CA.

**Plaintiff—**E. Erikson, Guida, Slavich, & Flores, PC, Dallas, TX.

**Defendant—**D. Napier, DNA Industrial Hygiene, Manhattan Beach, CA.

**Expert Witness Chemist—**D. Napier, DNA Industrial Hygiene, Manhattan Beach, CA.

**Expert Witness IH—**D. Zalk, LLNL, Livermore, CA.

## PO105

### HEARING CONSERVATION I

1:30 P.M.-4:30 P.M.

#### HBGCC 205

**Arranger:** J. Kunz, 3M, St. Paul, MN. **Moderator:** C. Johnson, IBG EHS, 3M, St. Paul, MN. **Monitors:** Q. Coleman, Safex, Columbus, OH; L. Banks, Olympia, WA.

1:30 P.M.-2:00 P.M.

#### Safe in Sound Award

2:00 P.M.-2:30 P.M.

**SR-105-06 Hearing Conservation Regulations: A World View.** L. Wells, 3M, St. Paul, CO.

2:30 P.M.-3:00 P.M.

**SR-105-03 A Practical Comparison of Occupational Noise Standards & Regulations.**

J. Tingay, Cirrus Research plc, Hunmanby, United Kingdom; J. Griggs, Occupational Health Dynamics LLC, Birmingham, AL.

3:00 P.M.-3:30 P.M.

**SR-105-04 The Department of Defense Epidemiologic and Economic Burden of Hearing Loss Study: Preliminary Results on Economic Burden.** H. Alamgir, University of Texas School of Public Health, San Antonio, TX; J. Betancourt, University of Texas School of Public Health, San Antonio, TX; D. Tucker, DOD Hearing Center of Excellence, San Antonio, TX; D. Doughrate, University of Texas School of Public Health, San Antonio, TX; S. Cooper, University of Texas School of Public Health, San Antonio, TX; K. Whitworth, University of Texas School of Public Health, San Antonio, TX; N. Gorrell, University of Texas

School of Public Health, San Antonio, TX; D. Marko, University of Texas School of Public Health, San Antonio, TX; T. Hammill, DOD Hearing Center of Excellence, San Antonio, TX; A. Senchak, Walter Reed National Otolaryngology, Bethesda, MD; M. Packer, DOD Hearing Center of Excellence, San Antonio, TX.

3:30 P.M.-4:00 P.M.

**SR-105-05 Quantifying the Value of a Field Attenuation Estimation System (FAES) to Measure Hearing Protector Attenuation and Provide Training for Manufacturing Workers.** P. Smith, 3M Company, St. Paul, MN.

4:00 P.M.-4:30 P.M.

**SR-105-06 Attenuation Characteristics of Fit-Compromised Earmuffs and Various Non-standard Hearing Protectors.** L. Wells, 3M, St. Paul, MN; E. Berger, 3M, Indianapolis, IN; R. Kieper, 3M, Indianapolis, IN.

## RT208

### PERSPECTIVES ON PREPARATION FOR THE CIH EXAM V9.0

1:30 P.M.-5:00 P.M.

#### HBGCC 214 D

**Arranger:** C. Ficklen, SQA2, Inc., Yorktown, VA. **Moderator:** J. Gifford, Genesis Energy, L.P., Houston, TX. **Monitors:** A. Fleeger, ExxonMobil Corporation, Houston, TX; B. Geyer, NASA Agency Occupational Health, Kennedy Space Center, FL.

For IHS, the most recognized professional credential is the Certified Industrial Hygienist (CIH) obtained through ABIH. The roundtable will cover requirements to sit for the exam and information on preparation strategies, including self-assessment, gathering study materials, forming a gameplan, and getting mentally focused for the exam. The session will benefit students entering the profession, current professionals working to obtain the CIH, and their employers. This session is not intended to take the place of an exam review course.

- **Just the Facts - Requirements to Sit for the Exam and the Exam Blueprint.** L. O'Connell, ABIH, Lansing, MI.
- **Preparing for the CIH When Life Happens.** S. Paradis, 3M, St. Paul, MN.
- **Paula's CIH Boot Camp: 30 days to a Better Score.** P. Steven, U.S. Army MEDCOM, APG, MD.
- **The Long and Winding Road of CIH Exam Preparation.** W. Cyrs, Cardno Chemrisk, San Francisco, CA.
- **If at First You Don't Succeed.....** J. Wallace, Woodard & Curran, Portland, ME
- **Excel-erate Your Route to the CIH Designation - A Planning & Tracking Tool That Gets Results.** T. Paz, Department of Veterans Affairs, Washington, DC.
- **The CIH Experience ... An Early Stop on a Long Road to a Successful EHS Career.** C. Ficklen, SQA2, Inc., Yorktown, VA.

## CR305

### SUCCESS FACTORS IN FALL PROTECTION

2:00 P.M.-3:00 P.M.

HBGCC 214 B

**Presenter:** W. Parsons, Parsons Engineering Group, Toronto, ON, Canada. **Moderator:** P. Zoubek, Zoubek Consulting Inc., San Diego, CA

Using real-life examples, this presentation will explore component strength, equipment performance and worker and supervisor knowledge as the primary factors that produce successful fall protection when working at height.

## CR306

### THE \$13 BILLION CASE FOR SAFETY CULTURE IN HEALTHCARE

2:00 P.M.-3:00 P.M.

HBGCC 212 A/B

**Presenter:** S. Harris, UL Workplace Health and Safety, Franklin, TN.

Worker injuries cost the healthcare industry at least \$13 billion and two million lost work days per year. Affecting 12% of the U.S. workforce, some of the highest injury rates in the nation and increasing costs and OSHA scrutiny, the case for safety culture as the sustainable solution is compelling.

## RT209

### PCBS IN CONSTRUCTION: UPDATE FOR AN EMERGING ISSUE

2:00 P.M.-4:30 P.M.

HBGCC 007 A/B

**Arranger:** D. Woody, Environmental Remediation Services, Inc., Schenectady, NY. **Moderator:** S. Fess, Xerox Corporation, Webster, NY. **Monitors:** R. Suga, Knoxville, TN; S. Mahoney, Con Edison of NY, Inc., Bronx, NY.

The presence of PCBs in caulking and other building materials is a worldwide public health concern in both public and commercial buildings, with almost half of all concrete/masonry buildings constructed between 1955 and 1975 having PCB-containing joint sealants and caulking. Learn about current outlooks for this sustaining issue.

- **Handling PCBs in Building Materials.** D. Woody, Environmental Remediation Services, Inc., Schenectady, NY.
- **Global Impact of the New York PCB Investigations.** R. Herrick, Harvard School of Public Health, Boston, MA.
- **Health Effects of PCBs in the Indoor Environment.** D. Carpenter, Institute for Health and the Environment University of Albany, Rensselaer, NY.
- **PCBs in the Construction Environment: History and Use.** R. Adams, ENVIRON International Corp., Princeton, NJ.

## P0108

### IAQ CASE STUDIES (4)

2:00 P.M.-4:30 P.M.

HBGCC 217 D

**Arranger:** E. Sobek, Assured Bio Labs, LLC, Oak Ridge, TN. **Moderator:** D. Weekes, InAir Environmental Ltd, Ottawa, ON, Canada. **Monitors:** L. Nguye Weekes, InAIR Environmental Ltd., Ottawa, ON, Canada; R. Miller, Argus Environmental Consultants, San Antonio, TX.

2:00 P.M.-2:30 P.M.

### SR-108-02 Exposure Assessment of Carbon Monoxide From Stored Wood Pellets Using a Kinetic Model for Off-Gassing Emissions.

A. Rossner, Clarkson University, Potsdam, NY; X. Huang, Clarkson University, Potsdam, NY; L. Soto-Garcia, Clarkson University, Potsdam, NY; P. Hopke, Clarkson University, Potsdam, NY.

2:30 P.M.-3:00 P.M.

### SR-108-03 Interesting Lessons Learned from Indoor Air Quality Investigations.

D. Peters, Environmental Health Management, Louisville, KY.

3:00 P.M.-3:30 P.M.

### SR-108-04 Thermal Environment Assessment in a High School During Winter.

F. Akbar-Khanzadeh, H. Moreer, A. Ames, S. Milz, J. Scardina, A. Doerr, G. Heldt, M. Valigosky, D. Bourland, V. Sigler, University of Toledo, Toledo, OH

3:30 P.M.-4:00 P.M.

**SR-108-05 An Indoor Air Quality Exposure Assessment Evaluating the Off-Gassing of VOCs From Indoor Bulk Wood Pellet Storage.** A. Rossner, Clarkson University, Potsdam, NY; W. Ashley, Clarkson University, Potsdam, NY; J. Harrington, Restek Corporation, Bellefonte, PA; X. Huang, Clarkson University, Potsdam, NY; P. Hopke, Clarkson University, Potsdam, NY.

4:00 P.M.-4:30 P.M.

### CS-108-06 Malodor Due to an Aliphatic Tertiary Amine at a Hotel: An Unlikely Source.

J. Kominsky, Environmental Quality Management, Inc., Cincinnati, OH.

## P0106

### EVOLUTION OF ERGONOMICS: ASSESSMENT, PREVENTION, IMPROVEMENT AND LESSONS LEARNED

2:00 P.M.-5:00 P.M.

HBGCC 006 A/B

**Arranger:** A. Dartt, Fort Collins, CO. **Moderator:** A. Dartt, Fort Collins, CO. **Monitor:** B. Finder, University of Wisconsin-Stout, Menomonie, WI. C. Brigham, 1 Souce Safety and Health, Exton, PA

2:00 P.M.-2:30 P.M.

### SR-106-01 Musculoskeletal Disorders in Texas and the United States, a Descriptive Study.

M. Cook, Center for Health Statistics, Texas Department of State Health Services, Austin, TX; S. Cooper, University of Texas Health Science Center School of Public Health, San Antonio, TX; S. Prosperie, Center for Health Statistics, Texas Department of State Health Services, Austin, TX; R. Collins, University of Texas Health Science Center School of Public Health, San Antonio, TX.

2:30 P.M.-3:00 P.M.

### SR-106-02 Effects of Force and Repetition on Inflammation during Eccentric Muscle Contractions. S. Gallagher, Auburn University, Auburn, AL.

3:00 P.M.-3:30 P.M.

### CS-106-03 Early Intervention and Ergonomics: A Blended Approach to Prevent Injuries.

T. Silva, Atlas Ergonomics, Grand Haven, MI.

3:30 P.M.-4:00 P.M.

### CS-106-04 A Case Study of Possible Improvements to the AIHA Ergonomics Toolkit.

J. Ketzler, Auburn University, Auburn, AL; R. Sesek, Auburn University, Auburn, AL; R. Thomas, Auburn University, Auburn, AL; S. Gibson, Ergonomics Applications, Inc., Salem, SC.

4:00 P.M.-4:30 P.M.

**CS-106-05 Evolution of an Office Ergonomics Program: Lessons Learned.** K. Grasteffon, Humantech, Inc., Ann Arbor, MI.

4:30 P.M.-5:00 P.M.

**CS-106-06 Evaluating Existing Safe Patient Handling Programs: Key Learnings and Pointers.** E. Condie, RMIT University, Melbourne, VIC, Australia.

## P0107

### EXPOSURE ASSESSMENT STRATEGIES: MORE TOOLS FOR THE TOOLBOX

2:00 P.M.-5:00 P.M.

HBGCC 217 B-C

**Arranger:** A. Weikert, WLGore, Elkton, MD. **Moderator:** K. Wallace, Medicine & Occupational Health, Exxon Mobil Corporation, Houston, TX. **Monitor:** P. Aigeldinger, Elkton, MD.

2:00 P.M.-2:30 P.M.

### SR-107-01 QUAL Check: A Novel Qualitative Exposure Assessment Checklist Tool.

M. Stenzel, Exposure Assessment Applications, LLC, Washington, DC; S. Arnold, University of Minnesota, Minneapolis, MN.



## 2:30 P.M.-3:00 P.M.

**SR-107-02 A Comparison of the  $\beta$ -substitution Method and a Bayesian Approach for Handling Left-Censored Data.** *T. Huynh, S. Banerjee, G. Ramachandran, C. Groth University of Minnesota, Minneapolis, MN; H. Quick, University of Missouri-Columbia, Columbia, MO; M. Stenzel, Exposure Assessment Application, Arlington, VA; R. Kwok, National Institute of Environmental Health Sciences, Research Triangle Park, MN; P. Stewart, Stewart Exposure Assessments, Arlington, VA.*

## 3:00 P.M.-3:30 P.M.

**SR-107-03 Regression Analysis of Exposure Data in the Presence of Detection Limits.** *T. Mathew, University of Maryland Baltimore County, Baltimore, MD; K. Krishnamoorthy, University of Louisiana at Lafayette, Lafayette, LA.*

## 3:30 P.M.-4:00 P.M.

**CS-107-04 Surrogate Monitoring for High Potent Active Pharmaceutical Ingredients (HPAPIs).** *J. Fruehbrodt, University of Alabama at Birmingham, Birmingham, AL; P. Morris, Evonik Industries, Birmingham, AL; D. Janecek, Evonik Industries, Birmingham, AL.*

## 4:00 P.M.-4:30 P.M.

**CS-107-05 Modeling Benzene Exposure from Wax Wash.** *F. Boelter, J. Persky, ENVIRON International, Chicago, IL.*

## 4:30 P.M.-5:00 P.M.

**CS-107-06 Tracer Gas Exposure of Manikins and Human Subjects at a Benchtop Enclosing Hood in a Wind Tunnel.** *R. Carreno-Chavez, Caribbean University, Bayamon, PR; S. Guffey, West Virginia University, Morgantown, WV.*

## RT210

**APPLICATIONS (AND MISAPPLICATIONS) OF PERSONAL PROTECTIVE EQUIPMENT IN NON-U.S. FACILITIES**

## 2:00 P.M.-5:00 P.M. HBGCC 007 C-D

**Arranger:** M. Andrew, Sumerra, Portland, OR. **Moderator:** M. Roe, 3M Company, St. Paul, MN. **Monitors:** K. Garg, U.S. Department of Veterans Affairs, Tacoma, WA; L. Stiles, Sandia National Labs, Albuquerque, NM.

This roundtable will examine the challenges faced in implementing effective global PPE programs and the technical aspects, including intended use and capabilities of PPE, such as carbon-loaded disposable respirators. Practitioners will present observational case studies on the prevalence of misuse of PPE and opportunities for improvements.

- **Implementation of a Personal Protective Equipment Program in the Asia Pacific Region.** *L. Anderson, Golder Associates, Wexford, PA.*
- **Misapplication of Non-Respirator Facemasks for Worker Protection in Asia**

**Pacific Region.** *M. Andrew, Sumerra, Portland, OR.*

- **Carbon-Loaded Disposable Respirators: Intended Use and Capabilities.** *E. Johnson, 3M Personal Safety Division, St. Paul, MN.*
- **Misuse of Respiratory Protection Factors.** *J. Singh, JAS International LLC, Kamuela, HI.*
- **Safety Eyewear: Understanding Global Standards and Challenges in Selection Based on Hazard Assessments.** *D. Rust, 3M, St. Paul, MN.*
- **Challenges of Implementing a PPE Program in Middle East with a Multicultural Workforce.** *C. Sall, Emirates Nuclear Energy Corporation, Abu Dhabi, United Arab Emirates.*

## RT211

**LESSONS LEARNED IN LABS: CREATING CHALLENGING CHANGES AND INITIATIVES TO IMPROVE INTERRELATIONSHIPS (L3 C3 I3)**

## 2:00 P.M.-5:00 P.M. HBGCC 006 C/D

**Arrangers:** J. Klane, Arizona State University, Tempe, AZ; L. Wong, University of California Office of the President, Oakland, CA. **Moderator:** L. Wong, University of California Office of the President, Oakland, CA. **Monitors:** R. Lally, University of California - Irvine, Irvine, CA; D. Hurley, KABA Access Systems, Winston-Salem, NC.

The challenges of creating significant, meaningful and sustained changes to improve safety in labs throughout academia are ongoing. Recent tragedies continue to resonate and affect how EHS, researchers and faculty view and implement safety in an effective manner. This roundtable will explore several of the varied ways in which this is playing out in higher education.

- **Lessons Learned @ TTU.** *A. Young, Texas Tech University, Lubbock, TX.*
- **Changing the Safety Culture at UCLA: A Faculty View.** *C. Merlic, University of California, Los Angeles, CA.*
- **Got PPE? Creating a Responsive and Sustainable University of California System-Wide PPE Program.** *K. Smith, University of California Office of the President, Oakland, CA.*
- **Hazards, What Hazards? How to Implement an Effective Laboratory Hazard Assessment Program and What It Can Do for EH&S, Faculty, Research Directors, and Laboratory Personnel.** *C. Merlic, University of California, Los Angeles, CA.*
- **Make It or Break It: The Effects of Interpersonal Communication on Your Campus EHS Program.** *J. Klane, Arizona State University, Tempe, AZ.*

## RT212

**MANAGING RADIATION SAFETY PROGRAMS AND ANNUAL TRIBUTE TO HERMAN CEMBER, PhD**

## 2:00 P.M.-5:00 P.M. HBGCC 202

**Arranger:** R. Johnson, Radiation Safety Counseling Institute, Rockville, MD. **Moderator:** J. Kenoyer, Oak Ridge, TN. **Monitors:** C. Richards, S.C. Johnson - A Family Company, Racine, WI; C. Gregory, Baxter Healthcare Corp., Round Lake, IL.

A panel of five career radiation safety specialists will share insights from their practical experience. A special memorial lecture to honor Herman Cember, PhD, for his 60-year career in teaching industrial hygienists and health physicists for better understanding of radiation will also take place.

- **How Synergism Between Industrial Hygiene and Radiation Safety Programs Can Make Both Programs Stronger.** *S. Bump, Dade Moeller, Richland, WA.*
- **Integrated Safety & Security Culture Practices for Facilities Using Radiation.** *J. Lewis, Maryland Department of the Environment, Baltimore, MD.*
- **The Inside Track on Radiation Dose Assessment.** *B. Thomas, Integrated Environmental Management, Inc., Findlay, OH.*
- **Challenges of Multi-Jurisdictional Radiation Safety Programs.** *R. Costello, W.L. Gore and Associates, Elkton, MD.*
- **Interpretation of Radiation Measurements and Tribute to Herman Cember, PhD.** *R. Johnson, Radiation Safety Counseling Institute, Rockville, MD.*

## RT213

**STATE OF KNOWLEDGE OF GOVERNMENTAL RESEARCH AND REGULATORY ACTIONS REGARDING 1-BROMOPROPANE**

## 2:00 P.M.-5:00 P.M. HBGCC 207

**Arranger:** S. Dotson, NIOSH, Cincinnati, OH. **Moderator:** M. Hatch, USDOL/OSHA, Arlington, VA.

This roundtable will highlight key research and policy efforts associated with 1-BP being conducted by numerous governmental agencies. Specific topics covered will include:

- » Overview and history of 1-BP use in commerce
- » Non-cancer and cancer health endpoints associated with 1-BP
- » Regulation of 1-BP in occupational and environmental settings, and
- » Risk assessment activities for 1-BP.
- » Overview of the history, use and health concerns associated with 1-Bromopropane

- **Exposure to 1-Bromopropane from Foam Adhesives and Vapor Degreasing Solvents and Urinary Metabolites: Overview of NIOSH Field Studies.** *K. Hanley, CDC/NIOSH, Cincinnati, OH.*
- **OSHA Activities Associated with 1-Bromopropane.** *V. Schaeffer, US Occupational Safety and Health Administration, Washington, DC.*
- **Cancer Evaluation of 1-Bromopropane by the National Toxicology Program.** *D. Spencer, NIEHS, Research Triangle Park, NC.*
- **NIOSH Quantitative Risk Assessment for 1-Bromopropane.** *D. Dankovic, CDC/NIOSH, Cincinnati, OH.*

## RT214

### WELDING FUME EXPOSURE STUDIES

2:00 P.M.-5:00 P.M.

HBGCC 217 A

**Arranger:** A. Siert, Xcel Energy, Denver, CO. **Moderator:** J. Spear, J.E. Spear Consulting, LP, Magnolia, TX. **Monitors:** F. Anderson, San Antonio, TX; B. Stott, AMEC Oil & Gas Canada, Calgary, AB.

Welders comprise one of the largest working populations, and fume exposures are of concern as welders experience higher rates of

respiratory illness and cancer. This session explores opportunities to optimally select processes and utilize controls to reduce exposures, such as fume generation studies and field exposure assessments.

- **Minimum Data Quality Objectives When Sharing Welding Fume Sampling Data.** *J. Spear, J.E. Spear & Associates, Magnolia, TX.*
- **Current NIOSH Welding Research on Welding Processes, Helmets, and Fume Sampling.** *M. Keane, NIOSH, Morgantown, WV.*
- **Hexavalent Chromium Exposure Reduction Project at a Diesel Emissions Reduction System Manufacturing Site.** *M. Bishop, Cummings, Inc., Columbus, IN.*
- **P91 (9% Chromium) Welding and Exposure Assessment in Electric Power Generation.** *S. Woods, Xcel Energy, Denver, CO.*
- **Shielded Metal Arc Welding Exposures in Electric Power Generation.** *A. Siert, Xcel Energy, Denver, CO.*

## CR307

### CONFINED SPACE ENTRY: WHAT HAVE WE LEARNED IN 20 YEARS?

3:30 P.M.-4:30 P.M.

HBGCC 214 A

**Presenter:** N. Pearce, National Fire Protection Association, Quincy Ma, MA.

OSHA's confined space entry standard has been in effect for more than 20 years, yet on average, 100 workers per year still die in confined spaces. Learn how to participate in the NFPA best practices guide document development process and view all documents online free of charge.

## CR308

### PREVENTING HEALTHCARE JOB INJURIES THROUGH DESIGN

3:30 P.M.-4:30 P.M.

HBGCC 214 C

**Presenter:** C. Wolter, EORM, San Jose, CA.

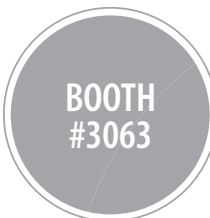
This session will cover how prevention through design can be applied to two of the greatest health risks in a hospital setting: repetitive motion injuries and chemical exposure.

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Sample Method Comparison	VERIAIR FLEX	VERIAIR FLEX TEDLAR	STANDARDS TEDLAR BAG	CANISTER
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Ready to sample anytime, anywhere - NO preparation needed	yes	yes	no	no
Can be air shipped when filled with sample (up to 33,000 feet)	yes	no	no	yes
Ability to sample with a detector tube or portable instrument before sending to lab	yes	yes	yes	no
Off-site sample analysis can be performed with no dilution gas or volume calculations	yes	yes	yes	no
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# Tuesday At-a-Glance

## TUESDAY, JUNE 3

7:00 a.m. – 5:30 p.m.

Registration, *HBGCC, East Registration*

7:30 a.m. – 5:30 p.m.

Speaker Ready Room, *HBGCC, 209*

Press Room (Registered Media Representatives ONLY), *HBGCC, Bridge Hall*



8:00 a.m. – 9:00 a.m.

### GENERAL SESSION

SP04 Evolution & Journey to a Safer Tomorrow

John Howard, MD, MPH, JD, LL.M.,  
Director, NIOSH, Washington, DC

*HBGCC, Grand Ballroom C*

8:00 a.m. – 4:00 p.m.

Career Advantage Development Fair 2014,  
*HBGCC, Bridge Hall*

9:00 a.m. – 3:30 p.m.

### EXPO

Passport to Prizes, Expo Learning Pavilion, Special Displays, Cyber Center, Restaurants, Lounges. Join us for Coffee and Danish at 9:00 a.m. No sessions scheduled 9:00 a.m. – 10:30 a.m. and 12:30 p.m. – 2:00 p.m.

9:00 a.m. – 3:00 p.m.

### POSTER SESSIONS

Expo

- **PS 403** Authors present 10:00 a.m. – Noon
- **PS 404** Authors present 1:00 p.m. – 3:00 p.m.

9:30 a.m. – 1:30 p.m.

Exhibitor Product Demos and Presentations,  
*Expo Learning Pavilion, Expo, sponsored by Arizona Instrument, LLC*

10:00 a.m. – 11:00 a.m.

- **CR309** Effective EHS Metrics Reviews – How to Maximize Engagement and Maintain a Repeatable EHS Operating Rhythm, *HBGCC, 217D*
- **CR310** Safety Lessons at Sea: Acting on Leading Indicators to Protect Your Mission, *HBGCC, 214B*

10:00 a.m. – 12:30 p.m.

- **RT215** History of Industrial Hygiene & Occupational Safety: The Building Blocks for the Future of IH/OSH, *HBGCC, 006A/B*
- **RT216** Occupational Exposure Banding – The Future is NOW!, *HBGCC, 006C/D*

10:30 a.m. – 11:30 a.m.

- **IL03** Ask the Expert with Dr. John Howard, *HBGCC, 214C*
- **SP05** 14th Annual Upton Sinclair Memorial Lecture for Outstanding EHS Investigative Reporting: The Hidden Dangers at Work, *HBGCC, 007A/B*

10:30 a.m. – 12:30 p.m.

- **P0109** Healthcare Industries I: Infection Control Issues, *HBGCC, 007C/D*
- **P0110** Laboratory Health and Safety, *HBGCC, 214A*
- **P0111** Stewardship and Sustainability: Lessons from the Real World, *HBGCC, 213*
- **P0112** Computer Applications, *HBGCC, 205*
- **RT217** Implementing a Personal Protective Equipment (PPE) Decontamination Program, *HBGCC, 008*
- **RT219** Oil & Gas Operations: The Practice of IH in Culturally and Environmentally Sensitive or Remote Locations Outside the U.S. – Challenges and Successes, *HBGCC, 217A*
- **RT220** The Power of IH Employee Involvement Team – Creating a H&S Culture, *HBGCC, 206*
- **SP08** ABIH Forum, *HBGCC, 202*

10:30 a.m. – 1:00 p.m.

- **RT221** Responsible Management of Nanomaterials: An Update from NIOSH, *HBGCC, 217B/C*

11:00 a.m. – 12:00 p.m.

- **SP15** Pandemic Preparedness – Respirator Supply Issues, *HBGCC, 214D*

11:30 a.m. – 12:30 p.m.

- **CR311** Applying Safety & Environmental Management Systems Models to Managing Workplace Ergonomics Programs, *HBGCC, 207*
- **CR312** Shifting Times – Learning to Minimize the Impacts of Shift Work on Your Workforce, *HBGCC, 217D*

12:30 p.m. – 1:30 p.m.

NIOSH Tech Talks: Current Topics,  
*HBGCC, Expo*

- **SP06** William P. Yant Award Lecture – Standing, Sitting, and Watching People Work: How a Gender Analysis Can Help Ergonomists Understand the Effects of Working Postures, *HBGCC, 203*

12:30 p.m. – 2:00 p.m. (Pre-registration fee required)

- **IL04** Unsolved IH Mysteries Workshop, *HBGCC, 201*

1:30 p.m. – 4:30 p.m.

**TT-01** Toyota Motor Manufacturing Texas (TMMTX) Plant, (Pre-registration fee required)  
*Bus departs Hyatt, Market Street, at 1:15 p.m.*

- **P0114** Changes in Construction & Confined Space Safety, *HBGCC, 006C/D*

1:30 p.m. – 5:00 p.m.

- **P0118** Safety Issues, *HBGCC, 214B*
- **P0113** Aerosols I, *HBGCC, 006A/B*
- **RT222** Managing Occupational Health Risk in Pharmaceutical Industries in Emerging Economies, *HBGCC, 212A/B*

2:00 p.m. – 3:00 p.m.

- **CR313** Risk Management Systems 4.0: Integrating ISO 22301, 14001, and 31000, *HBGCC, 217D*
- **CR314** Use Your Interpersonal Communication Skills for Improved Safety!, *HBGCC, 213*

2:00 p.m. – 3:30 p.m.

- **P0115** Real Time Detection Systems I, *HBGCC, 214A*

2:00 p.m. – 4:30 p.m.

- **P0116** Occupational and Environmental Epidemiology, *HBGCC, 202*
- **P0117** Respiratory Protection I, *HBGCC, 214D*
- **P0119** Specialty Building IAQ, *HBGCC, 007A/B*

2:00 p.m. – 5:00 p.m.

- **RT223** Accuracy of Professional Judgment: Air, Dermal, and Noise Exposure Assessment, *HBGCC, 007C/D*
- **RT224** Management of Change (MOC) in Research and Development Environments, *HBGCC, 205*
- **RT225** The Real World: Industrial Hygiene, *HBGCC, 207*
- **RT226** Nonionizing Radiation Thermal Stress Roundtable, *HBGCC, 008*
- **S5002** Occupational and Community Health Issues Associated with Hydraulic Fracturing Operations, *HBGCC, 217B/C*

2:30 p.m. – 4:00 p.m.

- **IL05** Ignite “Enlighten me but make it quick!”, *HBGCC, 217A*



3:30 p.m. – 4:30 p.m.

- **CR315** Development of New Risk Assessment Tools: Practical Applications, *HBGCC, 206*
- **CR316** The Hidden Million-Dollar Liability: Non-Liquid PCBs, *HBGCC, 217D*

## AIHA

9:30 a.m. – 10:30 a.m.

Content Portfolio Management Team Meeting,  
*Hyatt, Bonham C, Level 3*

Volunteer Red Carpet Club, *HBGCC, Bridge Hall*

10:30 a.m. – 11:30 a.m.

Publications Committee, *HBGCC, 215*

10:30 a.m. – 12:30 p.m.

Confined Spaces Committee, *Hyatt, Bowie A, Level 2*

Construction Committee, *Hyatt, Bonham D, Level 3*

Hazard Prevention and Engineering Controls Committee, *Hyatt, Crockett D, Level 4*

Indoor Environmental Quality Committee,  
*Hyatt, Bowie B, Level 2*

# Tuesday At-a-Glance

Occupational and Environmental Medicine Committee, *Hyatt, Travis A, Level 3*  
Toxicology Committee, *Hyatt, Mission B, Level 2*

**11:00 a.m.-12:30 p.m.**

Student Local Sections Council Business Meeting, *Hyatt, Seguin A, Level 4*

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

Violet Council, *Hyatt, Travis B, Level 3*

Asia-Pacific Planning Meeting, *HBGCC, 218*

**1:00 p.m.-1:30 p.m.**

Local Sections Officers Training, *Hyatt, Lone Star A, Level 2*

**1:00 p.m.-2:00 p.m.**

Media Q&A with Government Affairs Director Aaron K. Trippler, *Press Room, Bridge Hall*

**1:30 p.m.-3:30 p.m.**

Fellows SIG Officers Meeting, *Hyatt, Crockett D, Level 4*

**2:00 p.m.-3:00 p.m.**

EASC Dermal Project Team, *Hyatt, Presidio A, Level 3*

Indigo Council, *Hyatt, Travis B, Level 3*

**2:00 p.m.-4:00 p.m.**

Biological Monitoring Committee, *Hyatt, Independence, Level 3*

Control Banding Working Group, *Hyatt, Bonham E, Level 3*

Engineering Industry SIG, *Hyatt, Mission B, Level 2*

Incident Preparedness and Response Working Group, *Hyatt, Crockett B, Level 4*

Ionizing Radiation Committee, *Hyatt, Crockett A, Level 4*

Local Sections Council Business Meeting, *Hyatt, Lone Star A, Level 2*

**3:00 p.m.-5:00 p.m.**

Safety Committee, *Hyatt, Bowie A, Level 2*

**3:30 p.m.-4:30 p.m.**

EASC Math Modeling, *Hyatt, Presidio A, Level 3*

**3:30 p.m.-5:30 p.m.**

Green Building Working Group, *Hyatt, Travis B, Level 3*

**4:00 p.m.-5:00 p.m.**

Computer Applications Project Team, *Hyatt, Presidio B, Level 3*

**5:00 p.m.-6:30 p.m.**

Volunteer Recognition Ceremony and Reception (by invitation), *Hyatt, Lone Star B/C, Level 2*

**6:30 p.m.-7:30 p.m.**

MSA/AIHA Reception, *Hyatt, Texas Ballroom, Level 4*

## AIHF

**6:30 a.m.-8:00 a.m.**

Fun Run/Walk, *Sunset Station/The Alamo Dome, 1174 E. Commerce Street*

**3:30 p.m.-5:30 p.m.**

Board of Trustees Meeting, *Hyatt, Travis A, Level 3*

## JOEH

**2:00 p.m.-4:00 p.m.**

JOEH, LLC Board Meeting, *Hyatt, Bonham C, Level 3*

## Ancillary

**6:30 a.m.-8:00 a.m.**

ABIH Past Chairs' Breakfast (by invitation), *Hyatt, Goliad, Level 2*

**10:30 a.m.-12:30 p.m.**

Focus on Accreditation, *Hyatt, Crockett A/B, Level 4*

OSHA Compliance Officers' Forum on Equipment Evaluation (COFFEE), *Hyatt, Lone Star C, Level 2*

**11:00 a.m.-12:30 p.m.**

ANSI Z88 Committee, *Hyatt, Bonham C, Level 3*

**4:00 p.m.-6:00 p.m.**

Center for Occupational and Environmental Health - Continuing Education, *Hyatt, Republic C, Level 4*

University of Cincinnati - Academy of Kettering Fellows, *Hyatt, Presidio C, Level 3*

**4:00 p.m.-7:00 p.m.**

Medgate - Enterprise EHS Software Solutions, *Hyatt, Crockett C, Level 4*

**4:30 p.m.-6:00 p.m.**

Alumni Reception - University of Texas, University of Houston - Clear Lake, and University of North Texas Health Science Center, *Hyatt, Bowie C, Level 2*

Gasmet Marketing Meeting (by invitation), *Hyatt, Bonham B, Level 3*

University of Central Missouri Alumni and Friends, *Hyatt, Republic A, Level 4*

**4:30 p.m.-6:30 p.m.**

University of Michigan Alumni Reception, *Hyatt, Republic B, Level 4*

**5:00 p.m.-7:00 p.m.**

University of Washington Alumni and Friends Reception, *Hyatt, Travis C/D, Level 3*

**6:00 p.m.-9:00 p.m.**

SKC International Distributor Reception (by invitation), *Hyatt, Lone Star A, Level 2*

**7:00 p.m.-9:00 p.m.**

University of Oklahoma Graduates and Friends Dinner, *Paesano's Riverwalk, 111 W. Crockett Street*

**7:15 p.m.-8:15 p.m.**

Purdue Alumni Reception, *Hyatt, Seguin B, Level 4*

## Stewardship At-a-Glance TUESDAY

### EMERGING ARTICLES REGULATIONS

**8:00 a.m. - 8:30 a.m.**

Global Summary and EU Update of the Restrictions in Hazardous Substances in Electrical and Electronic Equipment (RoHS)

**8:30 a.m. - 9:00 a.m.**

What You Need to Know About Product Stewardship Requirements for Packaging & Batteries in 2014

**9:00 a.m. - 9:30 a.m.**

EU REACH Authorization: Impacts on Articles

### EMERGING CHEMICAL REGULATORY ISSUES - II

**9:30 a.m. - 10:00 a.m.**

Managing Confidential Business Information in Supply Chain Communications

**10:00 A.M. - 10:30 A.M.**

### NETWORKING BREAK

**10:30 a.m. - 11:15 a.m.**

Asia Pacific Regulatory Horizon

**11:15 a.m. - 12:00 p.m.**

UNEP Chemicals in Products Project: An Early Indicator?

**12:00 P.M. - 1:30 P.M.**

### NETWORKING LUNCH BREAK

### EMERGING PRODUCT STEWARDSHIP ISSUES

**1:30 p.m. - 2:00 p.m.**

Emerging Legal and Product Stewardship Implications of Products of Nanotechnology

**2:00 p.m. - 2:30 p.m.**

Why the Fuss About Endocrine Disrupting Chemicals

**2:30 p.m. - 3:00 p.m.**

Cumulative Exposure

**3:00 P.M. - 3:30 P.M.**

### NETWORKING BREAK

**3:30 p.m. - 4:00 p.m.**

Developments in Biomonitoring with Implications for Product Stewardship

**4:00 p.m. - 4:30 p.m.**

Green Chemistry: A Critical Element of Sustainable Development and Product Stewardship

**4:30 p.m. - 5:00 p.m.**

Alternative Assessments for Product Stewards: Getting Started

Networking Breaks sponsored by Richard M. Fairbanks School of Public Health







## GENERAL SESSION

**8:00 A.M.-9:00 A.M.**

**HBGCC GRAND BALLROOM C**

**EVOLUTION & JOURNEY TO A SAFER TOMORROW**

*John Howard, MD, MPH, JD, LLM  
Director, NIOSH, Washington DC*

The 75th anniversary of AIHA and AIHce provides the perfect setting to recognize both the rich history of industrial hygiene, and the exciting future that is before us. There is no better person to deliver this celebratory presentation of our "evolution and journey" than Dr. John Howard, one of the profession's most engaging and enlightening presenters.

### CR309

**EFFECTIVE EHS METRICS REVIEWS - HOW TO MAXIMIZE ENGAGEMENT AND MAINTAIN A REPEATABLE EHS OPERATING RHYTHM**

**10:00 A.M.-11:00 A.M.**

**HBGCC 217 D**

*Presenter: C. Johnson, GE Energy Management, Atlanta, GA.*

Learn from several examples and case studies of how EHS performance is reviewed within General Electric. See which metrics GE focuses on for maximum impact and how the process is kept 'fresh' for both participating sites and senior leadership.

### CR310

**SAFETY LESSONS AT SEA: ACTING ON LEADING INDICATORS TO PROTECT YOUR MISSION**

**10:00 A.M.-11:00 A.M.**

**HBGCC 214 B**

*Presenter: E. Glass, UL Workplace Health and Safety, Franklin, TN.*

The naval aircraft carrier: nowhere does "being safe" ring true. Hazards can appear instantaneously and unless you are prepared for them, it could be a matter of life and death. Using lessons from the USS Forrester catastrophe, this seminar will explore the importance of hazard recognition and how leading indicators can strengthen your safety and health programs.

### RT215

**HISTORY OF INDUSTRIAL HYGIENE & OCCUPATIONAL SAFETY: THE BUILDING BLOCKS FOR THE FUTURE OF IH/OSH**

**10:00 A.M.-12:30 P.M.**

**HBGCC 006 A-B**

*Arranger: J. Zey, UCM, Warrensburg, MO. Moderator: S. Viet, Westat, Rockville, MD. Monitors: H. Wang, University of Central Missouri, Warrensburg, MO; R. Brown, University of Central Missouri, Warrensburg, MO.*

This roundtable details the history of occupational health and how lessons learned from the past help all OSH professionals better prepare for their future work. Speakers from two of the world's most populous areas will address the history and current status of industrial hygiene and OSH in those areas.

- **History of Sampling & Analytical Methods.** *P. Smith, OSHA, Sandy, UT.*
- **Academic Programs and Key Legislation.** *E. Maples, University of Alabama, Birmingham, AL.*
- **OSHE in China.** *Y. Zhen, Belzona Global, Miami Lakes, FL.*
- **OSHE in the African Continent.** *K. Gyamfi, Milbank, Kansas City, MO.*
- **Key Events, Women and Union Activities That Impacted the Profession and a Look Into the Future.** *A. Greife, University of Central Missouri, Warrensburg, MO.*

### RT216

**OCCUPATIONAL EXPOSURE BANDING—THE FUTURE IS NOW!**

**10:00 A.M.-12:30 P.M.**

**HBGCC 006 C-D**

*Arranger: P. Logan, 3M, Saint Paul, MN. Moderator: P. Logan, 3M, Saint Paul, MN. Monitors: T. Blodgett, 3M, St. Paul, MN; M. Murphy, 3M Corp Safety and Industrial Hygiene, St. Paul, MN.*

Occupational Exposure Bands (OEBs) have been in use throughout the pharmaceutical industry for several decades, and provide critical information to manage exposure risks related to highly potent compounds. Presenters will discuss the processes-in-place used for OEB development and how they can be used to strengthen exposure risk assessment and management programs.

- **Illustrating the Benefits of OEBs to Exposure Assessment and Management Programs.** *S. Ripple, The Dow Chemical Company, Chicago, IL.*
- **Validation Efforts for the NIOSH Health Hazard Banding Decision Logic.** *L. McKernan, CDC/NIOSH, Cincinnati, OH.*

- **Designing in Exposure Control Tools into Occupational Exposure Banding Processes.** *D. Heidel, Bureau Veritas North America, Inc, Edison, NJ.*

- **Leveraging Existing Data and Systems to Develop Efficient and Effective OEB Processes.** *R. Roy, 3M, Saint Paul, MN.*

- **Panel Discussion with All Participants.** *P. Logan, 3M, Saint Paul, MN.*

### IL03

**ASK THE EXPERT WITH DR. JOHN HOWARD**

**10:30 A.M.-11:30 A.M.**

**HBGCC 214 C**

*Moderator: E. Pullen, Clariant Corporation, Charlotte, NC*

Following today's general session, "Evolution & Journey to a Safer Tomorrow," join John Howard at this special interactive session.

### SP05

**14TH ANNUAL UPTON SINCLAIR MEMORIAL LECTURE FOR OUTSTANDING EHS INVESTIGATIVE REPORTING: THE HIDDEN DANGERS AT WORK**

**10:30 A.M.-11:30 A.M.**

**HBGCC 007 A-B**

Journalist Gabriel Thompson has spent his career documenting the critical, but large-



ly invisible, work done in the shadows—from child farmworkers to the temp warehouse employees who make online shopping possible. Hear Gabriel's experiences writing about—and, at times, doing—such

work, along with ways in which advocates can gain exposure about their workplace issue in the press.



## EXPO LEARNING PAVILION DEMOS AND PRESENTATIONS

10:00 A.M. – 2:00 P.M., EXPO LEARNING PAVILION, EXPO HALL

### 9:30 A.M. – 1:30 P.M.

#### EXPO LEARNING PAVILION, EXPO HALL

### 9:30 A.M. – PAVILION 1

#### **MSA ALTAIR® 2XP Gas Detector: Ready, Set, Bumped!**, *MSA - The Safety Company*

Based on proven science and advanced patented sensor capabilities, the MSA ALTAIR 2XP Gas Detector with XCell Pulse Technology delivers the world's first stand-alone bump test, which eliminates the need for bottled gas and accessories.

### 9:30 A.M. – PAVILION 2

#### **Improved, Universal Passive Monitor for VOC Sampling in the Workplace**, *Entech Instruments, Inc.*

Latest Developments on Helium Diffusion Sampling (HDS) Personal Monitors allows accurate VOC monitoring in the workplace without pumps or batteries. Single monitor collects all chemicals in 15 minute to 8 hour without using adsorbents. Sample weight collected is verified in the lab, eliminating potential for errors. Direct GCMS Analysis without solvent extraction.

### 10:00 A.M. – PAVILION 1

#### **Establishing Standard Operating Procedures (SOP) and Good Lab Practices (GLP) in Powder Handling Environments**, *Flow Sciences, Inc.*

Laboratories that are actively engaging in powder handling, establishing SOPs and GLPs to maximize safety is key. In a recent series of published technical articles, it was determined that technicians and Lab Managers have not established safe workflow practices to minimize exposure, even when working inside of a containment hood.

### 10:00 A.M. – PAVILION 2

#### **enviroflo, Inc. / Safescience Technologies Tox-Safe "Change-Safe" HEPA Filtration Removal for Potent Power Applications**, *enviroflo, Inc.*

enviroflo, Inc. and Safe Science Technologies will demonstrate the first fully safe-change fan system for any potent powder application. The system utilizes a technique of incorporating the disposal bag within the fan unit and extracting the filter without exposure to the external environment.

### 10:30 A.M. – PAVILION 1

#### **ILC Dover SCape® APER Escape Respirators – Alternatives to EEBA Systems**, *ILC Dover*

ILC Dover presents the world's leading APER escape respirator. With over 400,000 fielded worldwide, SCape® is trusted for use by the US Government and many leading Chemical Companies as the best option for employee protection. The integral blower, broad chemical protection and ease of use make SCape® the best choice.

### 10:30 A.M. – PAVILION 2

#### **Bactiquant Water - a Rapid Onsite Screening Tool for Assessing Legionella Risk**, *Mycometer*

Data will be presented where use of an enzyme based total bacteria method was used for routine monitoring and where, an outbreak was tracked down and mitigated. A description of the USEPA verified technology will be discussed along with a demonstration showing how data can be collected in as little as 15 minutes.

### 11:00 A.M. – PAVILION 1

#### **Safe Choice Education: Practicing Proactive Silica Dust Housekeeping**, *Nilfisk Industrial Vacuums*

Employers can significantly reduce the risk of silica exposure and prevent an estimated 1,600 new cases of silicosis annually, by instilling the best engineering controls. This presentation will provide an understanding of the issue, review of OSHA standards and offer housekeeping tips with HEPA vacuums to eliminate/reduce dangerous silica dust.

### 11:00 A.M. – PAVILION 2

#### **Utilizing Photoionization Detection (PID) Sensors for Indoor Air Quality (IAQ) investigations**, *GrayWolf Sensing Solutions*

Measuring TVOCs (with PIDs) is now recognized as a key parameter for IAQ investigations. GrayWolf offers varied sensors for environmental applications, which may be deployed in various GrayWolf monitors. This presentation shows how PID sensors may be effectively employed for screening, source detection ("blood-hounding"), LEED 3.2, before-and-after IAQ testing and more.

### 11:30 A.M. – PAVILION 1

#### **WorkLink 2.0**, *WorkCare, Inc.*

WorkLink 2.0 is a web based case management software program that allows WorkCare's clinicians to document details related

to a new injury while simultaneously capturing vital information necessary for employers to complete the first report of injury and file a claim. This platform ensures accuracy in reporting and saves time.

### 12:30 P.M. – PAVILION 2

#### **Gasmet Model DX-4040 Portable FTIR Gas Analyzer Identifies "Unknown" Toxic Gases in Emergency Response, Hazmat and Workplace IH Monitoring Applications**, *Gasmet Technologies Inc.*

The Model DX4040 portable FTIR gas analyzer can identify "unknown" gases within minutes of arriving at site by searching the NIST/EPA® reference library of over 5,000 gases. Measuring 25 gases simultaneously at sub-ppm levels, the DX4040 is also a very cost-effective solution for performing workplace exposure assessments at hospitals, chemical plants, remediation sites and universities.

### 12:30 P.M. – PAVILION 1

#### **Real Time Dust Monitoring: The Effects of Humidity on the Accuracy of Measuring Aerosol Concentrations**, *TSI Inc.*

TSI will be discussing the challenges and recent efforts to improve the accuracy of measuring aerosol concentrations with real time photometers. TSI will be introducing a new accessory that when used with Dust-Traks will overcome these limitations.

### 1:00 P.M. – PAVILION 1

#### **Validation Testing Results on Labconco Protector Stainless Steel ULPA Filtered Glove Box**, *Labconco Corporation*

Presentation of two part study results of containments of nanoparticulates utilizing the Protector® Stainless Steel ULPA Filtered Glove Box. The results show that this glove box provides the safest and most reliable engineered device for controlling and containing nanoparticulates, even at high concentration levels.

### 1:00 P.M. – PAVILION 2

#### **Thermo Scientific TVA2020 Analyzer - A Portable Dual Detector (FID & PID Instrument) Instrument**, *Thermo Fisher Scientific*

The TVA2020 is a next generation intrinsically safe portable instrument designed to meet the need of many diverse field monitoring applications, from LDAR, to remediation site monitoring to emergency response to general survey use.

## P0109

### HEALTHCARE INDUSTRIES I: INFECTION CONTROL ISSUES

10:30 A.M.-12:30 P.M.

#### HBGCC 007 C-D

**Arranger:** M. Jones, Iowa City VA Health Care System, Iowa City, IA. **Moderator:** S. Derman, Medishare Environmental Health & Safety Services, Cupertino, CA. **Monitors:** V. Puhlovich, Kaiser Permanente, Pasadena, CA; D. Regelbrugge, ENVIRON Int'l Corporation, Chicago, IL.

10:30 A.M.-11:00 A.M.

**CS-109-01** The Role for Industrial Hygienists in Healthcare Infection Prevention. L. Johnson, Lee Memorial Health System, Fort Myers, FL.

11:00 A.M.-11:30 A.M.

**SR-109-02** Burden of Occupationally-Acquired Influenza Among Healthcare Workers. R. Jones, School of Public Health, University of Illinois at Chicago, Chicago, IL.

11:30 A.M.-12:00 P.M.

**SR-109-03** Evaluating Risk of Legionnaires' Disease in Hospitals: Limitations of a Commonly Used Technique. J. Allen, T. Myatt, D. MacIntosh, J. Ludwig, T. Minegishi, J. Stewart, B. Connors, M. Grant, J. McCarthy, Environmental Health & Engineering, Inc., Needham, MA.

12:00 P.M.-12:30 P.M.

**CS-109-04** Benchmarking Airborne Levels of Indicator Mold Species for Infection Control Surveillance During Mold Remediation of Medical Center HVAC Systems. E. Medina, Alliance Consulting International, San Diego, CA.

## P0110

### LABORATORY HEALTH AND SAFETY

10:30 A.M.-12:30 P.M.

#### HBGCC 214 A

**Arranger:** L. Wong, EH&S, University of California Office of the President, Oakland, CA. **Moderator:** P. Jensen, Loss Control Services, Chubb Group of Insurance Companies, Lakeville, MN. **Monitors:** M. Miller, FBI Laboratory, Quantico, VA; M. Hayden, San Antonio, TX.

10:30 A.M.-11:00 A.M.

**CS-110-01** Moving the Bar: Advancing Safety Culture in Academic Research Laboratories. L. Gibbs, Stanford University, Stanford, CA.

11:00 A.M.-11:30 A.M.

**CS-110-02** Linking Lab Ventilation with Energy Savings via Lab Banding Tool. K. Bird, S. Smith, Woodard & Curran, Pittsburgh, PA; K. Lumley-Sapanski, Pennsylvania State University, University Park, PA.

11:30 A.M.-12:00 P.M.

**CS-110-03** Stop Pussyfooting Around:

**Real World Solutions for Controlling Exposure to Formaldehyde During Cat Dissections.** M. Canright, B. Kollmeyer, Forensic Analytical Consulting Services, Inc., San Diego, CA.

12:00 P.M.-12:30 P.M.

**CS-110-04** Application of 5S Housekeeping to Healthcare Helped to Identify Hidden Hazards. J. Momani, Security Forces Hospital, Riyadh, Saudi Arabia.

## P0111

### STEWARDSHIP AND SUSTAINABILITY: LESSONS FROM THE REAL WORLD

10:30 A.M.-12:30 P.M.

#### HBGCC 213

**Arranger:** R. Goldman, Corp Safety and Industrial Hygiene, 3M, Saint Paul, MN. **Moderator:** L. Barnes, Bureau Veritas North America, Lakewood, CO. **Monitors:** M. Plisko, EPI, Columbia, MD; J. Berman, Health Science Associates, Los Alamitos, CA.

10:30 A.M.-11:00 A.M.

**CS-111-01** A Focus on Sustainability Goals Leads to User Benefits. S. Wollschlager, 3M, St. Paul, MN.

11:00 A.M.-11:30 A.M.

**CS-111-02** Best Practices: Using The Cloud for Product Stewardship. K. Kavar, Actio Corporation, Portsmouth, NH.

11:30 A.M.-12:00 P.M.

**SR-111-03** Integrating Occupational Safety and Health into Life Cycle Assessment. K. Scanlon, Consultant, Washington, DC; S. Lloyd, Consultant, Montreal, QC, Canada; G. Gray, The George Washington University, Washington, DC; R. Francis, P. LaPuma, The George Washington University, Washington, DC.

12:00 P.M.-12:30 P.M.

**CS-111-04** Assessing Anthraquinone Exposure from Food Packaging: A Product Stewardship Challenge in Europe. P. Sheehan, K. Bogen, A. Singhal, M. Glomski, Exponent, Oakland, CA. J. Hellerstein, MeadWestvaco, Glen Allen, VA.

## P0112

### COMPUTER APPLICATIONS

10:30 A.M.-12:30 P.M.

#### HBGCC 205

**Arranger:** T. Carraway, Aberdeen, MD. **Moderator:** K. Hawkins, American Electric Power, Dallas, TX. **Monitors:** K. Diep, Corporate Safety, American Airlines, Fort Worth, TX; D. Yang, DTZ Inc., Boston, MA.

10:30 A.M.-11:00 A.M.

**CS-112-01** Occupational Health and Safety Management Systems Tools. A. Ornstein, LMI, San Antonio, TX; A. Sheaffer, LMI, Belcamp, MD; J. Yasalonis, LMI, Belcamp, MD.

11:00 A.M.-11:30 P.M.

**CS-112-03** Development of an Internet Based Application for Supporting Industrial Hygiene Exposure Models. M. Plisko, Environmental Profiles, Inc., Columbia, MD; J. Spencer, Environmental Profiles, Inc., Columbia, MD.

11:30 P.M.-12:00 P.M.

**CS-112-04** A Computer Tool to Calculate of Confidence Limits Using the OSHA-Compliance Approach. D. Drolet, IRSST, Montreal, QC, Canada.

12:00 P.M.-12:30 P.M.

**CS-112-05** The Uncertainty in IH Calculations Can Be Estimated Either as a Confidence Interval or an Extreme Value Interval - the Choice is a Matter of Professional Judgment as Illustrated by Estimating Mesothelioma Risk from an Asbestos Exposure History. J. Rock, Retired USAF & TAMU, Bryan, TX.

## RT217

### IMPLEMENTING A PERSONAL PROTECTIVE EQUIPMENT (PPE) DECONTAMINATION PROGRAM

10:30 A.M.-12:30 P.M.

#### HBGCC 008

**Arranger:** C. Hintz, Dow Chemical Company, Freeport, TX. **Moderator:** S. Thomas, Oregon OSHA, Bend, OR. **Monitors:** A. McLeland, Dow Chemical Company, Freeport, TX; D. Wilson, Lake Jackson, TX.

This roundtable addresses key aspects of implementing personal protective equipment (PPE) decontamination in emergency response situations, remediation projects and industrial workplace settings. Topics of discussion will include objectives of decontamination, decontamination methods, and decontamination solutions, and determining the effectiveness of decontamination will be addressed in detail.

- **Decontamination Objectives and Methods.** G. Popov, University of Central Missouri, Warrensburg, MO.
- **Assessing Decontamination Effectiveness.** F. Bolton, Consultant, Los Alamos, NM.
- **Practical Aspects of Operating a Decontamination Facility.** D. Linville, Center for Toxicology and Environmental Health, LLC, Mars Hill, NC.
- **Practical Considerations and Examples of Decontamination in Industrial Operations.** C. Hintz, Dow Chemical Company, Freeport, TX.

Full session descriptions on the AIHce Mobile App.





## RT219

### OIL & GAS OPERATIONS: THE PRACTICE OF IH IN CULTURALLY AND ENVIRONMENTALLY SENSITIVE OR REMOTE LOCATIONS OUTSIDE THE U.S. - CHALLENGES AND SUCCESSES

10:30 A.M.-12:30 P.M.

#### HBGCC 217 A

**Arranger:** M. Denhoff, Husky Energy Inc., Calgary, AB.

**Moderator:** H. Beaulieu, Industrial Hygiene Resources, Boise, ID.

**Monitors:** A. Johnson, WorkSafeBC, Richmond, BC; J. DallaCosta, Husky Energy Inc., Calgary, AB.

Oil and gas reserves are often found in some of the most remote and extreme environments on the globe—from frigid North Atlantic seas to tropical regions with endemic malaria. However, the IH may find these environmental challenges minor compared to navigating the cultural and political landscape in many of these regions. This roundtable will focus on the field experiences of IHS working outside the U.S. in remote or culturally and environmentally sensitive areas.

- **IH Aspects of Decommissioning a Pulp and Papermill and Construction of an LNG Plant in an Environmentally and Culturally Sensitive Setting.** P. Joseph, Industrial Safety International, Calgary, AB, Canada.
- **Fire and Ice - The Burning Road Incident in Northern Canada.** R. Patel, Husky Energy Inc., Calgary, AB, Canada.
- **Challenges We have Faced and How They Were Overcome for Successful Delivery of Occupational Health Services.** C. Penniall, ExxonMobil, Houston, TX.
- **Supporting Industrial Hygiene Programs in West Africa.** M. Dupuis, Marathon Oil, Houston, TX.

## RT220

### THE POWER OF IH EMPLOYEE INVOLVEMENT TEAM: CREATING AN H&S CULTURE

10:30 A.M.-12:30 P.M.

#### HBGCC 206

**Arranger:** B. Adams, Safex, Inc., Westerville, OH. **Moderator:**

D. Bentley, Safex, Inc., Westerville, OH. **Monitors:** Q. Coleman, Safex, Columbus, OH; D. Morrell, Albuquerque, NM.

Developing and maintaining a comprehensive plant-level industrial hygiene program takes commitment, perseverance and accountability. Nucor Steel Texas' general manager will discuss the value of the culture shift during the past three years, and an organizational consultant will share how the culture change was driven.

- **The ROI and Value of Employee-Driven Teams.** J. Ferris, Nucor Steel Jewett, Jewett, TX.

- **The Steps to Creating a Employee-Driven Safety Culture.** T. Reeves, Reeves Organizational Consulting, LLC, Lewis Center, OH.

- **The IH Exposure Assessment Strategy - Qualitative and Quantitative.** B. Adams, Safex, Inc., Westerville, OH.

- **The Successes and Challenges of the IH Employee Team.** Bird, Nucor Steel Texas, Jewett, TX.

## SP08

### ABIH FORUM

10:30 A.M.-12:30 P.M.

#### HBGCC 202

The primary purpose of the Forum is to seek input from attendees on ABIH's strategic direction. A short update of activities during the past year will also be provided.

## RT221

### RESPONSIBLE MANAGEMENT OF NANOMATERIALS: AN UPDATE FROM NIOSH

10:30 A.M.-1:00 P.M.

#### HBGCC 217 B-C

**Arranger:** C. Geraci, NIOSH, Cincinnati, OH. **Moderator:** C. Geraci, NIOSH, Cincinnati, OH. **Monitor:** L. Hodson, Franklin, OH.

This roundtable will focus on recent results from NIOSH in key program areas, as well as the broader strategy for developing Occupational Exposure Limits based on a categorical approach. Late-breaking results will be incorporated into the panel discussion.

- **Update on Key Results from Inhalation and In-Vitro Studies.** C. Geraci, NIOSH, Cincinnati, OH
- **Strategies for Occupational Exposure Limits for Engineered Nanomaterials.** C. Geraci, NIOSH, Cincinnati, OH.
- **Control and Hazard Banding for Nanomaterials.** A. Eastlake, NIOSH, Cincinnati, OH.
- **Current Strategies for Engineering Controls in Nanomaterial Production and Downstream Handling Processes.** K. Dunn, NIOSH, Cincinnati, OH.

## SP15

### PANDEMIC PREPAREDNESS: RESPIRATOR SUPPLY ISSUES

11:00 A.M.-12:00 P.M.

#### HBGCC 214 D

**Presenter:** R. Shaffer, D. Rottach, NIOSH, Pittsburgh, PA

This session will provide a forum for subject matter experts to discuss the latest research findings and best practices for addressing filtering facepiece respirator (FFR) supply

issues in healthcare settings in the United States. Following this session, a facilitated luncheon discussion will be held in the Expo from 12:30 to 1:30 p.m., focusing on obtaining reactions from participants to the options for mitigating FFR supply issues during an influenza pandemic or wide-spread respiratory pathogen outbreak and better understanding research needs. Luncheon discussion seating is first-come, first-served.

## CR311

### APPLYING SAFETY & ENVIRONMENTAL MANAGEMENT SYSTEMS MODELS TO MANAGING WORK-PLACE ERGONOMICS PROGRAMS

11:30 A.M.-12:30 P.M.

#### HBGCC 207

**Presenter:** W. Rostykus, Humantech, Ann Arbor, MI.

The key elements of the ergonomics improvement process, aligned with Environmental and Safety Management Systems models and AIHA's publication Ergonomics Program Guidance Document (Stock Number EERA08-742), will be illustrated with real industry applications and examples. Lessons learned from leading organizations and benchmarked companies will be discussed.

## CR312

### SHIFTING TIMES - LEARNING TO MINIMIZE THE IMPACTS OF SHIFT WORK ON YOUR WORKFORCE

11:30 A.M.-12:30 P.M.

#### HBGCC 217 D

**Presenter:** R. Whiting, CCOHS, Hamilton, ON, Canada.

Discover what aspects of shift work may cause health hazards. Find out how your organization can apply coping strategies to help minimize health effects pertaining to shift work. Learn how to develop an effective action plan for better shift work conditions in your workplace.

## IL07

### NIOSH TECH TALKS: CURRENT TOPICS

12:30 P.M. - 1:30 P.M.

#### EXPO HALLS C & D

Facilitated by NIOSH researchers, discussions focus on high-interest topics in research and technical content.

### ENGINEERING CONTROLS

**Moderator:** R. M. Hall, NIOSH, Cincinnati, OH

Join us as we discuss areas of engineering control research within NIOSH and any emerging issues related to industrial hygiene and engineering controls.

## PANDEMIC PREPAREDNESS: RESPIRATOR SUPPLY ISSUES

**Moderator:** R. Shaffer, NIOSH, Pittsburgh, PA

This discussion will focus on what NIOSH has learned from these field evaluations and how the results are contributing to the development of good risk management practices and nanomaterial occupational exposure limits.

## SELECTING HIGH-VOLUME SAMPLERS FOR SILICA

**Moderator:** M. Harper, NIOSH, Morgantown, WV

Several samplers for silica have been tested for collecting respirable fractions at higher flow-rates. These will be described, and factors that must be considered in selecting samplers will be discussed.

## ELECTRONIC SCRAP RECYCLING

**Moderator:** Diana Ceballos, NIOSH, Cincinnati, OH

The electronic scrap recycling industry has grown tremendously in the last decade, twenty-five states have laws mandating electronic waste recycling, and there are several voluntary industry standards of health and safety at these facilities. This discussion will focus on identifying health and safety issues in this industry that need to be better understood.

## AN INTEGRATED RISK MANAGEMENT FRAMEWORK FOR EMERGENCY RESPONDERS

**Moderators:** M. Seaton, L. McKernan, NIOSH, Cincinnati, OH.

NIOSH is currently developing an integrated risk management framework for emergency responders. Join us in a discussion on how to best equip ER personnel with the tools needed to consider both physical and chemical hazard information, integrate information from various sources, and make risk management decisions quickly and safely.

## SP06

### WILLIAM P. YANT AWARD LECTURE: STANDING, SITTING, AND WATCHING PEOPLE WORK: HOW A GENDER ANALYSIS CAN HELP ERGONOMISTS UNDERSTAND THE EFFECTS OF WORKING POSTURES



**12:30 P.M.-1:30 P.M.**  
**HBGCC 203**

**Presenter:** Karen Messing, CINBIOSE, Université du Québec à Montréal, Montréal, Québec, Canada

During field studies, ergonomists learn a lot about gender (social roles) and sex (biological differences) that can be important when generating and testing hypotheses. This session details collaborative research on working postures with specialists in epidemiology, occupational medicine, biomechanics and physiology, some of which was carried out in partnership with community groups and unions.

## IL04—LUNCHEON DISCUSSION

### UNSOLVED IH MYSTERIES WORKSHOP (PRE-REGISTRATION REQUIRED)

**12:30 P.M.-2:00 P.M.**  
**HBGCC 201**

**Facilitator:** F. Boelter, Environ International, Chicago, IL

## P0113

### AEROSOLS I

**1:30 P.M.- 4:30 P.M.**  
**HBGCC 006 A-B**

**Arranger:** D. Sleeth, University of Utah, Salt Lake City, UT.

**Moderator:** P. O'Shaughnessy, University of Iowa, Iowa City, IA. **Monitors:** P. Raynor, University of Minnesota, Minneapolis, MN; K. Chatterjee, University of Cincinnati, Cincinnati, OH.

**1:30 P.M.-2:00 P.M.**

### SR-113-02 A Disposable Inhalable Aerosol Sampler Designed to Fit a 37-mm Cassette.

C. L'Orange, Colorado State University, Fort Collins, CO; K. Anderson, Colorado State University, Fort Collins, CO; D. Sleeth, University of Utah, Salt Lake City, UT; T. Anthony, University of Iowa, Iowa City, IA; J. Volckens, Colorado State University, Fort Collins, CO.

**2:00 P.M.-2:30 P.M.**

**SR-113-03 Bioaerosol Sampling by Different Methods: Effect on Bioaerosol Structural Integrity Loss and Exposure Assessment Accuracy.** H. Zhen, T. Han, D. Fennell, G. Mainelis, Rutgers University, New Brunswick, NJ.

**2:30 P.M.-3:00 P.M.**

**SR-113-04 Data Distribution and Analysis of Bioaerosol Data.** R. Spicer, WCD Group LLC, Pennington, NJ; H. Gangloff, WCD Group LLC, Pennington, NJ.

**3:00 P.M.-3:30 P.M.**

**SR-113-06 Evaporation of Semi-Volatile Aerosol Particles: Parameters Influencing the Evaporation and Implications on Workplace Risk Assessment.** G. Dragan, E. Karg, Joint Mass Spectrometry Centre, Cooperation Group Comprehensive Molecular Analytics, Helmholtz Zentrum München, München, Germany; D. Breuer, J. Schnelle-Kreis, Institute for Occupational Safety and Health, Sankt Augustin, Germany; H. Nordsieck, bifa Environmental Institute, Augsburg, Germany; R. Zimmermann, Joint Mass Spectrometry Centre, Chair of Analytical Chemistry, University of Rostock, Rostock, Germany.

**3:30 P.M.-4:00 P.M.**

**SR-113-01 Investigation of 37-mm Closed Face Cassette Inlet Modifications on the Sampling Efficiency of Inhalable Particles.**

T. Anthony, University of Iowa, Iowa City, IA; D. Sleeth, University of Utah, Salt Lake City, UT; J. Volckens, Colorado State University, Fort Collins, CO.

**4:00 P.M.-4:30 P.M.**

**SR-113-07 Omni-Directional Estimates of Human Aspiration Efficiency in Low Velocity Air Using Computational Fluid Dynamics.**

T. Anthony, University of Iowa, Iowa City, IA; K. Anderson, Colorado State University, Fort Collins, CO.

## P0114

### CHANGES IN CONSTRUCTION & CONFINED SPACE SAFETY

**1:30 P.M.-4:00 P.M.**  
**HBGCC 006 C-D**

**Arranger:** G. Mellor, Omega Environmental Services, S Hackensack, NJ. **Moderator:** C. Dellacqua, Amgen, Thousand Oaks, CA. **Monitors:** G. Mellor, Omega Environmental Services, S Hackensack, NJ; D. Garvey, Personal Safety, 3M Company, St Paul, MN.

**1:30 P.M.-2:00 P.M.**

**CS-114-02 Air Monitoring During Highway Construction for Lead.** D. Napier, DNA Industrial Hygiene, Manhattan Beach, CA.

**2:00 P.M.-2:30 P.M.**

**CS-114-03 Confined Space Hazard Assessment Preparation.** P. Bergholz, AMEC, Burnaby, BC, Canada.

**2:30 P.M.-3:00 P.M.**

**CS-114-04 Evaluation of Airborne Particle Releases From Cutting Gypsum Drywall Using Various Cutting Methods in a Controlled Environment.** K. Rickabaugh, RJ Lee Group, Pittsburgh, PA; M. Zock, RJ Lee Group, Pittsburgh, PA; M. Lynn, USG Corporation, Chicago, IL.

**3:00 P.M.-3:30 P.M.**

**CS-114-05 Considerations When Faced with Decontaminating a Facility from Beryllium-LLNL-ABS-643801.** M. Islam, Lawrence Livermore National Laboratory, Livermore, CA; R. Kamerzell, Lawrence Livermore National Laboratory, Livermore, CA; S. Lee, Lawrence Livermore National Laboratory, Livermore, CA.

**3:30 P.M.-4:00 P.M.**

**CS-114-06 How IH Principles Were Applied to a Medical Research Laboratory Facility Following a Plastics Fire During Construction.** M. Smith, AMEC Environment & Infrastructure, Inc., Bothell, WA.



## RT222

### MANAGING OCCUPATIONAL HEALTH RISK IN PHARMACEUTICAL INDUSTRIES IN EMERGING ECONOMIES

1:30 P.M.-5:00 P.M.

#### HBGCC 212 A-B

**Arranger:** M. Mehta, International Safety Systems, Inc, Washingtonville, NY. **Moderator:** M. Mehta, International Safety Systems, Inc, Washingtonville, NY. **Monitors:** G. Desai, International Safety Systems, Inc., Houston, TX; A. Sharma, International Safety Systems, Inc., Washingtonville, NY.

This roundtable will focus on the approaches adopted by corporate EHS professionals, site EHS professionals and services providers in effectively managing primarily occupational health and process safety risk at pharmaceutical manufacturing sites and CMOs in emerging economies.

- **Particulate Containment Validation: An Effective Tool in Reducing Pharmaceutical Exposure in Emerging Economies.** P. Kondragunta, International Safety Systems, Vadodara, India.
- **Managing Occupational Health Risk in Pharmaceutical Industries in Emerging Economies.** N. Demai, Bristol-Myers Squibb Company, North Brunswick, NJ.
- **The Challenges and Successes of Establishing a Robust and Sustainable EHS Program at a Research and Development Pharmaceutical Site in Hyderabad, India.** R. Hirsh, Nektar Therapeutics, San Francisco, CA.
- **Reducing Occupational Hygiene Risk at Pharmaceutical Manufacturing and Acquired Sites Globally.** T. Lane, Merck and Co, White House Station, NJ.
- **Pharmaceutical Corporation Experience of Empowering HSE Staff Globally.** F. Parrot, Sanofi Pharmaceuticals, Gentilly, France.
- **Journey to Sustaining Occupational Hygiene Capability at External Manufacturers.** M. West, Pfizer Inc., New York, NY.

## CR313

### RISK MANAGEMENT SYSTEMS 4.0: INTEGRATING ISO 22301, 14001, AND 31000

2:00 P.M.-3:00 P.M.

#### HBGCC 217 D

**Presenter:** C. Redinger, Redinger 360, Inc., Harvard, MA.

This session presents an integrated risk management system (RMS) that uses ISO 31000/22301/14001, along with organizational-learning and systems-thinking practices. With a case study, key linkage points for integration and implementation tips are given. A brief history of RMSs, along with ISO's new management system structure, will be presented.

## CR314

### USE YOUR INTERPERSONAL COMMUNICATION SKILLS FOR IMPROVED SAFETY!

2:00 P.M.-3:00 P.M.

#### HBGCC 213

**Presenter:** J. Klane, Arizona State University (ASU), Tempe, AZ.

In this evidence-based and practical session we'll discuss research on the need for and lack of education in interpersonal communication (IPC) skills in safety. IPC skills can be used and leveraged to increase the inroads for safety initiatives in your organization. Research, cases, and examples will all be discussed.

## P0115

### REAL TIME DETECTION SYSTEMS I

2:00 P.M.-3:30 P.M.

#### HBGCC 214 A

**Arranger:** P. Smith, U.S. Department of Labor - OSHA, Sandy, UT. **Moderator:** W. Groves, Energy and Mineral Engineering, Penn State University, University Park, PA. **Monitors:** M. Roe, 3M, Blaine, MN.

2:00 P.M.-2:30 P.M.

**CS-115-01 Field-Portable Fourier Transform Infrared Spectroscopy for Simultaneous Detection and Quantitation of an Unexpected Airborne Contaminant.** P. Smith, J. Hill, U.S. Department of Labor - OSHA, Sandy, UT.

2:30 P.M.-3:00 P.M.

**SR-115-02 A Rapid and Accurate Field Method for Reduced Sulfur Compounds by GC/FPD.** J. MacLachlan, PID Analyzers, LLC, Sandwich, MA.

3:00 P.M.-3:30 P.M.

**CS-115-03 Real-time Field Assessment Methods for Quantifying Carbon Dioxide Levels Present in Workplace Atmospheres.** J. Hill, P. Smith, U.S. Department of Labor - OSHA, Sandy, UT

## P0116

### OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY

2:00 P.M.-4:30 P.M.

#### HBGCC 202

**Arranger:** J. Hepler, University of Illinois at Chicago, Chicago, IL. **Moderator:** J. Hepler, University of Illinois at Chicago, Chicago, IL. **Monitors:** B. Chin, Fenton, MO; F. Pagone, Park Ridge, IL.

2:00 P.M.-2:30 P.M.

**SR-116-01 Do We Agree? Comparison of Semi-Quantitative Exposure Assessments by Three Independent Approaches.** T. Armstrong, TWA8HR Occupational Hygiene Consulting, LLC, Branchburg, NJ; R. Herrick, Harvard School of Public Health, Boston, MA; J. Cherrie, Institute of Occupational Medicine, Edinburgh, United Kingdom.

2:30 P.M.-3:00 P.M.

**SR-116-02 Mortality, Cancer Morbidity and Quartz Exposure in Swedish Iron Foundries.** L. Andersson, I. Bryngelsson, H. Westberg Department of Occupational and Environmental Medicine, Örebro, Sweden.

3:00 P.M.-3:30 P.M.

**SR-116-03 A Review of the Early History of Benzene Exposure and Benzene-Containing Materials.** T. Armstrong, TWA8HR Occupational Hygiene Consulting, LLC, Branchburg, NJ.

3:30 P.M.-4:00 P.M.

**SR-116-04 Ambient Asbestos and Longterm Trends in Pleural Mesothelioma Incidence Between Urban and Rural Areas in the United States.** M. Glynn, Cardno ChemRisk, Chicago, IL; S. Gaffney, Cardno ChemRisk, San Francisco, CA; J. Sahmel, Cardno ChemRisk, Boulder, CO.

4:00 P.M.-4:30 P.M.

**SR-116-05 The Department of Defense Epidemiologic and Economic Burden of Hearing Loss Study: Preliminary results.** H. Alamgir, K. Whitworth, S. Cooper, N. Gorrell, D. Gimeno, L. Whitehead, J. Betancourt, J. Cornell, D. Douphrate, G. Delclos, D. Marko, H. Sagiraju, University of Texas School of Public Health, San Antonio, TX; D. Tucker, The Geneva Foundation, Tacoma, WA; T. Hammill, M. Packer, Department of Defense Hearing Center of Excellence, Lackland AFB, TX; A. Senchak, Walter Reed National Military Medical Center, Bethesda, MD.

Tuesday, June 3

1:00 – 2:00 PM CDT

Press Room, Bridge Hall

### MEDIA Q&A WITH AIHA GOVERNMENT AFFAIRS

**DIRECTOR AARON K. TRIPPLER** (Registered media representatives only)

Aaron K. Trippler, who serves as AIHA's chief liaison with Congress and federal agencies, will comment on several recent OEHS industry happenings on Capitol Hill including the proposed silica standard, OSHA's renewed focus on permissible exposure limits (PELs) and the proposed rule to track workplace injuries and illnesses.





## P0117

### RESPIRATORY PROTECTION I

**2:00 P.M.-4:30 P.M.**  
**HBGCC 214 D**

**Arranger:** N. Gaydos, Axiall Corp., Irwin, PA. **Moderator:** N. Gaydos, Axiall Corp., Irwin, PA. **Monitor:** S. Smith, 3M Canada Company, Brockville, ON, Canada.

**2:00 P.M.-2:30 P.M.**

**John M. White Award**

**2:30 P.M.-3:00 P.M.**

**SR-117-01 Protection Offered by an Improperly Sized, Loose-Fitting Powered Air-Purifying Respirator Against Sub-Micrometer Aerosol Particles.** S. Gao, M. Yermakov, J. Kim, R. McKay, T. Reponen, S. Grinshpun University of Cincinnati, Cincinnati, OH.

**3:00 P.M.-3:30 P.M.**

**SR-117-02 Evaluation of the NIOSH Proposed STP for Fit Testing Half Facepiece Respirators.** C. Colton, P. Eitzman, M. Luinenburg, 3M Personal Safety Division, St. Paul, MN; R. Hehenberger, 3M Safety and Graphics Business, Shanghai, China

**3:30 P.M.-4:00 P.M.**

**SR-117-03 Respiratory Protection for Firefighters- Evaluation of CBRN Canisters During Overhaul.** L. Jones, E. Lutz, University of Arizona, Tucson, AZ.

**4:00 P.M.-4:30 P.M.**

**SR-117-05 Effectiveness of Exhalation Valves on N95 Filtering Facepiece Respirator Performance.** A. Sabolis, D. Symons, J. Maness, W. Milbrandt, M. Parham, Scott Safety, Monroe, NC.

## P0118

### SAFETY ISSUES

**1:30 P.M.-4:30 P.M.**  
**HBGCC 214 B**

**Arranger:** N. Orr, Becton Dickinson, Franklin Lakes, NJ. **Moderator:** M. Jones, Indianapolis, IN. **Monitors:** L. Sedlak, Kimberly Clark - Fullerton Mill, Fullerton, CA; G. Mellor, Omega Environmental Services, S Hackensack, NJ.

**1:30 PM - 2:00 PM**

**CS-118-01 Protecting and Promoting the Occupational Health and Safety for Female Migrant Workers in Workplace in China.** Y. Wen Lan, Chinese Center for Disease Control and Prevention, Beijing, China

**2:00 P.M.-2:30 P.M.**

**CS-118-02 Integrating Your H&S Program Into a H&S Management System.** M. Hrycusko, GMCL, St. Catharines, ON, Canada.

**2:30 P.M.-3:00 P.M.**

**SR-118-03 Effective Health and Safety Committees in Small Business.** A. Crollard, C. Dominguez, B. Stover, N. Seixas University of Washington, Seattle, WA.

**3:00 P.M.-3:30 P.M.**

**CS-118-04 Lessons Learned - Managing the Safety of the Aging Workforce.** B. McGowan, Humantech, Inc., Ann Arbor, MI.

**3:30 P.M.-4:00 P.M.**

**CS-118-05 Emergency Responder Considerations for Decontamination of Incidents.** J. Croson, First Line Technology, Chantilly, VA.

**4:00 P.M.-4:30 P.M.**

**CS-118-06 Methanol Hazards and Safe-guards: Lessons Learned from Incidents in the Global Supply Chain.** E. Medina, Alliance Consulting International, San Diego, CA.

## P0119

### SPECIALTY BUILDING IAQ

**2:00 P.M.-4:30 P.M.**  
**HBGCC 007 A-B**

**Arranger:** E. Sobek, Assured Bio Labs, LLC, Oak Ridge, TN. **Moderator:** A. Lehoczy, Board of Regents, Atlanta, GA. **Monitors:** G. Baril, Lawrence Environmental Group, LLC, New York, NY; L. Rogers, Mycometer, Inc., Tampa, FL.

**2:00 P.M.-2:30 P.M.**

**CS-119-01 Mold Remediation: Pitfalls of Air Sampling.** H. Burge, EMLab P&K, San Bruno, CA.

**2:30 P.M.-3:00 P.M.**

**CS-119-03 Secondhand Tobacco Smoke Exposure in New Orleans, Louisiana Bars and Casinos.** D. Harrington, K. Peak, Louisiana State University Health Sciences Center, New Orleans, New Orleans, LA; J. Klink, University of Wisconsin, Madison, WI.

**3:00 P.M.-3:30 P.M.**

**CS-119-04 Sampling and Analysis of Airborne Hazardous Chemicals in Hairdressing Salons in Taiwan.** C. Chang, S. Tsai, Institute of Environmental Health, College of Public Health, National Taiwan University, Taipei, Taiwan; S. Cheng, Institute of Occupational Safety and Health, Council of Labor Affairs, Executive Yuan, Taipei, Taiwan

**3:30 P.M.-4:00 P.M.**

**CS-119-05 Maintaining Acceptable Indoor Air Quality in an Outpatient Building Following a Building Implosion in the Texas Medical Center.** L. Moore, J. Mathis, University of Texas M.D. Anderson Cancer Center, Houston, TX.

**4:00 P.M.-4:30 P.M.**

**CS-119-06 Root Causes of Summer Mold Growth in Schools Associated with Elevated Relative Humidity.** E. Light, J. Bailey, R. Gay, Building Dynamics, LLC, Ashton, MD.

## RT223

### ACCURACY OF PROFESSIONAL JUDGMENT: AIR, DERMAL, AND NOISE EXPOSURE ASSESSMENT

**2:00 P.M.-5:00 P.M.**  
**HBGCC 007 C-D**

**Arranger:** S. Jahn, Aiken, SC. **Moderator:** A. Weikert, WLGore, Elkton, MD. **Monitors:** J. Quam, 3M Company, St. Paul, MN; J. Kunz, 3M, St. Paul, MN.

A two-day workshop provided participants with qualitative and quantitative tools to help improve the consistency and accuracy of exposure judgments using the EASC's categorical exposure judgment tool for ranking exposures. Participants tested each tool using real-world exposure scenarios throughout the workshop to determine the impact of their judgments. Join us to learn about outcomes and best practices.

- **What Do We Really Know When the Sample Size is Small?** P. Hewett, Exposure Assessment Solutions, Inc., Morgantown, WV.
- **Occupational Exposure Decisions: Can Limited Data Interpretation Training Help Improve Accuracy?** M. Stenzel, Exposure Assessment Applications, Arlington, VA.
- **Air Exposure Judgment.** S. Arnold, University of Minnesota, Minneapolis, MN.
- **Noise Exposure Judgment.** C. Johnson, 3M, St. Paul, MN.
- **Dermal Exposure Judgment.** J. Sahmel, Cardno Chemrisk, Boulder, CO.

## RT224

### MANAGEMENT OF CHANGE (MOC) IN RESEARCH AND DEVELOPMENT ENVIRONMENTS

**2:00 P.M.-5:00 P.M.**  
**HBGCC 205**

**Arranger:** S. Durgam, GE, Niskayuna, NY. **Moderator:** L. Poore, Univ of Kentucky, Lexington, KY. **Monitor:** R. Burton, 3M, Maplewood, MN.

R&D environment experiences change in people, processes, and place—the 3Ps. This roundtable will highlight key aspects governing MOC, including standards, best practices and information tools that EHS practitioners can leverage to improve their programs.

- **Regulations, Standards, and Guidelines Applicable to Management of Change in Laboratory Settings.** S. Hemperly, HGST A Western Digital Company, San Jose, CA.

- **Managing Change Robustly in an Industrial R&D Setting.** *S. Durgam, GE, Niskayuna, NY.*
- **Laboratory Change Management - Key Elements and Best Practices for an Effective Approach.** *L. Seiler, DOW, Midland, MI.*
- **Mergers and Acquisitions - Managing Change.** *V. Rodriguez, Ligand Pharma, La Jolla, CA.*
- **Bringing New Principal Investigators and Their Laboratories to Our Institution.** *A. Bakker, Weill-Cornell Medical College, New York, NY.*
- **Lessons Learned from an R & D Laboratory Facility Relocation.** *S. Hemperly, HGST, San Jose, CA.*

## RT225

### THE REAL WORLD: INDUSTRIAL HYGIENE

**2:00 P.M.-5:00 P.M.**

**HBGCC 207**

**Arranger:** *M. Coutu, Concurrent Technologies Corporation, Johnstown, PA.* **Moderator:** *M. Coutu, Concurrent Technologies Corporation, Johnstown, PA.* **Monitors:** *Q. Coleman, Safex, Columbus, OH; J. Watson, Humantech, Inc., Houston, TX.*

Congratulations! You've graduated. Now what's next? This roundtable will incorporate topics relevant to navigating the exciting and unique challenges that face up-and-coming professionals. Participants will learn how to integrate and excel in an evolving discipline, as presenters break down the communication barriers between employers and employees.

**Networking Beyond Social Media.** *B. Lewis, Concurrent Technologies Corporation, Johnstown, PA.*

**Where Do I Belong?** *Y. Zhen, Belzona Global LLC, Miami Lakes, FL.*

**Hiring Process and Interviewing from the Employer's Perspective.** *T. Blank, Pennoni Associates Inc., Pittsburgh, PA.*

**Sink or Swim.** *J. Brown, Ascend Performance Materials, Decatur, PA.*

**Breaking Down Barriers to Build Up Trust.**

*C. Hovde, Caterpillar Inc, Peoria, IL.*

**What Do You Really Need to Know and What Do We Do With It?**

*M. Barrie, Oak Ridge Associated Universities, Oak Ridge, TN.*

## RT226

### NONIONIZING RADIATION THERMAL STRESS ROUNDTABLE

**2:00 P.M.- 5:00 P.M.**

**HBGCC 008**

**Arranger:** *T. Fuller, Illinois State University, Bloomington, IL.* **Moderator:** *T. Fuller, Illinois State University, Bloomington, IL.* **Monitors:** *A. Butler, San Pedro, CA; G. Gruetzmacher, WI State Lab of Hygiene, UW-Madison, Madison, WI.*

This roundtable will review some of the latest methods of occupational heat stress monitoring, management, and control. A special speaker will discuss the thermal risks associated with extra-vehicular activities in space. Speakers represent combined work experience in mining, chemical manufacturing, NASA, research, academia, petroleum, auto manufacturing, and consulting.

- **Health Effects of Occupational Cold Stress Exposure.** *L. Clements, AMEC Americas Limited, Burnaby, BC, Canada.*
- **Effective Heat Stress Management Strategies.** *J. Winget, Phillips 66, Houston, TX.*



## IL05

**IGNITE "ENLIGHTEN ME BUT MAKE IT QUICK!": OFFERING ENLIGHTENMENT AND KNOWLEDGE - IN A HURRY!**

**2:30 P.M.-4:00 P.M.**

**HBGCC 217 A**

**Moderator:** *K. Merritt, SQA2, Inc., Hampton, VA*

**Arranger/Monitor:** *C. Tobin, AIHA, Falls Church, VA.*

The IGNITE session originated in the high-technology profession but has spread worldwide. In a five-minute presentation, speakers share their professional and personal passions using 20 slides that auto advance every 15 seconds. AIHce is offering its own version of IGNITE. Learn what is on the mind of your colleagues and friends in this innovative and engaging new format. Find out why this program has become an international phenomenon and why there is always a standing-room only crowd at AIHce!

Experience firsthand what is meant by the IGNITE motto, "Enlighten us, but make it quick!"

- **Mount Everest: So You Think Your Workplace is Unsafe?** *D. Roskelley, R&R Environmental, Inc., Sandy, UT*
- **Listen, Question, Synthesize, and Act: An Unusual Aircraft Maintenance OEH Problem & Solution.** *P. Pirkle, Battelle, Atlanta, GA*
- **Fun with OEL's.** *B. Bullock, CSX Transportation, Jacksonville, FL.*
- **A GHS-Aligned Comprehensive Exposure Assessment Process.** *T. Scott, TWScott Safety & IH Services, LLC, Charlotte, NC*
- **Oh, the Places You Will Go! Travel and Photography for the IH.** *D. Weekes, InAIR Environmental, Ltd., Ottawa, Ontario, Canada*
- **Break the Pattern! Be Done with the "UN."** *D. Rusch, Antea Group, St. Paul, MN*
- **I'm H.O.T.T.!** *B. Best, Energy Resources of Australia, Ltd., Jabiru, NT, Australia*
- **"Jimmy."** *H. Fletcher, Occupational Health Risk Management, Lorn, NSW, Australia*
- **DNEL vs. OELV.** *T. Scheffers, TASC, The Netherlands*
- **MAD Science - At Grassroots.** *A. Wilson, Tata Steel, Dewsbury, UK*
- **Building a Successful IH Consulting Practice While Maintaining Your Marriage - A Cautionary Story.** *J. Klane, Arizona State University, Tempe, AZ.*
- **Why YOU should do an IGNITE presentation!** *K. Merritt, SQA2, Inc., Hampton, VA*

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**Tuesday, June 3**  
9:00 a.m. – 3:00 p.m.

**Wednesday, June 4**  
9:00 a.m. – 1:30 p.m.



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- **Use of the Stedman's Heat Index as a Tool for Preventing Heat Stress.** J. Mowrer, Sandia Laboratories, Sandia, NM.
- **A Comparison of the Different Methods and Guidelines for Evaluating Thermal Stress.** M. Shum, AMEC Environment and Infrastructure, Burnaby, BC, Canada.
- **Contextual View of Heat Stress and Strain.** T. Bernard, University of South Florida, Tampa, FL.
- **Thermal Risks and Mitigation Techniques During Space Walks.** K. Merritt, NASA Langley Research Center, Hampton, VA.

## SS002

### OCCUPATIONAL AND COMMUNITY HEALTH ISSUES ASSOCIATED WITH HYDRAULIC FRACTURING OPERATIONS

**2:00 P.M.- 5:00 P.M.**  
**HBGCC 217 B-C**

**Arranger:** W. Crawford, Kinder Morgan, Fernandina Beach, FL. **Moderator:** W. Crawford, Kinder Morgan, Fernandina Beach, FL. **Monitors:** N. Kahl, Kinder Morgan, Lakewood, CO; O. Kampa, Phillips 66 Company, Bartlesville, OK.

This roundtable will explore the occupational and community health exposure issues associated with hydraulic fracturing operations, as well as various control measures being utilized at hydraulic fracturing job

sites. Recent data on potential community exposure issues related to populations in the vicinity of hydraulic fracturing operations will also be presented.

- **Update on the National Service, Transmission, Exploration & Production Safety (STEPS) Network's Respirable Crystalline Silica Focus Group in the On-Shore Exploration and Product Industry.** R. Ingram, BP America Production Company, Victoria, TX.
- **Hydrocarbon Emissions and Risks for Worker Exposures During Well Flow-back (Completions Operations).** E. Esswein, Center for Disease Control and Prevention, Denver, CO.
- **The Use of Health Impact Assessment for a Community Undergoing Natural Gas Development.** J. Adgate, University of Colorado - Denver, Denver, CO.
- **Remote Site Health and Safety Risk Assessment, and Identifying Exposure Pathways Associated with Hydraulic Fracturing Operations.** P. Pirkle, Battelle, Atlanta, GA.
- **OSHA Proposed Silica Rule: Application and Implications to Petroleum Operations.** R. Nocco, Chevron Energy Technology Company, San Ramon, CA.

## CR315

### DEVELOPMENT OF NEW RISK ASSESSMENT TOOLS: PRACTICAL APPLICATIONS

**3:30 P.M.-4:30 P.M.**  
**HBGCC 206**

**Presenter:** G. Popov, University of Central Missouri, Warrensburg, MO.

A new risk assessment tool for EHS interventions will be presented. The tool is based on the Prevention through Design (PtD) methodology, and provides an overall blueprint for risk assessment and other organizational and business objectives. Practical application of the tools will be presented as well.

## CR316

### THE HIDDEN MILLION-DOLLAR LIABILITY: NON-LIQUID PCBs

**3:30 P.M.-4:30 P.M.**  
**HBGCC 217 D**

**Presenter:** E. VandenBosche, TTL Associates, Inc., Washington, DC.

This talk will review: PCB Chemistry; the uses, health impacts, and regulations of non-liquid PCBs (NLPCBs); and EPA's guidance document.

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- + **September 22:** Deadline for Technical Presentation Proposals

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**CALL FOR PRESENTATIONS**

# Wednesday At-a-Glance

## WEDNESDAY, JUNE 4

7:00 a.m. – 4:00 p.m.

Registration, *HBGCC, East Registration*

7:30 a.m.–5:00 p.m.

Press Room (Registered Media Representatives ONLY), *HBGCC, Bridge Hall*

7:30 a.m.–6:30 p.m.

Speaker Ready Room, *HBGCC, 209*

8:00 a.m.–9:00 a.m.

### GENERAL SESSION



#### SP07 Globalization and the Cost of Worker Health & Safety Worldwide

Scott Nova, Executive Director  
Worker Rights Consortium,  
Washington, DC

*HBGCC, Grand Ballroom C*

8:00 a.m.–4:00 p.m.

CareerAdvantage Development Fair 2014,  
*HBGCC, Bridge Hall*

9:00 a.m.–1:30 p.m.

### EXPO

Passport to Prizes, Special Displays, Cyber Center, Restaurants, Lounges. *No sessions scheduled from 9:30 a.m.–10:30 a.m. and 12:00 p.m.–1:00 p.m.*

9:00 a.m.–1:00 p.m.

### POSTER SESSIONS

*Expo*

- **PS 405** (Graduate and Undergraduate Students) Authors present 10:00 a.m.–Noon
- Student Poster Awards 12:30 p.m.–1:00 p.m.

10:00 a.m.–11:00 a.m.

- **CR317** Building an Effective, Evidence-Based, Medical Examination and Employee Fitness for Duty Program, *HBGCC, 212A/B*
- **CR318** Measuring Cognitive Bias and PSM Weak Signals, *HBGCC, 217B/C*
- **IL06** Ask the Expert with Scott Nova, *HBGCC, 214C*

10:00 a.m.–12:00 p.m.

- **P0120** Communicating Risk Characterizations: Science and Perceptions, *HBGCC, 006A/B*
- **P0121** Considerations When Selecting Chemical Protective Gloves, *HBGCC, 205*
- **P0122** Healthcare Industries II: Antineoplastic Drugs and Disinfection Issues, *HBGCC, 214B*

- **P0123** Real Time Detection Systems II, *HBGCC, 006C/D*

- **RT227** GHS - The New Hazard Communication for North America: Where Are We Now?, *HBGCC, 217D*

- **RT228** Hazard Prevention and Control for Nanomaterials, *HBGCC, 217A*

- **RT229** What Does ASTM E1527-13 Mean to You?, *HBGCC, 007A/B*

- **RT230** Recent Innovations in Sampling and Laboratory Analysis, *HBGCC, 008*

- **SP14** Bayesian and Professional Judgment Users Group, *HBGCC, 216A*

10:00 a.m.–12:30 p.m.

- **P0124** Aerosols II, *HBGCC, 214D*
- **P0125** Environmental Issues for EH&S Professionals, *HBGCC, 007C/D*

11:00 a.m.–3:00 p.m.

- **TT-02** Center for Intrepid (CFI), Brooke Army Medical Center (Pre-registration fee required), *Bus departs Hyatt, Market Street at 10:45 a.m.*

11:30 a.m.–12:30 p.m.

- **CR319** It Must Be True - I Found It On The Internet! Your Role In Appraising Health and Safety Information, *HBGCC, 217B/C*
- **CR320** Demonstrating the EHS Business Value Calculator, *HBGCC, 207*

12:30 p.m.–1:30 p.m.

- **SP09** Donald E. Cummings Award Lecture: IH Awareness in Our Society, Raising Expectations, *HBGCC, 213*

1:30 p.m.–2:30 p.m.

- **CR321** Beyond Compliance: Building a Culture of Safety, *HBGCC, 212A/B*
- **CR322** Fall Hazard Risk Assessment: Achieving Acceptable Risk, *HBGCC, 217D*

1:30 p.m.–3:30 p.m.

- **P0126** Measurement Techniques for Non-Ionizing and Ionizing Radiation, *HBGCC, 205*
- **P0127** Healthcare Industries III: Waste Anesthetic Gas Exposures, PPE Issues, Occupational Injuries, and Biological Monitoring, *HBGCC, 206*

1:30 p.m.–4:00 p.m.

- **P0128** Respiratory Protection II, *HBGCC, 207*
- **RT231** Worker Training Outreach and Response to Hurricane Sandy: An Ongoing Effort, *HBGCC, 210A/B*

1:30 p.m.–5:00 p.m.

- **P0129** Fit for Purpose: Informing Risk Characterizations with Models and Data,

*HBGCC, 006A/B*

- **P0136** IH Legal Issues, *HBGCC, 214B*
- **RT232** Implementing Engineering Controls in Construction - Needs, Challenges, and Effectiveness, *HBGCC, 006C/D*

2:00 p.m.–4:30 p.m.

- **P0131** Innovations In IH Sampling and Analysis, *HBGCC, 214C*

2:00 p.m.–5:00 p.m.

- **P0130** Fuel for Industrial Hygienists in the Oil and Gas Industry, *HBGCC, 007A/B*
- **RT233** Apps and Electronic Applications: Welcome to the 21st Century, *HBGCC, 213*
- **RT234** Global Challenge to Controlling Silica Exposure, *HBGCC, 007C/D*
- **RT235** Interesting Health Cases - Facts from the Field, *HBGCC, 008*
- **RT236** Manganese: The 2013 TLV and Biological Monitoring, *HBGCC, 214D*
- **RT237** Notable Confined Spaces, *HBGCC, 217B/C*
- **SS003** Characterizing Risks From Dermal Exposure - From Exposure Judgments to Toxicity, *HBGCC, 217A*

2:30 p.m.–5:00 p.m.

- **SP10** AIHce Movie Matinée—Blackfish: Safety when Swimming with Killer Whales, *HBGCC, 214A*

3:00 p.m.–4:00 p.m.

- **CR323** ANSI Standards: Seeing is Believing, *HBGCC, 217D*
- **CR324** Catastrophic Risk - Sewer and Water Authorities, *HBGCC, 212A/B*

5:30 p.m.–7:00 p.m.

- **P0133** Case Studies of EHS Challenges, Opportunities, and Lessons Learned in Developing Countries, *HBGCC, 210A/B*
- **P0132** Biosafety and Environmental Microbiology I, *HBGCC, 205*

5:30 p.m.–8:00 p.m.

- **RT238** West, Texas and Beyond: Explosions and Lessons Learned, *HBGCC, 217D*

Full session descriptions on the AIHce Mobile App.



# Wednesday At-a-Glance

## AIHA

### 8:00 a.m.-9:30 a.m.

- Pharmaceutical Round Robin Committee, *Hyatt, Bowie B, Level 2*

### 9:00 a.m.-4:00 p.m.

- Volunteer Red Carpet Club, *HBGCC, Bridge Hall*

### 9:30 a.m.-11:00 a.m.

- Past Presidents' Brunch (by invitation), *Hyatt, Presidio C, Level 3*

### 10:30 a.m.-11:30 a.m.

- Green Council, *Hyatt, Travis B, Level 3*

### 10:30 a.m.-12:30 p.m.

- Academic SIG, *Hyatt, Bonham B, Level 3*
- IEQ: E-Cig Project Team, *Hyatt, Bonham C, Level 3*
- Laboratory Health and Safety Committee, *Hyatt, Independence, Level 3*
- Legal Issues Committee, *Hyatt, Mission B, Level 2*
- Management Committee, *Hyatt, Presidio B, Level 3*
- Nonionizing Radiation Committee, *Hyatt, Travis A, Level 3*
- Respiratory Protection Committee, *Hyatt, Bonham D, Level 3*
- Students and Early Career Professionals Committee, *Hyatt, Bowie A/B, Level 2*

### 12:00 p.m.-1:00 p.m.

- Yellow Council, *Hyatt, Travis B, Level 3*

### 1:00 p.m.-3:00 p.m.

- Real Time Detection Systems Committee, *Hyatt, Bowie B, Level 2*

### 1:30 p.m.-2:30 p.m.

- Blue Council, *Hyatt, Travis B, Level 3*

### 2:00 p.m.-4:00 p.m.

- Aerosol Technology Committee, *Hyatt, Bonham C, Level 3*
- Clandestine Laboratories Working Group, *Hyatt, Travis A, Level 3*
- Communication and Training Methods Committee, *Hyatt, Presidio A, Level 3*
- Consultants SIG, *Hyatt, Mission B, Level 2*
- Occupational and Environmental Epidemiology Committee, *Hyatt, Independence, Level 3*

### 4:00 p.m.-6:00 p.m.

- Fellows SIG Meeting, *Hyatt, Lone Star A, Level 2*
- Permanent Conference Committee, *HBGCC, 218*

### 5:00 p.m.-7:00 p.m.

- Career and Employment Services Committee, *Hyatt, Bonham E, Level 3*

### 6:30 p.m.-8:00 p.m.

- President's Reception (by invitation), *Hyatt, Lone Star B, Level 2*

## Ancillary

### 10:00 a.m.-12:00 p.m.

- Workplace Health Without Borders, *Hyatt, Travis C/D, Level 3*

### 3:00 p.m.-6:00 p.m.

- AAR Railroad Industrial Hygiene Forum, *Hyatt, Lone Star C, Level 2*

### 6:00 p.m.-8:00 p.m.

- University of South Florida Reception, *E-mail Steve Mlynarek (smlynare@health.usf.edu) for details*

## Stewardship At-a-Glance WEDNESDAY

### PRODUCT STEWARDSHIP RISK ASSESSMENTS

#### 8:00 a.m. – 8:30 a.m.

Sustainability and Consumer Health: An Example of Consumer Health Risk Assessment

#### 8:30 a.m. – 9:00 a.m.

Human Health Risk Assessment Approaches: A Consumer Products Example

#### 9:00 a.m. – 9:30 a.m.

Ecological Risk Assessment: Approaches and Tools for Product Stewards

#### 9:30 a.m. – 10:00 a.m.

Using Ecological Risk Assessment to Demonstrate Product Safety: Lessons Learned from a Variety of Case Studies

#### 10:00 A.M. – 10:30 A.M.

### NETWORKING BREAK

#### 10:30 a.m. – 11:00 a.m.

Exposure Assessment as Input to Product Risk Assessment

#### 11:00 a.m. – 11:30 a.m.

Driving Innovation and Sustainable Solutions through Life Cycle Analyses

#### 11:30 a.m. – 12:00 p.m.

ICCA Global Product Strategy Overview

#### 12:00 P.M. – 1:30 P.M.

### NETWORKING LUNCH BREAK

### EMERGING EXTENDED PRODUCER RESPONSIBILITY REQUIREMENTS

#### 1:30 p.m. – 2:00 p.m.

Worldwide Take-back Legislation: A Challenge for Globally Acting Manufacturers

#### 2:00 p.m. – 2:30 p.m.

Managing the Expansion of EPR Fee Paying Obligations in 2014

#### 2:30 p.m. – 3:00 p.m.

Addressing Advancement of Extended Producer Responsibility Requirements

#### 3:00 P.M. – 3:30 P.M.

### NETWORKING BREAK

#### 3:30 p.m. – 4:00 p.m.

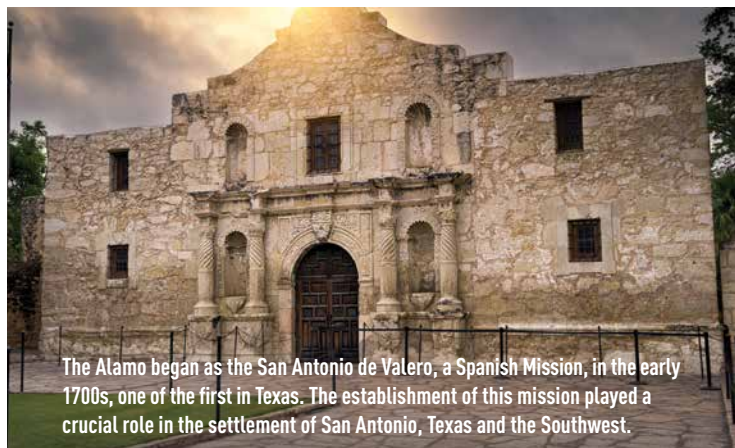
Chemicals in Products: The Emerging Global Regulations

#### 4:00 p.m. – 4:30 p.m.

Transitioning to Safer Chemicals: OSHA's Toolkit for Employers and Workers

#### 4:30 p.m. – 5:00 p.m.

Creating Value through Product Transparency and Disclosure



The Alamo began as the San Antonio de Valero, a Spanish Mission, in the early 1700s, one of the first in Texas. The establishment of this mission played a crucial role in the settlement of San Antonio, Texas and the Southwest.





## GENERAL SESSION

**8:00 A.M.-9:00 A.M.**

**HBGCC GRAND BALLROOM C**

### GLOBALIZATION AND THE COST OF WORKER HEALTH & SAFETY WORLDWIDE

*Scott Nova, Executive Director, Worker Rights Consortium, Washington D.C.*

Globalization has brought economic growth and new prosperity to many regions of the world, yet at the same time, has also brought challenges, concerns and threats to workplace health and safety. Through several fascinating case studies, predominately focused on the apparel industry, Scott Nova will describe the economic, political, and technical dynamics behind these eye-opening workplace challenges along with potential solutions and promising new models for worker protection.

## CR317

### BUILDING AN EFFECTIVE, EVIDENCE-BASED, MEDICAL EXAMINATION AND EMPLOYEE FITNESS FOR DUTY PROGRAM

**10:00 A.M.-11:00 A.M.**

**HBGCC 212 A/B**

*Presenter: H. Sandler, Sandler Occupational Medicine Associates, Inc., Melville, NY.*

The development of a job placement medical standard provides information on essential job functions and associated medical requirements. Discussed are the requirements and process a power generation business undertook in conjunction with SOMA to develop medical standards for all of its job titles, which now are a cornerstone of its workers compensation, disability and fitness for duty programs.

## CR318

### MEASURING COGNITIVE BIAS AND PSM WEAK SIGNALS

**10:00 A.M.-11:00 A.M.**

**HBGCC 217 B/C**

*Presenter: E. Giwilt, BST, Ojai, CA.*

Few organizations record weak signals—signals that do not cause concern or reaction—or understand the bias that led to their occurrence. This talk outlines a new approach to employee engagement for tracking the exposures associated with life altering injuries and PSM events.

## IL06

### ASK THE EXPERT WITH SCOTT NOVA

**10:00 A.M.-11:00 A.M.**

**HBGCC 214 C**

*Moderator: T. Nalbone, University of Texas at Tyler, Tyler, TX.*

Following today's general session, "Globalization and the Cost of Worker Health & Safety Worldwide," join Scott Nova for this interactive special session.

## P0120

### COMMUNICATING RISK CHARACTERIZATIONS: SCIENCE AND PERCEPTIONS

**10:00 A.M.-12:00 P.M.**

**HBGCC 006 A/B**

*Arranger: M. Canright, Forensic Analytical Consulting Services, East Rancho Dominguez, CA. Moderator: G. Bratt, Abingdon, MD. Monitors: J. Persky, ENVIRON International Corp., Chicago, IL; S. Anderson, Operational Integrity, SGS, Friendswood, TX.*

**10:00 A.M.-10:30 A.M.**

**SR-120-01 Empirical Modeling of Mesothelioma Potency Factors for Different Asbestos Mineral Types.** *A. Korchevskiy, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO; J. Rasmuson, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO; E. Rasmuson, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.*

**10:30 A.M.-11:00 A.M.**

**CS-120-02 Jewelry Making Exposure Risk Assessment.** *F. Boelter, ENVIRON International, Chicago, IL; J. Persky, ENVIRON International, Chicago, IL.*

**11:00 A.M.-11:30 A.M.**

**CS-120-03 Using as-Low-as Reasonably Practicable (ALARP) to Achieve Exposure Controls in Geographically and Culturally Diverse Environments.** *N. Fourie, Shell International, Dubai, United Arab Emirates; M. Karr, Shell Oil Company, Houston, TX.*

**11:30 A.M.-12:00 P.M.**

**CS-120-04 Assessment of the Risk Communication Efforts in a Community Near a PCB Waste Treatment Facility in Muroran City, Japan.** *A. Rossner, Clarkson University, Potsdam, NY; H. Miyazaki, Clarkson University, Potsdam, NY.*

## P0121

### CONSIDERATIONS WHEN SELECTING CHEMICAL PROTECTIVE GLOVES

**10:00 A.M.-12:00 P.M.**

**HBGCC 205**

*Arranger: V. Garner, HSE, SWS Environmental, Panama City Beach, FL. Moderator: R. Phalen, California State University San Bernardino, San Bernardino, CA. Monitors: K. Garg, US Department of Veterans Affairs, Tacoma, WA; C. Hintz, Victoria, TX.*

**10:00 A.M.-10:30 A.M.**

**CS-121-01 Do Glove Manufacturers' Chemotherapy Drug Permeation Data Apply in a Manufacturing Environment?** *T. Morris, Morris Innovative IH & S Solutions, Cincinnati, OH; M. Gradert, TMC Ltd., Hudson, OH.*

**10:30 A.M.-11:00 A.M.**

**SR-121-02 Permeation of 2- Butoxyethanol Through Disposable Nitrile Gloves.** *S. Banaee, S. Que Hee, University of California, Los Angeles (UCLA), Los Angeles, CA.*

**11:00 A.M.-11:30 A.M.**

**SR-121-03 Permeation of the Active Ingredients in Permanent Waving Solutions Through Protective Gloves.** *Y. Lin, H. Liang, C. Ko, Department of Public Health, Fu Jen Catholic University, New Taipei City, Taiwan*

**11:30 A.M.-12:00 P.M.**

**SR-121-04 A Novel Approach for Evaluating Performance of Protective Gloves Against Engineered Nanomaterials Under Occupational Use Conditions.** *P. Jaques, L. Portnoff, URS Corporation, Pittsburgh, PA; T. Rozzi, P. Gao, NIOSH, Pittsburgh, PA; P. Hopke, K. Wang Clarkson University, Potsdam, NY; D. Schwegler-Berry, B. Chen, NIOSH, Morgantown, WV; M. Dahm, NIOSH, Cincinnati, OH.*

## P0122

### HEALTHCARE INDUSTRIES II: ANTINEOPLASTIC DRUGS AND DISINFECTION ISSUES

10:00 A.M.-12:00 P.M.

#### HBGCC 214 B

**Arranger:** M. Jones, Iowa City VA Health Care System, Iowa City, IA. **Moderator:** J. Rice, Risk Management, Intermountain Healthcare, Salt Lake City, UT. **Monitor:** H. Reisman, VA Western New York Healthcare System, Youngstown, NY.

10:00 A.M.-10:30 A.M.

**SR-122-01 Adherence to Safe Handling Guidelines Among Healthcare Workers Who Administer Antineoplastic Drugs.** J. Boiano, A. Steege, M. Sweeney, NIOSH, Cincinnati, OH.

10:30 A.M.-11:00 A.M.

**SR-122-02 Method for the Determination of Chemotherapeutic Drugs from Surfaces.** K. Rader, M. Meiners, M. Rodriguez, Bureau Veritas North America, Lake Zurich, IL.

11:00 A.M.-11:30 A.M.

**SR-122-03 Industrial Hygiene Assessment of Cleaning and Disinfection Operations.** J. Nesbitt, D. Krageschmidt, M. Austin Mayo Clinic, Rochester, MN; Mayo Clinic, Rochester, MN.

11:30 A.M.-12:00 P.M.

**SR-122-04 Chemical Fumigation and Ultraviolet (UVC) Irradiation as Alternative Room Disinfection Modalities: Pros and Cons.** G. Byrns, Illinois State U., Normal, IL.

## P0123

### REAL TIME DETECTION SYSTEMS II

10:00 A.M.-12:00 P.M.

#### HBGCC 006 C/D

**Arranger:** W. Groves, Energy and Mineral Engineering, Penn State University, University Park, PA. **Moderator:** P. Smith, U.S. Department of Labor - OSHA, Sandy, UT. **Monitors:** E. Ligas, Draeger Safety, Inc., Pittsburgh, PA; T. Pearce, OSHA, Edmond, OK.

10:00 A.M.-10:30 A.M.

**SR-123-01 Field Measurement of Common Fumigants via Portable GC with PID & FUV Detectors.** J. MacLachlan, PID Analyzers, LLC, Sandwich, Massachusetts, MA; J. MacLachlan, PID Analyzers, LLC, Sandwich, Massachusetts, MA.

10:30 A.M.-11:00 A.M.

**SR-123-02 The Needle Trap Device as Sampler or Focusing Trap: Quantitative and Sensitivity Comparability of GC Injection Port Solvent and Thermal Desorption Analyte Introduction.** T. Juarez, S. Strating, M. Stevens, D. White Uniformed Services University of the Health Sciences, Bethesda, MD; P. Smith, U. S. Department of Labor--OSHA, Health Response Team, Salt Lake Technical Center, Sandy, UT.

11:00 A.M.-11:30 A.M.

**SR-123-03 Elimination of Sensor Maintenance by Sensor Interrogation and Correction.** T. Scheffler, Mine Safety Appliances Co., Cranberry Township, PA.

11:30 A.M.-12:00 P.M.

**SR-123-04 Estimating Integrated VOC Exposure in Near Real-Time.** E. Floyd, University of Oklahoma, Oklahoma City, OK; C. Lungu, University of Alabama at Birmingham, Birmingham, AL.

## RT227

### GHS - THE NEW HAZARD COMMUNICATION FOR NORTH AMERICA: WHERE ARE WE NOW?

10:00 A.M.-12:00 P.M.

#### HBGCC 217 D

**Arranger:** D. Deeds, Industrial Health & Safety Consultants, Inc., Shelton, CT. **Moderator:** D. Weekes, InAir Environmental Ltd, Ottawa, ON. **Monitors:** D. Gioiello, Industrial Health & Safety Consultants, Shelton, CT; S. Dawson, Dupont, Pascagoula, MS.

This roundtable will explore the NAFTA status of GHS adoption and give a brief update on the status of global implementation. Updates from OSHA, Canada, and Mexico will be provided.

- **Hazcom 2012 Update: Regulation and Guidance.** M. Ruskin, U.S. Department of Labor - OSHA, Washington, DC.
- **Hazcom 2012 Update: Challenges in Implementation.** J. Silk, Occupational Safety and Health Consultant, Valencia, PA.
- **Implementation of the GHS for Workplace Chemicals in Canada.** C. Gioiello, Industrial Health & Safety Consultants, Inc, Shelton, CT.
- **Global Implementation of the GHS.** D. Deeds, Industrial Health & Safety Consultants, Inc., Shelton, CT.

## RT228

### HAZARD PREVENTION AND CONTROL FOR NANOMATERIALS

10:00 A.M.-12:00 P.M.

#### HBGCC 217 A

**Arranger:** W. Heitbrink, LKM OSH Consulting LLC, Cincinnati, OH. **Moderator:** T. Peters, University of Iowa, Iowa City, IA. **Monitors:** W. Cyr, Cardno ChemRisk, San Francisco, CA; S. Guffey, West Virginia University, Morgantown, WV.

During recent studies, engineering control measures were observed to limit exposure to airborne engineered nanomaterials (ENPs). Join us as we discuss control measures necessary within an occupational safety and health management system, including hazard analysis techniques.

- **Field Evaluation of Engineering Controls for Nanomaterial Manufacturing.** Kevin Dunn, NIOSH, Cincinnati, OH.
- **Controlling Exposures to Engineered Nanoparticles Using Exposure Prevention and Minimization.** M. Ellenbecker, University of Massachusetts Lowell, Lowell, MA.
- **The Evolution of Engineered Controls for Containment Applications: Lessons Learned from the Pharmaceutical Industry that Are Applicable to Engineered Nanomaterial Processing.** A. George, ILC Dover, Frederica, DE.
- **Nanomaterials Exposure Management and Control Practices: Exposure Prevention and Minimization.** S. Tsai, School of Health Sciences, Purdue University, West Lafayette, IN.

## RT229

### WHAT DOES ASTM E1527-13 MEAN TO YOU?

10:00 A.M.-12:00 P.M.

#### HBGCC 007 A-B

**Arranger:** E. Erikson, Guida, Slavich, and Flores, Dallas, TX. **Moderator:** E. Erikson, Guida, Slavich, and Flores, Dallas, TX. **Monitor:** M. Schepige, Liberty Mutual Insurance Company, Lawrenceville, GA.

This session will provide an overview of the changes to the ASTM Phase I standard, a look at how vapor intrusion fits into a Phase I, and how the new standard affects the environmental professional.

- **The New ASTM E1527-13 Phase-I Environmental Site Assessment Standard.** P. Zovic, Endpoint Solutions Corp., Hales Corner, WI.
- **The New Environmental Professional.** D. Johnson, Modern Geosciences, Colleyville, TX.
- **Encroaching Changes: ASTM 1527-13 and The Vapor Pathway.** J. Sallman, Terracon Consultants, Inc., Olathe, KS.
- **Updating the Due Diligence Process.** K. Tramm, Modern Geosciences, Colleyville, TX.

## SP14

### BAYESIAN AND PROFESSIONAL JUDGMENT USERS GROUP

10:00 A.M. - 12:00 P.M.

#### HBGCC 216 A

This session provides a forum for anyone interested in sharing best practices, challenges, opportunities for strengthening exposure judgments using IH Bayesian tools, in order to build a network for all professionals that are actively utilizing Bayesian tools and professional judgment within their professional practice. Bring your experience (good and bad), tools, checklists and enthusiasm to share with fellow professionals!

## P0124

### AEROSOLS II

**10:00 A.M.-12:30 P.M.**  
**HBGCC 214 D**

*Arranger:* D. Sleeth, University of Utah, Salt Lake City, UT.  
*Moderator:* D. Sleeth, University of Utah, Salt Lake City, UT.  
*Monitor:* M. Sheehan, Department of Health, West Chester, PA.

**10:00 A.M.-10:30 A.M.**

David L. Swift Award

**10:30 A.M.-11:00 A.M.**

**SR-124-01 A Novel Method for Assessing Exposure to Welding Fume Nanoparticles.** L. Cena, M. Keane, W. Chisholm, B. Chen NIOSH, Morgantown, WV.

**11:00 A.M.-11:30 A.M.**

**SR-124-02 Assessing Sub-Micrometer and Quasi-Ultrafine Particle Exposures in Aluminum Production Facilities.** S. Liu, E. Noth, S. Hammond, University of California, Berkeley, CA; M. Cullen, Stanford University, Palo Alto, CA.

**11:30 A.M.-12:00 P.M.**

**SR-124-03 Use of and Occupational Exposure to Indium in the U.S.** C. Hines, J. Roberts, R. Andrews, NIOSH, Cincinnati, OH; M. Jackson, URS Professional Solutions/RCS Corp., Aiken, SC; J. Deddens, University of Cincinnati, Cincinnati, OH.

**12:00 P.M.-12:30 P.M.**

**SR-124-04 Assessment of Lead Aerosol and Acidic Gas Exposure During Gun Firing.** J. Wang, University of Oklahoma Health Sciences Center, Oklahoma City, OK; L. Shou, University of Florida, Gainesville, FL; C. Wu, University of Florida, Gainesville, FL.

## P0125

### ENVIRONMENTAL ISSUES FOR EH&S PROFESSIONALS

**10:00 A.M.-12:30 P.M.**  
**HBGCC 007 C/D**

*Arranger:* L. Wong, EH&S, University of California Office of the President, Oakland, CA. *Moderator:* P. Beach, San Rafael, CA. *Monitors:* S. Celly, Celly Services, Inc., Long Beach, CA; M. McGowan, Health & Safety, Reston, VA.

**10:00 A.M.-10:30 A.M.**

Rachael Carson Award

**10:30 A.M.-11:00 A.M.**

**SR-125-01 To Assess the Potential Health Risks Posed by Food Detergents in Taiwan.** W. Chen, S. Tsai, College of Public Health, National Taiwan University, Taipei, Taiwan

**11:00 A.M.-11:30 A.M.**

**SR-125-02 Establishing an Occupational Radon Standard for Federal Agencies.** A. Ornstein, LMI, San Antonio, TX; A. Sheaffer, J. Yasalonis, LMI, Belcamp, MD.

**11:30 A.M.-12:00 P.M.**

**SR-125-03 Characterization of Mercury in Baghouse Filter Dust (BFD) and the Release of Vapor Phase Mercury from Concrete Processing with BFD-Added Cement.** J. Wang, University of Oklahoma Health Sciences Center, Oklahoma City, OK; J. Hayes, C. Wu, T. Townsend, T. Vinson, J. Schert, University of Florida, Gainesville, FL.

**12:00 P.M.-12:30 P.M.**

**SR-125-04 Geospatial Analysis of Lead and Arsenic in Surface Soil in Jefferson County, Alabama.** S. Crawford, University of Alabama, Birmingham, AL.

## RT230

### RECENT INNOVATIONS IN SAMPLING AND LABORATORY ANALYSIS

**10:00 A.M.-12:00 P.M.**  
**HBGCC 008**

*Arranger:* M. Eide, OSHA Retired, Boise, ID. *Moderator:* S. Iske, University of Central Missouri, Kansas City, MO. *Monitors:* P. Kostle, State Hygienic Laboratory at Univ Iowa, Coralville, IA; P. Subramanian, North Liberty, IA.

The new methodology presented in this roundtable encompasses the need for a sampler for nanoparticles, innovations in analyzing multiple analytes on charcoal tubes, the need for a long-term sampler for methanol, and a need for a reliable sampling for formaldehyde without interferences from other aldehydes which may be present.

- **New Sampling and Analytical Techniques for Nano-Sized Particles.** K. Rickabaugh, RJ Lee Group, Inc., Monroeville, PA.
- **Development and Evaluation of a Diffusive Sampler for Long-Term Sampling of Methanol.** C. Manning, Assay Technology, Livermore, CA.
- **Determination of Formaldehyde Outgassed from Composite Wood Products Using Superficially Porous Column and High Pressure Liquid Chromatography.** G. Oishi, Sigma Aldrich, Bellefonte, PA.
- **Comparison of Impinger and Dry Sampler Data for Hydrogen Peroxide.** J. Cooper, Bureau Veritas North America Inc., Novi, MI.

## CR319

### IT MUST BE TRUE - I FOUND IT ON THE INTERNET! YOUR ROLE IN APPRAISING HEALTH AND SAFETY INFORMATION

**11:30 A.M.-12:30 P.M.**  
**HBGCC 217B/C**

*Presenter:* J. Chappel, CCOHS, Hamilton, ON, Canada.

With millions of documents available by the click of a mouse, it can be hard to tell between the good and the not-so reliable. Learn how to make an informed decision by using a critical appraisal approach to assess its validity and relevance. Highlights include evaluating health, and toxicological information from sources such as blogs, Wikis, organizations, and professional literature.

## CR320

### DEMONSTRATING THE EHS BUSINESS VALUE CALCULATOR

**11:30 A.M.-12:30 P.M.**  
**HBGCC 207**

*Presenter:* E. Biddle, NIOSH, Pittsburgh, PA.

This session will demonstrate an easy-to-use tool that calculates the business value of EHS activities through a five-step process, including hazard identification and risk assessment. The tool was designed based on an evolving AIHA Value Strategy, and also includes the ability to capture the cost and benefits of proposed EHS activities.

## SP09

### DONALD E. CUMMINGS AWARD LECTURE: IH AWARENESS IN OUR SOCIETY, RAISING EXPECTATIONS

**12:30 P.M.-1:30 P.M.**  
**HBGCC 213**

*Presenter:* M. K. Harris, Hamlin & Harris Inc., Baton Rouge, LA

Those who do not work in health, safety and environmental professions are the consumers of our services, and it is these consumers who drive societal expectations. A successful outreach effort is that which is driven and executed by our youngest peers, wherein lie opportunities for cultural change both within our profession and, most importantly, within our society. This presentation offers perspectives on IH intended to instigate and initiate these changes.





## CR321

### BEYOND COMPLIANCE: BUILDING A CULTURE OF SAFETY

**1:30 P.M.-2:30 P.M.**  
**HBGCC 212 A/B**

*Presenter: T. Hohn, UL, Northbrook, IL.*

Using case studies and a safety culture framework, this session will assist participants in examining risk reduction and mitigation strategies for their organization, including the use of analytics and leading indicators.

## CR322

### FALL HAZARD RISK ASSESSMENT: ACHIEVING ACCEPTABLE RISK

*Moderator: P. Murcell, KWA Safety & HazMat Consultants, El Dorado Hills, CA*

**1:30 P.M.-2:30 P.M.**

**HBGCC 217 D**

*Presenter: P. Zoubek, Zoubek Consulting, LLC, San Diego, CA.*

This crossover session looks at both quantitative and qualitative risk factors related to fall hazards, how to assess risk, and how to implement control measures to achieve acceptable risk.

## P0126

### MEASUREMENT TECHNIQUES FOR NON-IONIZING AND IONIZING RADIATION

**1:30 P.M.-3:30 P.M.**  
**HBGCC 205**

*Arranger: J. Lippert, University of Illinois-Chicago, Chicago, IL. Moderator: M. Philips, Occupational & Environmental Health, University of Oklahoma Health Sciences Center, Oklahoma City, OK. Monitors: G. Gruetzmacher, WI State Lab of Hygiene, UW-Madison, Madison, WI; B. Thomas, Integrated Environmental Management, Findlay, OH.*

**1:30 P.M.-2:00 P.M.**

**CS-126-01 Electric & Magnetic Field Measurement from Power Transmission Lines to Address Health Concerns.** *C. Farley, Greenleaf Americas, Lehi, UT.*

**2:00 P.M.-2:30 P.M.**

**CS-126-02 Evaluation of Precautionary Control Measures for Occupational ELF Magnetic Fields in Dutch Workplaces.** *J. Bowman, NIOSH, Cincinnati, OH; Y. Christopher-de Vries, Institute for Risk Assessment Sciences (IRAS), Utrecht, Netherlands.*

**2:30 P.M.-3:00 P.M.**

**CS-126-03 Interpretation of Radiation Measurements.** *R. Johnson, Radiation Safety Counseling Institute, Rockville, MD.*

**3:00 P.M.-3:30 P.M.**

**CS-126-04 Benefits of Monitoring Radon Concentrations in Real-Time for Periods Exceeding One Year, As Examined Through the Case Study of an Ontario Public School.** *C. Maunder, O. Malik, ECOH, Mississauga, ON, Canada*

## P0127

### HEALTHCARE INDUSTRIES III: WASTE ANESTHETIC GAS EXPOSURES, PPE ISSUES, OCCUPATIONAL INJURIES, AND BIOLOGICAL MONITORING

**1:30 P.M.-3:30 P.M.**

**HBGCC 206**

*Arranger: M. Jones, Iowa City VA Health Care System, Iowa City, IA. Moderator: G. Byrns, Illinois State University, Normal, IL. Monitors: B. Hroch, DHHS/Indian Health Service, Albuquerque, NM; P. Zanon, State of MI, Lansing, MI.*

**1:30 P.M.-2:00 P.M.**

**CS-127-01 Waste Anesthetic Gas Exposure in Hospital Recovery Rooms - the Impact of General Ventilation.** *J. Rice, Intermountain Healthcare, Salt Lake City, UT.*

**2:00 P.M.-2:30 P.M.**

**SR-127-02 How Well Can Face Shields Protect Healthcare Workers from Cough Aerosol Droplets?** *W. Lindsley, J. Noti, F. Blachere, D. Beezhold, NIOSH, Morgantown, WV; J. Szalajda, NIOSH, Pittsburgh, PA.*

**2:30 P.M.-3:00 P.M.**

**CS-127-03 Assessment and Determination of Practical Considerations for Wide-Scale Utilization of Elastomeric Half-Facepiece Respirators During a Pandemic or Outbreak Situation.** *R. Ciconte, Q. Danyluk, S. Jassal, Fraser Health, Burnaby, BC, Canada.*

**3:00 P.M.-3:30 P.M.**

**CS-127-04 Nonwage Losses Associated with Occupational Injury Among Health Care Workers.** *H. Alamgir, School of Public Health, UT, San Antonio, TX; J. Guzman, M. Koehoorn, University of BC, Vancouver, BC, Canada; E. Tompa, Institute for Work and Health, Toronto, ON, Canada*

## P0128

### RESPIRATORY PROTECTION II

**1:30 P.M.-4:00 P.M.**

**HBGCC 207**

*Arranger: N. Gaydos, Axiall Corp., Irwin, PA. Moderator: E. DeMedeiros, Honeywell, Cranston, RI. Monitors: M. Roe, 3M Company, St. Paul, MN; W. Bishop, DTE Energy, Detroit, MI.*

**1:30 P.M.-2:00 P.M.**

**SR-128-01 Development of Improved Criteria for Chemical Challenge Test Methods for Air-Purifying Respirators Aimed at Improving Inter-Laboratory Agreement of Test Results.** *C. Manning, Assay Technology, Inc., Livermore, CA.*

**2:00 P.M.-2:30 P.M.**

**SR-128-02 Comparison of Fit Factors Between a Static Advanced Headform and Human Test Subjects.** *M. Bergman, K. He, Z. Zhuang, R. Shaffer, NIOSH, National Personal Protective Technology Laboratory, Pittsburgh, PA; J. Wander, Air Force Research Laboratory, Tyndall AFB, FL; B. Hiembuch, Applied Research Associated, Inc., Panama City, FL; M. Choe, U.S. Department of Health and Human Services, Office of Assistant Secretary for Preparedness and Response, Biomedical Advanced Research and Development Authority, Washington, DC.*

**2:30 P.M.-3:00 P.M.**

**SR-128-03 Evaluation of Potential Methods for the Determination of Respirator Leakage.** *W. King, W. Monaghan, H. Sewchul, J. Szalajda, NIOSH NPPTL, Pittsburgh, PA.*

**3:00 P.M.-3:30 P.M.**

**SR-128-04 Laboratory Study to Assess Causative Factors Affecting Temporal Changes in Filtering-Facepiece Respirator Fit - Three Year Assessment of Fit Changes.** *Z. Zhuang, A. Palmiero, M. Bergman, M. Joseph, Y. Liu, R. Roberge, NIOSH, National Personal Protective Technology Laboratory, Pittsburgh, PA.*

**3:30 P.M.-4:00 P.M.**

**SR-128-05 The Effect of Air Environmental Conditions on N95 Respirator Performance.** *J. Ramirez, P. O'Shaughnessy, University of Iowa, Iowa City, IA.*

## RT231

### WORKER TRAINING OUTREACH AND RESPONSE TO HURRICANE SANDY: AN ONGOING EFFORT

**1:30 P.M.-4:00 P.M.**  
**HBGCC 210 A/B**

**Arranger:** S. Beard, NIEHS, Research Triangle Park, NC.  
**Moderator:** P. Kerr, Spectra Energy, Houston, TX. **Monitors:** L. Brown-Ellington, Loyola University Medical Center, Bolingbrook, IL; A. Burgie, Brooklyn, NY.

During this session, NIEHS will share best practices in developing and adapting training curricula to meet the need of a diverse training population, recruitment and outreach to impacted workers and communities, working effectively within a disaster response zone and evaluations to better assess the quality of the training.

- **The National Institute of Environmental Health Sciences (NIEHS) Operational Plan for Hurricane Sandy Response.** S. Beard, The National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- **Lessons Learned in Conducting Outreach and Coordinating Safety and Health Training for Superstorm Sandy Clean-up Workers.** J. Rosen, The National Clearinghouse for Worker Safety and Health Training, Schenectady, NY.

- **Developing a Training Framework Using OSHA Fatality Report and Hazard Identification.** J. Morawetz, The International Chemical Workers Union Council (ICWUC), Cincinnati, OH.
- **The United Steelworkers (USW), Tony Mazzocchi Center (TMC) Specialized Emergency Response Trainers Response to Hurricane Sandy.** F. Condell, United Steelworkers (USW), Pittsburgh, PA.
- **Protecting the Health and Safety of Hurricane Sandy Volunteers: Successes, Failures, and Opportunities.** J. Caravanos, CUNY School of Public Health, New York City, NY.

## P0129

### FIT FOR PURPOSE: INFORMING RISK CHARACTERIZATIONS WITH MODELS AND DATA

**1:30 P.M.-5:00 P.M.**  
**HBGCC 006 A/B**

**Arranger:** M. Canright, Forensic Analytical Consulting Services, East Rancho Dominguez, CA. **Moderator:** A. Rossner, Clarkson University, Potsdam, NY. **Monitor:** K. Beckner, OxyChem, Dallas, TX.

**1:30 P.M.-2:00 P.M.**

**CS-129-01 An Exposure Assessment During Use of Picotrace Workstations.** Y. Sleem, M. Akram, Columbia University, New York, NY.

**2:00 P.M.-2:30 P.M.**

**SR-129-02 Toluene in Nail Lacquers: A Proposition 65 Exposure Assessment.** L. Kopelovich, J. Keenan, Cardno ChemRisk, San Francisco, CA; N. Jacobs, Johns Hopkins University, Baltimore, MD.

**2:30 P.M.-3:00 P.M.**

**SR-129-03 Are Dermal Absorption Models Effective in Refining Dermal Exposure Assessment for Product Stewardship and Regulatory Risk Assessments?** D. Lander, W. Fasano, Dupont Company, Newark, DE.

**3:00 P.M.-3:30 P.M.**

**SR-129-04 Filling Exposure Data Gaps through Product Remanufacturing.** J. Persky, N. Fox, F. Boelter, ENVIRON International Corp., Chicago, IL.

**3:30 P.M.-4:00 P.M.**

**SR-129-05 Dropped Ceiling Installation and Maintenance: Cumulative Exposures to Asbestos Fibers.** F. Boelter, Y. Xia, J. Persky, ENVIRON International, Chicago, IL.

**4:00 P.M.-4:30 P.M.**

**CS-129-06 Baseline Water Testing and Industrial Hygiene Expertise in the High Volume Horizontal Hydrofracking Debate.** M. O'Reilly, D. Carpenter, L. Achimore, Institute for Health and the Environment, Rensselaer, NY.

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## 4:30 P.M.-5:00 P.M.

**CS-129-07 Vapor Intrusion Assessments: Identifying and Overcoming Real-World Complexities.** *B. Beadie, Maul Foster & Alongi, Inc., Portland, OR.*

## P0136

### IH LEGAL ISSUES

## 1:30 P.M.-5:00 P.M.

### HBGCC 214 B

**Arranger:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA. **Moderator:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA. **Monitors:** S. Sherman, US Department of State, Rockville, MD; B. Miller, North Wind, Inc., Idaho Falls, ID.

## 1:30 P.M.-2:00 P.M.

**SR-136-01 Kick-Off OELs for Substances With Limited Human Health Hazard Information.** *T. Scheffers, G. Wieling, C. Coucke, Dohsbase v.o.f., Eersel, Netherlands.*

## 2:00 P.M.-2:30 P.M.

**CS-136-02 Understanding OSHA's Occupational Exposure to Isocyanates National Emphasis Program (NEP).** *D. Williams, USDOL-OSHA, Washington, DC.*

## 2:30 P.M.-3:00 P.M.

**CS-136-03 Exposure to Styrene in the Composites Industry in Alberta.** *D. Radnoff, Alberta Human Services, Edmonton, AB, Canada.*

## 3:00 P.M.-3:30 P.M.

**SR-136-04 Recent Variability in Silica Analysis from Proficiency Analytical Testing (PAT) Data.** *M. Harper, K. Sarkisian, M. Andrew, CDC/NIOSH/HELD/EAB, Morgantown, WV*

## 3:30 P.M.-4:00 P.M.

**SR-136-05 Experience On the Front Lines Enabling GHS Global Compliance.** *F. Trudeau, IHS Global, Englewood, CO.*

## 4:00 P.M.-4:30 P.M.

**SR-136-06 Validating Exposure Ranges of Existing Control Band Schemes.** *T. Scheffers, G. Wieling, C. Coucke, Dohsbase v.o.f., Maastricht, Netherlands.*

## 4:30 P.M.-5:00 P.M.

**CS-136-07 Exposure and Control of Occupational Diseases: Chicago, 1910.** *J. Thelen, Michigan Occupational Safety and Health Administration, Lansing, MI.*

## RT232

### IMPLEMENTING ENGINEERING CONTROLS IN CONSTRUCTION - NEEDS, CHALLENGES, AND EFFECTIVENESS

## 1:30 P.M.- 5:00 P.M.

### HBGCC 006 C/D

**Arranger:** M. Cooper, CPWR, San Rafael, CA. **Moderator:** R. Herrick, Harvard School of Public Health, Boston, MA. **Monitors:** J. McInnis, Boilermakers International, Fall River, NS; C. Wesley, Colden Corporation, Blue Bell, PA.

Explore the results of effectiveness evaluations for specific controls designed for construction tasks. Factors that impact performance, acceptance, and use will also be covered. Using real-world examples, the reasons some controls are more readily accepted and effective than others will be examined.

- **Selling Use of LEV on Construction Job Sites - Factors to Consider.** *P. Susi, CPWR - The Center for Construction Research and Training, Silver Spring, MD.*
- **Effectiveness of Commercially Available Portable Local Exhaust Ventilation for Controlling Worker Exposures to Welding Fumes.** *J. Meeker, University of Michigan School of Public Health, Ann Arbor, MI.*
- **Pilot Test Training Program to Promote Awareness of Welding Fume Hazards and General Principles in the Correct Use of LEV Among Apprentice Welders.** *S. Caporali Filho, University of Puerto Rico - Graduate School of Public Health, San Juan, PR.*
- **Effectiveness of Dust Control Systems Tested for use During Masonry Restoration - The Sequel.** *M. Cooper, CPWR - The Center for Construction Research and Training, Berkeley, CA.*
- **Silica Dust Controls for Asphalt Pavement Milling Machines.** *D. Hammond, NIOSH, Cincinnati, OH.*
- **Exposure to Nanoparticles in Construction and Use of Existing Engineering Control Approaches.** *B. Lippy, CPWR - The Center for Construction Research and Training, Silver Spring, MD.*

## P0131

### INNOVATIONS IN IH SAMPLING AND ANALYSIS

## 2:00 P.M.-4:30 P.M.

### HBGCC 214 C

**Arranger:** J. Cooper, Bureau Veritas, Novi, MI. **Moderator:** D. Sandusky, Forensic Analytical Laboratories, Inc., Hayward, CA. **Monitors:** M. Hsieh, Abbvie, Libertyville, IL; E. Floyd, Occ. and Env. Health, University of Oklahoma, Oklahoma City, OK.

## 2:00 P.M.-2:30 P.M.

**SR-131-01 Adaptation of a CIP10 to the Sampling of 4,4'-Methylene Diphenyl Diisocyanate Aerosols.** *S. Gagné, S. Aubin, IRSST, Montréal, QC, Canada; S. Puscasu, H. Van Tra, UQAM, Montréal, QC, Canada*

## 2:30 P.M.-3:00 P.M.

**SR-131-02 Sampling and Analytical Method for Diketone Flavoring Compounds.** *J. Cooper, Bureau Veritas, Novi, MI; S. Pendergrass, NIOSH, Cincinnati, OH.*

## 3:00 P.M.-3:30 P.M.

**SR-131-04 A Modified Analytical Method for the Determination of Arsine at Low-ppb Levels by HG/GC/PID.** *J. MacLachlan, PID Analyzers, LLC, Sandwich, Massachusetts, MA.*

## 3:30 P.M.-4:00 P.M.

**SR-131-05 Improved 37mm (Diameter) Mixed Cellulose Ester Matched Weight Cassette Integrity by Cellulose O-Ring Addition.** *C. Irwin, A. Choquette, Galson Laboratories, East Syracuse, NY.*

## 4:00 P.M.-4:30 P.M.

**SR-131-06 Investigation of Relationship of Pump Pulsation Between NIOSH and EN 1232 Method.** *J. Soo, E. Lee, L. Lee, M. Kashon, M. Harper, NIOSH/HELD/EAB, Morgantown, WV.*

## P0130

### FUEL FOR INDUSTRIAL HYGIENISTS IN THE OIL AND GAS INDUSTRY

## 2:00 P.M.-5:00 P.M.

### HBGCC 007 A/B

**Arranger:** C. Mashburn, ConocoPhillips, Bartlesville, OK. **Moderator:** C. Mashburn, ConocoPhillips, Bartlesville, OK. **Monitors:** B. Randolph, Baker Hughes, Houston, TX; K. Carlson, Bureau Veritas of North America, Houston, TX.

## 2:00 P.M.-2:30 P.M.

**CS-130-01 Respirable Silica Exposures for Oil & Gas Operators During Fracking in the Eagle Ford Shale Play.** *B. Dawson, Talisman Energy USA, Inc., The Woodlands, TX.*

## 2:30 P.M.-3:00 P.M.

**CS-130-02 Occupational and Environmental Health Protection Good Practices for Hydraulic Fracturing Operations.** *M. Dupuis, Marathon Oil Company, Houston, TX.*

## 3:00 P.M.-3:30 P.M.

**SR-130-03 A Simple Ergonomic Risk Assessment Tool and Design Guidelines for the Oil, Gas, and Petrochemical Industries.** *B. McGowan, Humantech, Inc., Ann Arbor, MI.*



# Technical Sessions WEDNESDAY, JUNE 4

## 3:30 P.M.-4:00 P.M.

**SR-130-04 Noise Attenuation of Abrasive Blast Helmets.** *N. Norman, Abhe & Svoboda, Inc, Prior Lake, MN.*

## 4:00 P.M.-4:30 P.M.

**SR-130-05 The Business Case and Value of Occupational Health and Safety - Risk and Reward.** *B. Fontaine, The Windsor Consulting Group, Inc., South River, NJ.*

## 4:30 P.M.-5:00 P.M.

**CS-130-06 Increase Potential for Glucose Metabolism Interference and Retinal Microaneurysms from Carbon Disulfide (CS<sub>2</sub>) Exposure in Oil and Gas Workers: A Systematic Review.** *J. Patel, A. Rich, S. Al-Angari, University of North Texas Health Science Center, Fort Worth, TX*

## RT233

**APPS AND ELECTRONIC APPLICATIONS: WELCOME TO THE 21ST CENTURY**

## 2:00 P.M.- 5:00 P.M. HBGCC 213

**Arranger:** *D. Larson, Lawrence Livermore National Laboratory, Livermore, CA.* **Moderator:** *L. Bridges, Friendswood, TX.* **Monitors:** *J. Svagr, Stamford, CT; M. Melkonian, Medgate, Bend, OR.*

This roundtable identifies some applications that are readily available for the health and safety professional and how they have been leveraged to maximize IH effectiveness. We will explore some apps that have been by developed innovative professionals and look at key issues to address when developing your own app plus what lies ahead in the future.

- **Developing a Mobile Solution for Recording IH Air Monitoring Data.** *R. Newman, Marathon Petroleum, Findlay, OH.*
- **There's An App for That Illa.** *M. Rollins, Thermo Fisher Scientific, Waltham, MA.*

- **How Social Media Can Advance Your Training Goals.** *T. Irving, USDOL/OSHA, Braintree, MA.*
- **The Power of an IH Developed Database for Risk Assessment.** *R. Kamerzell, Lawrence Livermore National Laboratory, Livermore, CA.*
- **An IH Can Develop an App.** *M. Ochs, Arizona State University, Tempe, AZ.*
- **Looking into the Crystal Ball of IH-Based Electronic Applications.** *A. Lehocky, Board of Regents of the University System of Georgia, Atlanta, GA.*

## RT234

**GLOBAL CHALLENGE TO CONTROLLING SILICA EXPOSURE**

## 2:00 P.M.- 5:00 P.M. HBGCC 007 C/D

**Arranger:** *M. O'Reilly, School of Public Health, Manlius, NY.* **Moderator:** *M. O'Reilly, School of Public Health, Manlius, NY.* **Monitors:** *M. Levitsky, ECHO Management Inc., Mississauga, ON; J. Haney, ARLS Consultants, Inc, Manlius, NY.*

New technologies, such as sandblasting jeans and hydrofracking, as well better understanding of the effect of respirable crystalline silica (RCS) on the development of chronic obstructive pulmonary disease, lung cancer, tuberculosis and kidney disease require increased vigilance to protect workers from RCS exposures. Discover these and more challenges.

- **Current Challenges to Measure Silica Occupational Exposures in Mexico.** *J. Rodriguez, Laboratorio Microanalitico de Control, Mexico City, Mexico.*
- **Reflections on Respirable Crystalline Silica Exposure.** *A. Tien, Essroc Italcementi Group, Nazareth, PA.*
- **Exposure Assessment in Clay Brick Factories in Pakistan.** *A. Alvi, DHQ Teaching Hospital, Gujranwala, Pakistan.*

- **Estimating Respirable Dust and Silica Exposure.** *O. Malik, ECHO, Mississauga, ON, Canada.*
- **Controlling Silica Dust for Tuberculosis Prevention in High-Risk Communities.** *P. Gottesfeld, OK International, San Francisco, CA.*
- **Control Banding Strategies for Exposure to Crystalline Silica in the Cement and Aggregate Industries.** *N. Schiller, Bert Schiller and Associates, Inc, Bloomfield Hills, MI.*

## RT235

**INTERESTING OSHA HEALTH CASES: FACTS FROM THE FIELD**

## 2:00 P.M.-5:00 P.M. HBGCC 008

**Arranger:** *A. Towey, OSHA Training Institute, Arlington Heights, IL.* **Moderator:** *A. Towey, OSHA Training Institute, Arlington Heights, IL.* **Monitors:** *M. O'Donnell, McLean, VA.*

This session is designed to highlight six OSHA investigations that are outside the norm, or of particular interest. Following the example of the Glen Williamson Forum, we will review the findings of some of OSHA's most interesting enforcement cases, serving to enlighten all regarding industrial hygiene practice in American workplaces.

- **Reducing Chrome VI Exposures in a Welding Process Below the PEL.** *M. Bopp, USDOL-OSHA, Independence, OH.*
- **Complex TB Case in Health Care Setting.** *R. Krochmalnyckyj, OSHA, Hartford, CT.*
- **The Manufacture of Alternative Water Treatment Chemicals: Control Challenges with Corrosives.** *R. Caldarelli, OSHA, Center Valley, PA.*
- **Double Bonds and Half Lives – Application of Biomarkers to Determine Benzene Exposure.** *H. Canally, OSHA, Philadelphia, PA.*

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- **Perils of Toluene in a Screen Coating Facility.** *M. Wacker, OSHA, Madison, WI.*
- **Near-Fatal CO Exposures in Blasting Operation.** *E. Hoyson, OSHA, Wilkes-Barre, PA.*

## RT236

### MANGANESE: THE 2013 TLV AND BIOLOGICAL MONITORING

2:00 P.M.-5:00 P.M.

#### HBGCC 214 D

**Arranger:** S. Que Hee, Univ California Los Angeles, Los Angeles, CA. **Moderator:** K. Diep, American Airlines, Fort Worth, TX. **Monitor:** C. Elish, Euless, TX.

This roundtable will discuss the state of the art responsible for the 2013 lowering of the air TLV and its impact on biological monitoring. Attention will be primarily paid to non-invasive biological monitoring sampling such as hair and nail analysis, and urinalysis, but bone and blood analyses will also be addressed.

- **The 2013 Manganese TLV: Their Representativeness, and How Appropriate They Are for Welders.** *M. Harris, Hamlin & Harris, Inc., Baton Rouge, LA.*
- **What Needs to be Done in the Field to Achieve the New Manganese TLV?** *D. Chute, DNA Industrial Hygiene, Reston, VA.*
- **Anecdotes of Manganese Dusts and Fume and What Difficulties There Are in Sampling and Analysis.** *D. Napier, DNA Industrial Hygiene, Manhattan Beach, CA.*
- **Hair as a Non-invasive Biomarker for Welder Exposure to Manganese.** *B. Reiss, Univ Washington, Seattle, WA.*
- **Manganese (Mn) in Bone: A Novel Biomarker for Risk Assessment?** *W. Zheng, Purdue University, West Lafayette, IN.*
- **Biomonitoring Strategies for Manganese and Welding-related Neurological Risks.** *K. Sriram, NIOSH, Morgantown, WV.*

## RT237

### NOTABLE CONFINED SPACES

2:00 P.M.-5:00 P.M.

#### HBGCC 217 B-C

**Arranger:** W. Brown, Retired, Fairborn, OH. **Moderator:** W. Brown, Retired, Fairborn, OH. **Monitor:** C. Dellacqua, Amgen, Thousand Oaks, CA.

Health and safety professionals will present typical and unusual examples of confined space entries and confined space entry problems that they have faced in their respective jobs, as well as outcomes and solutions that were proposed to resolve the issues faced.

- **How Failure to Address Changes in Conditions Led to a Confined-Space Fatality.** *M. Palmer, EnSafe, Inc, Knoxville, TN.*

- **Wind Turbine Confined Spaces.** *J. Tyler, Vestas American Wind Technology, Inc., Portland, OR.*
- **Aluminum Fabrication Welding and Ship Construction.** *T. McManus, Northwest Occupational Health and Safety, Universidade Federal Fluminense, Niteroi, RJ, Brazil*
- **Contraband: How the Coast Guard Manages Confined-Space Hazards at Sea.** *L. Weems, Center for Toxicology and Environmental Health, LLC, North Little Rock, AR.*
- **Hazard Assessment: "If You Don't Know Where You Are Going ..."** *T. McManus, NorthWest Occupational Health & Safety, Universidade Federal Fluminense, North Vancouver, BC, Canada*
- **Fuel for the Fire: Oxygen-Enriched Environments in Confined Spaces.** *S. Thomas, Oregon OSHA, Bend, OR.*

## SS003

### CHARACTERIZING RISKS FROM DERMAL EXPOSURE: FROM EXPOSURE JUDGMENTS TO TOXICITY

2:00 P.M.-5:00 P.M.

#### HBGCC 217 A

**Arranger:** J. Walton, 3M, St. Paul, MN. **Moderator:** G. Day, Federal Aviation Administration, Oklahoma City, OK. **Monitors:** R. Burton, 3M, Maplewood, MN; T. Blodgett, 3M, St. Paul, MN.

This roundtable will discuss various methods used to characterize dermal exposure, including qualitative and quantitative modeling, use and derivation of dermal DNELs, updated skin notations, and use of a decision support system for use in chemical emergencies.

- **Update of the NIOSH Skin Notation Project.** *S. Dotson, NIOSH, Cincinnati, OH.*
- **A New Qualitative Dermal Exposure Assessment Tool.** *S. Paradis, 3M, St. Paul, MN.*
- **IH Decision Making for Dermal Exposure Scenarios.** *J. Sahmel, Cardno Chemrisk, Boulder, CO.*
- **Dermal DNELs.** *R. Roy, 3M, St. Paul, MN.*
- **Quantitative Dermal REACH Exposure Assessments.** *J. Walton, 3M, St. Paul, MN.*
- **Managing Dermal Risks During Chemical Emergencies.** *A. Maier, University of Cincinnati College of Medicine, Cincinnati, OH.*

## SP10

### AIHCE MOVIE MATINÉE—BLACKFISH: SAFETY WHEN SWIMMING WITH KILLER WHALES

2:30 P.M.-5:00 P.M.

#### HBGCC 214 A

**Arranger:** S. Schneider, Laborers' Health & Safety Fund, Washington, DC.

Attend the thought-provoking screening of "Blackfish" (83 minutes), which includes an interactive post-film discussion of the issues raised from the perspective of a safety and health professional.

## CR323

### ANSI STANDARDS: SEEING IS BELIEVING

3:00 P.M.-4:00 P.M.

#### HBGCC 217 D

**Presenter:** C. Fromeyer, Edge Eyewear, Layton, UT.

This informational course will provide the tools for safety professionals to make better-informed decisions as they fulfill their responsibilities to decrease company liability and protect people's eyes.

## CR324

### CATASTROPHIC RISK: SEWER AND WATER AUTHORITIES

3:00 P.M.-4:00 P.M.

#### HBGCC 212 A-B

**Presenter:** D. Mahoney, Glatfelter Public Practice, Exton, PA.

This session will review catastrophic risk scenarios of sewer and water authorities (flooding, security, and other vulnerabilities), and includes photos of sewer and water equipment and materials that present uncontrolled risks to the operations.

## P0133

### CASE STUDIES OF EHS CHALLENGES, OPPORTUNITIES, AND LESSONS LEARNED IN DEVELOPING COUNTRIES

5:30 P.M.-7:00 P.M.

#### HBGCC 210 A-B

**Arranger:** K. Garg, US Department of Veterans Affairs, Tacoma, WA. **Moderator:** T. Fuller, Health Sciences, Illinois State University, Bloomington, IL. **Monitors:** M. Andrew, Sumerra, Portland, OR; D. Rodriguez, Innovare EHS, SA de CV, Mexico D.F., Mexico.

5:30 P.M.-6:00 P.M.

**CS-133-01 Due Diligence Audits at Pharmaceutical Contract Manufacturing Sites in India: Lessons Learned.** *P. Kondragunta, International Safety Systems, Inc., Vadodara, India; M. Mehta, International Safety Systems, Inc., Vadodara, India.*

6:00 P.M.-6:30 P.M.

**CS-133-02 Investigation of Deaths Possibly Associated with Acute Silicosis Caused by High Exposure to Free Silica in Quartz Grinding and Mixing Factories Around Lahore-Pakistan.** *S. Awan, Center for the Improvement of Working Conditions & Environment, Lahore, Pakistan.*



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## 6:30 P.M.-7:00 P.M.

**CS-133-05 Lessons Learned in Implementing H&S in a Developing Country.** *M. Hrycushko, GMCL, St. Catharines, ON, Canada.*

## P0132

### BIOSAFETY AND ENVIRONMENTAL MICROBIOLOGY I

## 5:30 P.M.-7:00 P.M.

### HBGCC 205

**Arranger:** M. Nonnenmann, Occupational and Environmental Health, University of Iowa, Iowa City, IA. **Moderator:** M. Nonnenmann, Occupational and Environmental Health, University of Iowa, Iowa City, IA. **Monitors:** D. Hurley, KABA Access Systems, Winston-Salem, NC; M. Cooper, Exponent, Menlo Park, Switzerland.

## 5:30 P.M.-6:00 P.M.

**SR-132-01 What is the Public Health Risk from Legionella Pneumophila in Whirlpool Spas?** *T. Armstrong, TWA8HR Occupational Hygiene Consulting, LLC, Branchburg, NJ.*

## 6:00 P.M.-6:30 P.M.

**SR-132-02 Improvement and Performance Testing of Andersen Single-Stage Bioaerosol Sampler.** *W. Lin, C. Lai, A. Kuo, Y. Lin, Chung Shan Medical University, Taichung, Taiwan*

## 6:30 P.M.-7:00 P.M.

**SR-132-04 Factors Influencing Hand-to-face Contact Among Biosafety Level-2 Research Laboratory Workers.** *J. Johnston, D. Eggett, Brigham Young University, Provo, UT; M. Johnson, University of Utah, Salt Lake City, UT.*

## 7:00 P.M.-7:30 P.M.

**CS-132-05 Implementing Proficiency Demonstration in Biosafety Level 2 Research Laboratories.** *K. Nobrega, ESIS Health, Safety and Environmental Services, London, United Kingdom; N. Kho, Gilead Sciences, Foster City, CA.*

## RT238

### WEST, TEXAS AND BEYOND: EXPLOSIONS AND LESSONS LEARNED

## 5:30 P.M.-8:00 P.M.

### HBGCC 217 D

**Arranger:** D. Hornung, Cal/OSHA, Oakland, CA. **Moderator:** D. Hornung, Cal/OSHA, Oakland, CA. **Monitors:** D. Mokadam, AFA-CWA, Washington, DC; C. Becnel, DM Petroleum Operations Company, New Orleans, LA.

This roundtable will focus on the West Fertilizer Company of West, Texas, explosion as well as the July 6, 2012, Chevron refinery

explosion, explosion prevention, and community preparedness.

- **Explosion Prevention/Protection of Conveyance Systems.** *L. Hathon, OSHA, Sandy, TX.*
- **Lessons from the West, Texas Explosion.** *R. Moure-Eraso, U.S. Chemical Safety Board, Washington, D.C.*
- **West, Texas—The Investigation: Crime Scene to Hazard Stabilization.** *K. Kistner, Texas State Fire Marshall, Austin, TX.*
- **The Aftermath of the Chevron Richmond Fire in California.** *C. Trombetta, Cal/OSHA, Concord, CA.*
- **Community Preparedness and Response Following Three Explosions in Louisiana.** *S. Rodrigue, DM Petroleum Operations Company, Plaquemine, LA.*

Full session descriptions on the AIHce Mobile App.



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**Frank Britton** - 604.940.8741  
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[fbritton@cetci.com](mailto:fbritton@cetci.com)

# Thursday At-a-Glance

## THURSDAY, JUNE 5

**7:00 a.m. – 10:30 a.m.**

Registration, *HBGCC, East Registration*

**7:30 a.m.-4:30 p.m.**

Speaker Ready Room, *HBGCC, 209*

**8:00 a.m.-5:00 p.m.**

**SP11** Train the Trainer Workshop: Improving IH Exposure Judgments, *HBGCC, 216A*

**8:30 a.m.-9:30 a.m.**

**CR325** Industrial Ecology, *HBGCC, 212A/B*

**CR326** Zero Incident Goals Create Risk-Taking Cultures: Learn to Measure What Matter, *HBGCC, 214B*

**8:30 a.m.-10:30 a.m.**

**P0134** Protecting the Public and Workers Before, During, and After the Incident, *HBGCC, 205*

**8:30 a.m.-11:00 a.m.**

**P0135** Industrial Hygiene General Practice I, *HBGCC, 210A/B*

**RT239** Protecting Workers from Hazardous Drug Exposures in Healthcare - Current Practices, Knowledge Gaps, and Regulations, *HBGCC, 217D*

**8:30 a.m.-11:30 a.m.**

**RT240** One Man, Two Governors: What IH Standards Do We Follow Overseas?, *HBGCC, 214D*

**8:30 a.m.-12:00 p.m.**

**RT241** Understanding ISO Respiratory Protective Device Standards, *HBGCC, 214C*

**RT242** Workforce Issues in Construction: How to Manage an Aging, Transient, and Multicultural Site, *HBGCC, 217B/C*

**8:30 a.m.-12:30 p.m.**

**P0137** Advances in Green Building, *HBGCC, 217A*

**SS004** Setting Occupational Exposure Limit for Nanomaterials: Strategies and Progress, *HBGCC, 207*

**9:00 a.m.-11:00 a.m.**

**SP12** SDS Authoring and Reviewing, and IH Insomnia: What's keeping you up at night?, *Hyatt, Presidio C, Level 3*

**9:00 a.m.-12:00 p.m.**

**TT-03** Sea World San Antonio (Pre-registration fee required), *Bus departs Hyatt, Market Street, at 8:45 a.m.*

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

**SP13** Herbert E. Stokinger Award Lecture: TLVs® or No TLVs®? That is the Question for the Future, *HBGCC, 205*

**12:30 p.m.-1:30 p.m.**

**CR327** Developing a Product-Based Environmental Management System, *HBGCC, 212A/B*

**12:30 p.m.-3:00 p.m.**

**P0138** Hearing Conservation II: Controls & Community Noise, *HBGCC, 214B*

**12:30 p.m.-4:00 p.m.**

**P0139** Risk Reduction: Focusing Resources to Maximize Benefits, *HBGCC, 217B/C*

**12:30 p.m.-4:30 p.m.**

**RT243** Asbestos and the Society: Perception of an Acceptable Risk Level, *HBGCC, 206*

**RT244** Crystalline Silica Exposures in Construction, *HBGCC, 214D*

**1:00 p.m.-3:30 p.m.**

**RT245** Business Benefits of Sustainability and Product Stewardship, *HBGCC, 217A*

**RT246** Corporate Social Ethics: A Global Look, *HBGCC, 217D*

## AIHA

**7:00 a.m.-9:30 a.m.**

**IOHA 2018 Planning Meeting** (by invitation), *Hyatt, Goliad, Level 2*

**8:30 a.m.-10:30 a.m.**

**Annual Business Meeting**, *Hyatt, Travis A, Level 3*

**9:00 a.m.-10:00 a.m.**

**Volunteer Group Chairs Meeting**, *Hyatt, Bonham D, Level 3*

**10:30 a.m.- 11:30 a.m.**

**Volunteer Group Secretaries Orientation**, *Hyatt, Bonham D, Level 3*

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

**Board of Directors Meeting**, *Hyatt, Presidio B, Level 3*

## Stewardship At-a-Glance THURSDAY

### PRODUCT STEWARDSHIP MANAGEMENT SYSTEMS

**8:00 a.m. – 8:30 a.m.**

**National Aerospace Standard 411** Overview and Update

**8:30 a.m. – 9:00 a.m.**

**ChemStewards – A Management System** Designed by and for Small and Mid-sized Chemical Enterprises

**9:00 a.m. – 9:30 a.m.**

**ChemStewards – A Management System** Designed by and for Small and Mid-sized Chemical Enterprises

**9:30 a.m. – 10:00 a.m.**

**Appliance Industry & Sustainability**

**10:00 A.M. – 10:30 A.M.**

**NETWORKING BREAK**

### VALUE CHAIN / SUPPLY CHAIN CHALLENGES, COMMUNICATION

**10:30 a.m. – 11:00 a.m.**

**Perspectives on Sharing Safety and Regulatory Information Along the Value Chain**

**11:00 a.m. – 11:30 a.m.**

**Customer/Market Deselection of Chemicals – What Does it Mean?**

**11:30 a.m. – 12:00 p.m.**

**Closing Remarks**

Full session descriptions on the AIHce Mobile App.



## SP11

### TRAIN THE TRAINER WORKSHOP: IMPROVING IH EXPOSURE JUDGMENTS (pre-registration required)

8:00 A.M.-5:00 P.M.  
HBGCC 216A

*NOTE: This Workshop is limited to academic faculty and current students in IH training programs. Participants must bring a laptop.*

This workshop will enhance attendee skills and knowledge on techniques for analyzing data in the exposure assessment process while providing tools, tips, and techniques for teaching those skills to others. Participants will be introduced to a package of presentation slides, exercises and data analysis tools.

## CR325

### INDUSTRIAL ECOLOGY

8:30 A.M.-9:30 A.M.  
HBGCC 212 A-B

*Presenter: M. O'Reilly, Empire State College, Syracuse, NY.*

Learn the field of Industrial Ecology (IE), which integrates environmental health science, social science and economics in response to the challenges created by ever-increasing demand for energy, raw materials and clean water, often using life-cycle analysis to achieve its goal.

## CR326

### ZERO INCIDENT GOALS CREATE RISK-TAKING CULTURES: LEARN TO MEASURE WHAT MATTERS

8:30 A.M.-9:30 A.M.  
HBGCC 214 B

*Presenter: T. Mathis, ProAct Safety Inc., The Woodlands, TX.*

This session clearly outlines the difference and provides a framework to achieve sustainability, the biggest differentiator of zero-incident programs and goals.

## P0134

### PROTECTING THE PUBLIC AND WORKERS BEFORE, DURING, AND AFTER THE INCIDENT

8:30 A.M.-10:30 A.M.  
HBGCC 205

*Arranger: E. Primeau, US Coast Guard, Fort Dix, NJ. Moderator: L. Weems, Industrial Hygiene, CTEH, N Little Rock, AR. Monitor: S. Rosen, DTCC, Wilmington, DE.*

8:30 A.M.-9:00 A.M.

**CS-134-01 Sour Gas Pipelines: How Do You Protect the Public in the Eagle Ford Shale Play?** *B. Dawson, Talisman Energy USA, Inc., The Woodlands, TX.*

9:00 A.M.-9:30 A.M.

**CS-134-02 OSHA's Heat-Related Illness Campaign: Three Years of Enhanced Enforcement and Outreach.** *G. Lamson, OSHA Salt Lake Technical Center, Sandy, UT.*

9:30 A.M.-10:00 A.M.

**CS-134-03 Evaluating Employee Exposure to Selected Air Contaminants in the Aftermath of Hurricane Sandy.** *K. Jaggassar, A. Stangroom, C. Briggs, ENVIRON International, Boston, MA.*

10:00 A.M.-10:30 A.M.

**CS-134-04 Lessons in CSR from Katrina and Sandy.** *W. Sothorn, Microecologies, Inc., New York, NY.*

## P0135

### INDUSTRIAL HYGIENE GENERAL PRACTICE I

8:30 A.M.-11:00 A.M.  
HBGCC 210 A-B

*Moderator: D. Day, Law, Sealed Air Corporation, Duncan, SC.*

8:30 A.M.-9:00 A.M.

**CS-135-01 Characterization of Combustion-by-Products (char, ash, and soot) in Real-Life Samples and Obtained by Simulation in Laboratory.** *E. Mirica, EMSL Analytical, Cinnaminson, NJ.*

9:00 A.M.-9:30 A.M.

**CS-135-02 Asbestos as an Ingredient: Mineral, Formula, and Analytical Considerations for Reformulation.** *J. Persky, N. Fox, F. Boelter, ENVIRON International Corp., Chicago, IL.*

9:30 A.M.-10:00 A.M.

**CS-135-03 Talaromycetes Columbinus sp. nov., Potentially New Human Pathogen.** *J. Dobranic, EMSL Analytical, Inc., Cinnaminson, NJ.*

10:00 A.M.-10:30 A.M.

**CS-135-04 Exposures Associated with the Manufacture of Indium-Tin Oxide (ITO) Tiles at a Production Facility.** *M. Virji, A. Stefaniak, M. Stanton, J. Armstrong, K. Kreiss, K. Cummings, NIOSH-Division of Respiratory Disease Studies, Morgantown, WV; J. Park, Institute of Health and Environment, Seoul National University, Seoul, Republic of Korea.*

10:30 A.M.-11:00 A.M.

**CS-135-05 Collision Auto Repair Safety Study (CARSS): Are Health and Safety Improvements Sustainable?** *D. Parker, M. Skan, M. Xi, Park Nicollet Institute, Minneapolis, MN; L. Brosseau, University of Illinois, Chicago, IL.*

## RT239

### PROTECTING WORKERS FROM HAZARDOUS DRUG EXPOSURES IN HEALTHCARE - CURRENT PRACTICES, KNOWLEDGE GAPS, AND REGULATIONS

8:30 A.M.-11:00 A.M.  
HBGCC 217 D

*Arranger: M. Zock, FedEx Ground, Moon Township, PA. Moderator: S. Carry, Kaiser Permanente, Oakland, CA. Monitor: M. Zock, FedEx Ground, Moon Township, PA.*

This session will explore the current state of practice in healthcare for preventing occupational exposures to hazardous drugs, gaps in knowledge regarding risk, and the approach to preparing for compliance with a new regulation.

- **Past, Present, and Future of Hazardous Drugs.** *T. Connor, NIOSH, Cincinnati, OH.*
- **Identifying Sources of Contamination in the Pharmacy, Assessing Health Risks and Controlling Exposure.** *J. Farris, Safebridge Consultants, Mountain View, CA.*
- **Best Practice Safety Tools for Pharmacists Handling Hazardous Drugs.** *L. Lee, Pacific Industrial Hygiene, LLC, Kirkland, WA.*
- **An Approach to Mitigating the Impacts of Implementing Hazardous Drug Regulations.** *A. Lundeen, Washington State Dept of Labor and Industries, Olympia, WA.*
- **Worker Protection on Par with Patient Safety - Developing, Implementing, Monitoring and Improving a Program for the Safe Handling of Hazardous Drugs in the Healthcare Setting.** *M. McCullough, Dana Farber Cancer Institute, Boston, MA.*

## RT240

### ONE MAN, TWO GOVERNORS: WHAT IH STANDARDS DO WE FOLLOW OVERSEAS?

8:30 A.M.-11:30 A.M.  
HBGCC 214 D

*Arrangers: C. Hovde, Caterpillar Inc, Peoria, IL; A. Korchevskiy, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO. Moderator: M. Wan, EOH Consulting, Saint Petersburg, FL. Monitors: M. Cooper, Exponent, Menlo Park; O. Malik, ECOH, Mississauga, ON, Canada.*

This session will provide practicing occupational hygienists with information necessary for the effective governance of the IH issues while operating overseas, to ensure better protection of the workers.

**Occupational Health and Safety Rules and Regulations in India and China: Vision from USA.** *J. Singh, JAS International LLC, Honolulu, HI.*



**IH Regulations in Brazil from the International Perspective.** *M. Da Silva, EHS Consultants, Sao Paulo, Brazil.*

**The Former Soviet Union: IH Paradigms for the Overseas Companies.** *A. Korchevskiy, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.*

**Past and Future of IH Related Legislation in EU: Anticipation of the Trends.** *J. Gromiec, Nofer Institute of Occupational Medicine, Lodz, Poland.*

**Occupational Hygiene in Canada: A Federal or Provincial Matter?** *L. Renton, BluMetric Environmental Inc., Ottawa, ON, Canada*

**Challenges and Opportunities in Establishing a Global Program for EHS.** *C. Hovde, Caterpillar Inc, Peoria, IL*

## RT241

### UNDERSTANDING ISO RESPIRATORY PROTECTIVE DEVICE STANDARDS

**8:30 A.M.-12:00 P.M.**  
**HBGCC 214 C**

**Arranger:** R. Metzler, Richard W Metzler Inc, Houston, PA.  
**Moderator:** R. Metzler, Richard W Metzler Inc, Houston, PA.  
**Monitors:** J. Johnson, JSJ and Associates, Pleasanton, CA; N. Gaydos, Axiall Corp., Irwin, PA.

This roundtable will educate conference attendees on what these ISO standards are, how they compare to U.S. standards, and potential national and international benefits and challenges of ISO respiratory protective device standards used in the U.S.

- **ISO Classification of Respiratory Protection Versus What We Have Today.** *G. Betsinger, 3M, St. Paul, MN.*
- **Validation of the ISO Protection Levels: Initial Steps.** *M. Clayton, Buxton, England, UK*
- **ISO Respirator Work Rate Classifications, A New Concept?** *W. King, NIOSH, Pittsburgh, PA.*
- **Breathing Patterns and Volumes Recorded in the Workplace in Correlation with ISO Work Rates.** *G. Powe, Safety Equipment Australia Pty Ltd, Warriewood, NSW, Australia.*
- **Practical Concerns for Health and Safety Practitioners.** *L. Janssen, Larry Janssen LLC, Stillwater, MN.*
- **Addressing Implementation Considerations: How do ISO RPD Standards and 42CFR84 Compare?** *C. Miller, NIOSH, Pittsburgh, PA.*

## RT242

### WORKFORCE ISSUES IN CONSTRUCTION: HOW TO MANAGE AN AGING, TRANSIENT, AND MULTICULTURAL SITE

**8:30 A.M.-12:00 P.M.**  
**HBGCC 217 B-C**

**Arranger:** J. Ellis, ENVIRON, Princeton, NJ. **Moderator:** J. Skrabak, Marshfield, MA. **Monitors:** J. McInnis, Boiler-makers International, Fall River, NS; R. Suga, Knoxville, TN.

The construction sector continues to be a challenge to manage safely. It is a diverse workplace consisting of a wide range of ages, cultures, professions, and varying levels of healthy habits. This roundtable will present current issues in the construction workforce and how they affect safety.

- **Employee Exposures in Construction & Strategies to Overcome the Difficulties of Sample Collection.** *D. Regelbrugge, ENVIRON, Chicago, IL.*
- **The Role of Task Hazard Analyses (THAs) at Construction Sites.** *C. Corpuz, Geosyntec Consultants, Oakland, CA.*
- **From Electrician to Industrial Hygienist: An Inside View of the Construction Industry.** *J. Lang, ENVIRON, Chicago, IL.*
- **Relentless: The Sticker Program.** *P. Haas, West Lake Property Management, E&P, Houston, TX.*
- **Welder Electrocutation: A Confluence of Multiple Safety Program Shortcomings.** *J. Persky, ENVIRON, Chicago, IL.*
- **Safety and Health Considerations of the Older Construction Worker with Tips/Techniques to Promote their Safety and Health for a More Productive and Rewarding Worksite for All.** *P. Rice, Click Safety, Walnut Creek, CA.*
- **Institutional Trust and Cultural Impacts Among Northern New Mexico Native American Tribal Members During Construction Projects.** *M. Pannell, Springfield, VA.*

## P0137

### ADVANCES IN GREEN BUILDING

**8:30 A.M.-12:30 P.M.**  
**HBGCC 217 A**

**Arranger:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA. **Moderator:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA. **Monitors:** R. Herrick, Herrick Engineering, Cary, NC; J. Lewis, Maryland Dept of Environment, Westminster, MD.

**8:30 A.M.-9:00 A.M.**

**CS-137-01 VOC Investigations: What's in the Air?** *A. Delia, Prism Analytical Technologies, Inc., Mt. Pleasant, MI.*

**9:00 A.M.-9:30 A.M.**

**CS-137-02 Spray and Contact Chemical Products: The Hidden Dangers and Enhanced Risks.** *C. Abraham, Scientific Advisory Services, Ltd, Great Neck, NY.*

**9:30 A.M.-10:00 A.M.**

**SR-137-03 Comparison of Selected Air Contaminants in Homes Before and After Two Weatherization Protocols.** *S. Cali, University of Illinois at Chicago, Chicago, IL; W. Rose, P. Francisco, University of Illinois at Urbana-Champaign, Champaign/Urbana, IL; J. Breyse, D. Jacobs, National Center for Healthy Housing, Columbia, MD.*

**10:00 A.M.-10:30 A.M.**

**SR-137-04 Do Weatherization and Rehabilitation of Low-Income Housing Using Green Healthy Homes Techniques Improve Health Outcomes and Indoor Environmental Quality—Three Recently Completed Studies.** *D. Jacobs, L. Conroy, C. Murphy, University of Illinois at Chicago, Chicago, IL; S. Dixon, J. Breyse, National Center for Healthy Housing, Washington, D.C.*

**10:30 A.M.-11:00 A.M.**

**CS-137-05 Concerns with Microbial Contamination in Cellulose Fireproofing.** *B. Caddick, P. Morey, ENVIRON, Chicago, IL; C. Yang, Prestige, Voorhees, NJ.*

**11:00 A.M.-11:30 A.M.**

**CS-137-06 Efficacy of IAQ Standards Based on Contaminant Concentrations.** *E. Light, J. Bailey, Building Dynamics, LLC, Ashton, MD.*

**11:30 A.M.-12:00 P.M.**

**CS-137-07 Elimination of Lead in Powder Actuated Tool Use in LEED High Rise Construction - A Success Story.** *P. Haas, Ever Green Health and Safety Consulting LLC, Palm Beach Gardens, FL; D. Isenberg, E. Stevenson, CSPI, Lafayette, LA.*



## SS004

### SETTING OCCUPATIONAL EXPOSURE LIMIT FOR NANOMATERIALS: STRATEGIES AND PROGRESS

8:30 A.M.-12:30 P.M.  
HBGCC 207

**Arranger:** S. Tsai, Purdue University, West Lafayette, IN.  
**Moderator:** S. Tsai, Purdue University, West Lafayette, IN.  
**Monitors:** J. Hellerstein, MeadWestvaco, Richmond, VA; W. Cyrs, Cardno ChemRisk, San Francisco, CA.

This roundtable aims to facilitate engaged discussions (two for 80 min) with broader practical audiences in the industrial settings to further develop strategies for setting OELs. In addition to the presentations of current progress, a presentation with global view of key challenges from industry, scientific, and regulatory perspectives will take place.

- **Exploring the Engineered Nanomaterial Exposure Risk Assessment Toolbox.** R. Goldman, 3M Center, Paul, MN.
- **Nanoparticle Dosimetry in the Respiratory Tract: Do Traditional Approaches for OEL Development Serve Us Well?** A. Elder, University of Rochester Medical Center, Rochester, NY.
- **Sampling and Analytical Considerations Related to Occupational Exposure Limits for Various Nanomaterials.** J. Baker, Bureau Veritas North America, Houston, TX.
- **Sampling and Analytical Considerations Related to Occupational Exposure Limits for Various Nanomaterials.** A. Segrave, Bureau Veritas North America, Kennesaw, GA.
- **Approaches to Data Requirements to Set OEL Values: An Industry Perspective.** R. David, BASF, Florham Park, NJ.
- **Issues in Establishing Categorical OEL for Nanomaterials.** P. Schulte, Occupational Safety and Health Administration, Cincinnati, OH.
- **Issues Current Best Practices for Responsible Development of Nanotechnology: An OSHA Perspective.** J. Carter, OSHA, Washington D.C.

## SP12

### SDS AUTHORIZING AND REVIEWING, AND IH INSOMNIA: WHAT'S KEEPING YOU UP AT NIGHT? (pre-registration required)

9:00 A.M.-11:00 A.M.  
GRAND HYATT, PRESIDIO C

**Moderator:** R. Skoglund, 3M, St. Paul, MN.

This session, facilitated by Registered SDS Authoring Specialists, will be a roundtable discussion where you can bring your issues and get answers. This is not a presentation, but an interactive session, where subject matter experts will address your key issues in small group discussions.

## SP13

### HERBERT E. STOKINGER AWARD LECTURE: TLVs® OR NO TLVs®? THAT IS THE QUESTION FOR THE FUTURE

11:30 A.M.-12:30 P.M.  
HBGCC 205

This award is given each year to an individual who has made a significant contribution to the broad field of industrial and environmental toxicology. This year's recipient is **Franklin E. Mirer, PhD, CIH**. Join us as we honor Mirer's achievements.



Those of us who started in Occupational Health-Industrial Hygiene in the '70s encountered the TLV® list early on, or its mirror image in the OSHA PELs. The list conveyed the notion that practitioners could demand that management control exposure without having to document sick workers. The list also established priority chemical exposures. The dark side of establishing a bright line is a limit that permits exposures where workers will get sick, combined with a mindset that also permits pollution up to the limit. Despite near unanimous agreement that the PELs should be "updated," and that TLVs® could be a starting point, we are stuck in neutral. "Updating" includes incorporating new data, and new approaches to using data for risk assessment. Perhaps looking back can help frame the future. Two key events were the OSHA PEL Update (an attempt to adopt the 1985 TLVs® as PELs) and the unsuccessful suit filed against ACGIH by the International Brominated Solvents Association. The ride to the future should proceed on two tracks at ACGIH®. The TLV® process should continue down the existing track – grinding out new TLVs® for known and new chemicals, a flexible process that notes new data and incorporates that data into more protective TLVs®. A second track should address major dangers that are economically sensitive to a degree that governmental agencies are not taking them up. The second track should be the main track for NIOSH and OSHA.

## CR327

### DEVELOPING A PRODUCT-BASED ENVIRONMENTAL MANAGEMENT SYSTEM

12:30 P.M.-1:30 P.M.  
HBGCC 212 A-B

**Presenter:** K. Brewer, Hewlett-Packard Company, Corvallis, OR.

This presentation will provide an overview of Hewlett-Packard's product-based environmental management system, with a focus on aspects assessment. Using this system, HP has been successful in obtaining ISO 14001 certification for Global Product Design and Development of Personal Computing Products.

## P0138

### HEARING CONSERVATION II: CONTROLS & COMMUNITY NOISE

12:30 P.M.-3:00 P.M.  
HBGCC 214 B

**Arranger:** J. Kunz, 3M, St. Paul, MN. **Moderator:** J. Slagley, Indiana University of Pennsylvania, Indiana, PA. **Monitors:** F. Pagone, Park Ridge, IL; M. Hayden, San Antonio, TX.

12:30 P.M.-1:00 P.M.

**CS-138-01 Measuring, Analyzing, and Engineering Noise Controls For Indoor and Outdoor Shooting Ranges.** S. Katz, Troy Acoustics, Brunswick, GA.

1:00 P.M.-1:30 P.M.

**CS-138-03 Ear Training: Understanding Noise and Noise Controls Through Audio Demonstrations.** E. Miller-Klein, SSA Acoustics, LLP, Seattle, WA.

1:30 P.M.-2:00 P.M.

**CS-138-04 Active Noise Control in Industrial Settings - Establishing Performance Based on an Intelligent Analysis of Disturbance and Technology.** D. Maguire, TechnoFirst USA, Auburn, IN; C. Carme, TechnoFirst SA, Aubagne, France.

Support AIHF by purchasing the AIHce 2014 pin at the AIHA booth.

BOOTH 3025



## 2:00 P.M.-2:30 P.M.

**SR-138-05 Comparison of Noise Monitors in Low Noise Environments.** *S. Viet, M. Heikkinen, Westat, Rockville, MD; R. Neitzel, University of Michigan, Ann Arbor, MI; M. Dellarco, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD.*

## 2:30 P.M.-3:00 P.M.

**CR-138-06 Pre-Construction Ground-Borne Vibration and Ambient Noise Assessment for a Streetcar Project.** *J. Kominsky, Environmental Quality Management, Inc., Cincinnati, OH.*

## P0139

### RISK REDUCTION: FOCUSING RESOURCES TO MAXIMIZE BENEFITS

## 12:30 P.M.-4:00 P.M.

### HBGCC 217 B-C

**Arranger:** *M. Canright, Forensic Analytical Consulting Services, East Rancho Dominguez, CA.* **Moderator:** *M. Sullivan, California State University at Northridge, Newbury Park, CA.* **Monitors:** *B. Beadie, Maul, Foster & Alongi, Inc., Portland, OR; K. Yost, Commscope, Claremont, NC.*

## 12:30 P.M.-1:00 P.M.

**CS-139-01 Health Basis of Design: Concept and Application.** *R. Hunicke, Z. Naufal, H. Erickson, D. Steele, R. Nocco, A. Stock, K. Kraft, K. Satin, Chevron, Houston, TX.*

## 1:00 P.M.-1:30 P.M.

**CS-139-02 The Role of Programs in Achieving Process Safety Excellence.** *W. Kessler, Chilworth Technology, Inc., a DEKRA company, Princeton, NJ.*

## 1:30 P.M.-2:00 P.M.

**SR-139-03 Using Failure Modes to Enhance What-If Analysis.** *R. Collins, Southwest Research Institute, San Antonio, TX.*

## 2:00 P.M.-2:30 P.M.

**CS-139-04 Case Study: A Risk-Based Approach for Combustible Dust Hazard Mitigation.**

*T. Cullina, A. Dastidar, A. Theis, Fauske and Associates, Burr Ridge, IL.*

## 2:30 P.M.-3:00 P.M.

**SR-139-05 Assessing Risks to Pipefitters from Insulation and Gaskets.** *F. Boelter, J. Persky ENVIRON International, Chicago, IL.*

## 3:00 P.M.-3:30 P.M.

**CS-139-06 Exposure to Carcinogenic Erionite Fibers: Risk Assessment in Yucca Mountain, NV.** *J. Paz, F. Baumann, Las Vegas, NV.*

## 3:30 P.M.-4:00 P.M.

**CS-139-07 The Future of Occupational Risk Management.** *P. Esposito, STAR Consultants, Arnold, MD.*

## RT243

### ASBESTOS AND SOCIETY: PERCEPTION OF AN ACCEPTABLE RISK LEVEL

## 12:30 P.M.-4:30 P.M.

### HBGCC 206

**Arranger:** *A. Korchevskiy, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.* **Moderator:** *J. Rasmuson, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.* **Monitors:** *P. Williams, E Risk Sciences, LLP, Boulder, CO; G. Dotson, Blue Ash, OH.*

This session will provide practicing occupational hygienists with an understanding of the role of the acceptable risk level in the development of risk assessment models and protocols. Asbestos OELs in different countries will be compared from the positions of public health protectiveness, society costs, and benefits. A time for audience questions and discussion will be provided.

- **Mathematical Modeling of Risk Acceptability Criteria: How Low is Negligible?** *A. Korchevskiy, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.*
- **Is There a Mesothelioma Background Level, and How is it Measured?** *B. Case, Montreal General Hospital, Montreal, QC.*
- **The Failure of Asbestos Regulation in UK in the 1970s and the Resulting Mesothelioma Epidemic.** *J. Peto, London School of Hygiene and Tropical Medicine, London, UK.*
- **The Effectiveness, Practicality, and Social Costs of Asbestos Standards.** *D. Berman, Aeolus, Albany, CO.*
- **Naturally Occurring Asbestos: An Emerging Health Risk Challenge to the Industrial Hygiene Professional.** *B. Erskine, Kleinfelder, Benicia, CA.*
- **California Community Exposure to Naturally Occurring Asbestos.** *B. Heckman, LaCroix Davis LLC, Carlisle, PA.*
- **What Are Acceptable Levels of Risk from Asbestos Exposure in the Home?** *S. Gaffney, Cardno ChemRisk, San Francisco, CA.*
- **Achieving a World Free of Asbestos Risk.** *F. Boelter, ENVIRON, Chicago, IL.*

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## Presentation:

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'VOC Investigations: What's in the Air?'

Thursday, June 5th from 8:30am to 9:00am



## RT244

### CRYSTALLINE SILICA EXPOSURES IN CONSTRUCTION

12:30 P.M.-4:30 P.M.  
HBGCC 214 D

**Arranger:** F. Anderson, San Antonio, TX. **Moderator:** F. Anderson, San Antonio, TX. **Monitors:** S. Fess, Xerox Corporation, Webster, NY; G. Houvener, USDA, Hickory Corners, MI.

This roundtable will discuss ramifications of the proposed rule, its PEL, and issues around the OEL and TLV exposure limits. The shared practical solutions, strategies, as well as recommended skills and competencies for a silica competent person will be beneficial to any company, particularly the small to medium-sized companies without safety and health staffing.

- **OSHA's Proposed Silica Rule: A Labor Perspective.** S. Schneider, Laborers' Health and Safety Fund of North America, Washington, DC.
- **Impacts of the Proposed Rule on Small and Non-Union Contractors.** L. Capicik, Brasfield & Gorrie, LLC, Kennesaw, GA.
- **Exposure to Crystalline Silica at Alberta Construction Work Sites.** D. Radnoff, Alberta Human Services, Edmonton, AB, Canada.
- **Quantifying and Controlling the Exposure of Heavy-Equipment Operators to Crystalline Silica Dust.** M. Pannell, OSHA, Springfield, VA.
- **Recommended Skills and Capabilities for Silica Competent Persons - An AIHA White Paper.** D. Garvey, 3M Company, St. Paul, MN.
- **Control Options for Reducing Crystalline Silica Exposures in Construction.** J. Platner, AFL-CIO, Silver Spring, MD.

- **Engineering Control of Respirable Crystalline Silica Exposure from Cutting Fiber-Cement Siding.** C. Qi, NIOSH, Cincinnati, OH.

## RT245

### BUSINESS BENEFITS OF SUSTAINABILITY AND PRODUCT STEWARDSHIP

1:00 P.M.-3:30 P.M.  
HBGCC 217 A

**Arranger:** L. Barnes, Bureau Veritas North America, Lakewood, CO. **Moderator:** J. Tremblay, 3M OHESD, St. Paul, MN. **Monitors:** R. Costello, W.L. Gore & Associates, Inc., Elkton, MD; K. Nobrega, ESIS HSE, Richmond Surrey, UK

This roundtable will share experiences with how sustainability and product stewardship have provided business benefits to their organizations. A variety of perspectives will be provided by reporters, implementers, product providers and those dealing with customers.

- **The Evolution of Business and Citizenship.** M. Whyte, 3M, Maplewood, MN.
- **Internal Aspects and Benefits of Life-cycle Management.** L. Eichinger, 3M Company, Maplewood, MN.
- **The Business Case for Sustainability and Product Stewardship: A Case Study.** D. Wilson, Saint-Gobain North America, Valley Forge, PA.
- **Business Benefits of Sustainability Reporting.** L. Barnes, Bureau Veritas North America, Lakewood, CO.
- **How Sustainability Adds Value.** M. Finnermore, Baxter Healthcare Corporation, Round Lake, IL.

## RT246

### CORPORATE SOCIAL ETHICS: A GLOBAL LOOK

1:00 P.M.-3:30 P.M.  
HBGCC 217 D

**Arranger:** J. Throckmorton, University of Utah, Salt Lake City, UT. **Moderator:** J. Throckmorton, University of Utah, Salt Lake City, UT. **Monitor:** J. Rice, Intermountain Healthcare, Salt Lake City, UT.

This roundtable frames a discussion about some of the ethical problems and issues encountered when an IH interfaces with the global marketplace. Successful approaches to addressing this issue will also be discussed, to present current challenges but also look toward ethical boundaries and solutions.

- **Corporate Global Ethics: A Driving Force in Industrial Hygiene.** J. Singh, International Safety Systems, Kamuela, HI.
- **Migrant Health & Welfare Program and its Impact on a Major Construction Project.** H. Arabzadeh, HRA Environmental Consultants, Inc.
- **A Commitment to Products that Help Protect or Enhance Human Health, Safety, and the Environment.** B. Dawson, DuPont, Wilmington, DE.
- **Corporate Social Ethics, A Global Look.** G. Brown, Maquiladora Health and Safety Support Network, Richmond, CA.
- **Applied Ethics in Industrial Hygiene and Safety.** M. Mehta, International Safety Systems, Inc., Washingtonville, NY.

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# Poster Sessions

## MONDAY, JUNE 2

### PS401

9:00 A.M.-5:00 P.M.

Author Attend Time: 10:00 a.m. - Noon

#### CONSTRUCTION

**SR-401-01** Airborne Asbestos Exposures Associated with the Installation and Removal of Roofing Products. *J. Lotter, B. Roberts, J. Pierce, Cardno ChemRisk, Chicago, IL.*

**CS-401-02** Effective Leadership and Risk Management on a Multilingual Worksite. *L. Southgate, WorleyParsons Canada, Markham, ON, Canada.*

**CS-401-03** High Risk Asbestos Abatement, the Value of an Industrial Hygienist in Building Renovation. *P. Campbell, AMEC Environment and Infrastructure, Winnipeg, MB, Canada.*

#### EXPOSURE ASSESSMENT STRATEGIES

**SR-401-04** Occupational Exposure to Trichloramine and Trihalomethanes in Indoor Swimming Pools. *J. Westerlund, I. Bryngelsson, H. Westberg, Occupational and Environmental Medicine, Örebro, Sweden.*

**CS-401-05** Preliminary Assessment of Manganese Exposures to Non-Welders in Welding Shops Relative to the new ACGIH TLV. *H. Frazer, ESIS, Inc. Health, Safety & Environmental Services, Philadelphia, PA.*

**CS-401-06** Hydrogen sulfide Emission from the Mine of Copper in Poland. *S. Czerczak, M. Kupczewska-Dobacka, NIOM, Lodz, Poland*

**CS-401-07** Exposure on Toluene Diisocyanate in Foaming Process in Poland. *S. Czerczak, M. Kupczewska-Dobacka NIOM, Lodz, Poland.*

**SR-401-08** Health Relevant Particle Size-Selective Sampling for Lead at Small Arms Firing Ranges. *S. Young, A. Weber, S. Hueth, J. Kirnon, United States Army Public Health Command Army Institute of Public Health, Aberdeen Proving Ground, MD.*

**CS-401-09** Comparison of Passive Verses Active air Sampling Methods for Dibasic Ester Mixtures. *A. Smith, ESIS Health Safety & Environmental, Birmingham, United Kingdom; J. Kenny, ESIS Health Safety & Environmental, Cromwell, CT.*

**CS-401-10** Design and Conduct of an Industrial Hygiene Field Site Monitoring Strategy for Contractor Installation of Sport Track Surfaces to Evaluate Potential Personal and Area Exposures to Identified Airborne Concentrations of Isocyanates and Solvents. *J. Koehn, L. McKelvey, W. Young, Jan Koehn, M.S., CIH, Inc., Houston, TX.*

**CS-401-11** Comparison of an In-house Qualitative Dermal Assessment Tool with Existing Tier 1 Dermal Models. *J. Walton, A. Thompson, R. Skoglund, S. Paradis, R. Roy, T. Blodgett, 3M, St. Paul, MN.*

**SR-401-12** A Survey of Occupational Hygiene Status for Female Migrant Workers in China. *M. Liangying, Z. Anshou, Y. Wenlan, Chinese Center for Disease Control and Prevention, Beijing, China.*

#### NOISE

**CS-401-13** Noise in Child Development Centers. *G. Berckman, M. Gonzalez US Army Public Health Command Region North, Fort George G. Meade, MD.*

**SR-401-14** The Necessity of Multiple Fit Test Measurements for Earplugs and the Noise Exposure Dose Found at Coal Miners' Ear with Earplugs. *M. Wu, Grand Valley State University, Grand Rapids, MI; S. Guffey, B. Takacs, West Virginia University, Morgantown, WV; K. Michael, Michael & Associates, Inc., State College, PA.*

**CS-401-16** Case Study at the Museum: An Unanticipated Setting for Noise Exposure Concerns. *B. Epstein, Epstein Environmental Resources, LLC, Portland, OR.*

**CS-401-17** Noise Exposures and Hearing Loss at an Aluminum Beverage Can Manufacturer. *S. Brueck, NIOSH, Cincinnati, OH; M. Rodriguez, Concurrent Technologies Corporation, Johnstown, PA.*

### PS402

9:00 A.M.-5:00 P.M.

Author Attend Time: 2:00 p.m. - 4:00 p.m.

#### AEROSOLS

**SR-402-01** Practical Matters of Using a Diffusion Charger for Workplace Nanoparticle Assessments. *D. Vosburgh, University of Wisconsin-Whitewater, Whitewater, WI; T. Peters, The University of Iowa, Iowa City, IA; B. Ku, NIOSH, Cincinnati, OH.*

**CS-402-02** Exposure Assessment for Caffeine. *M. Strange, ESIS Health, Safety & Environmental Services, Sonora, CA.*

**SR-402-03** Respirator Performance Against Engineered Nanoparticles Under Simulated Workplace Conditions. *E. Vo, Y. Liu, Z. Zhuang, NIOSH, National Personal Protective Technology Laboratory, Pittsburgh, PA; M. Horvatin, L. Portnoff, P. Jaques, URS Corporation, Pittsburgh, PA; URS Corporation, Pittsburgh, PA.*

**SR-402-04** A Novel Amorphous Silica Encapsulation (ASE) Technology for Reducing the Toxicity of Welding Fume Particles. *J. Wang, University of Oklahoma Health Sciences Center, Oklahoma City, OK; C. Wu, University of Florida, Gainesville, FL.*

#### INDOOR ENVIRONMENTAL QUALITY

**CS-402-05** Indoor Air Quality in Facilities of Floating Production, Storage and Offloading vessel. *C. Bizarri, A. Nascimento, E. Santos, G. Rocha, I. Araújo SESI, Rio de Janeiro, Brazil.*

**SR-402-06** An Evaluation of Airborne Particulate Matter, Ambient Temperature, and Relative Humidity at a Northwest Ohio High School. *S. Milz, A. Ames, S. Klender, A. Doerr, D. Bourland, G. Heldt, H. Moreer, J. Scardina, V. Sigler, M. Valigosky, University of Toledo, Toledo, OH.*

**SR-402-07** Diffusive Sampling for Airborne Phthalates by Solid-Phase Microextraction. *Y. Wang, C. Chang, C. Hsu, W. Chen, S. Tsai, Institute of Environmental Health, National Taiwan University, Taipei, Taiwan.*

**CS-402-08** Use of Helium Diffusion Samplers for Industrial Hygiene VOC Evaluations. *J. Kenny, G. Stratton, J. Lee, ESIS Health Safety and Environmental, Cromwell, CT.*

**SR-402-09** Study on Formaldehyde Evaporation in Large-Scale Exhibition Places. *C. Lai, W. Su, Department of Occupational Safety and Health, Chung-Shan Medical University, Taichung, Taiwan; Y. Chen, S. Yang, Institute of Environmental and Occupational Health, National Yang-Ming University, Taipei, Taiwan.*

**SR-402-10** Occupational Exposures to TVOCs in Nail Salons and Factors that Predict Exposure. *L. Goldin, M. Fragala, T. Myatt, J. Stewart, J. Allen, Brandeis University, Waltham, MA; T. Skogstrom, Boston Public Health Commission, Roxbury, MA.*

## NANOTECHNOLOGY

**CS-402-11 Comprehensive Risk Management in a Single Wall Carbon Nanotubes Primary Manufacturer.** *M. Debia, S. Kouassi, Université de Montréal, Montréal, QC, Canada; C. Ostiguy, Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST), Montréal, QC, Canada; A. Dufresne, Université de Montréal, Montréal, QC, Canada; C. Emond, BioSimulation Consulting Inc, Newark, DE.*

**CS-402-12 Nanoparticle Exposures in Two Primary Manufacturers of Québec (Canada).** *M. Debia, S. Kouassi, A. Dufresne, Université de Montréal, Montréal, QC, Canada; C. Ostiguy, B. Roberge, Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST), Montréal, QC, Canada.*

**SR-402-13 Exposure Characteristics of Indium-contained By-product Particles Generated from Indium Tin Oxide Process in LED Industry.** *K. Choi, H. An, K. Kim, Samsung Electronics, Yongin, Republic of Korea; D. Kim, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea.*

## PROTECTIVE CLOTHING AND EQUIPMENT

**SR-402-14 Performance Evaluation of Personal Protective Clothing Using in River Fugitive Dust Storm.** *C. Lai, C. Chen, Y. Chiang, Department of Occupational Safety and Health, Chung-Shan Medical University, Taichung, Taiwan.*

**SR-402-15 Respirable Silica Dust Suppression During Artificial Stone Countertop Cutting.** *J. Cooper, D. Johnson, M. Philips, University of Oklahoma Health Sciences Center, Oklahoma City, OK.*

**SR-402-16 Comfort Evaluation of Disposable Respirator with Newly Developed Valves.** *C. Lai, L. Chen, Y. Liao, Department of Occupational Safety and Health, Chung-Shan Medical University, Taichung, Taiwan; C. Chen, C. Chen, Institute of Occupational Safety & Health, Council of Labor Affairs, Taipei, Taiwan; C. Chen, Institute of Occupational Safety & Health, Council of Labor Affairs, Taipei, Taiwan.*

## TUESDAY, JUNE 3

## PS403

9:00 A.M.-3:00 P.M.

Author Attend Time: 10:00 a.m. – Noon

## COMMUNICATION AND TRAINING

**SR-403-01 Assessment of Occupational Health and Safety Hazard Exposures Among Working College Students.** *J. Balanay, A. Adesina, G. Kearney, S. Richards, East Carolina University, Greenville, NC.*

**CS-403-02 Training for Doctors in Diagnosis of Occupational Disease.** *Z. Anshou, A. Ming, Chinese Center for Disease Control and Prevention, Beijing, China.*

## EMERGING ISSUES

**SR-403-03 Diacetyl and 2,3-Pentanedione Exposures Associated with Cigarette Smoking: Implications for Risk Assessment of Food and Flavoring Workers.** *J. Pierce, A. Abelman, L. Spicer, R. Adams, Cardno ChemRisk, Chicago, IL; B. Finley, Cardno ChemRisk, San Francisco, CA.*

## HAZARDOUS CHEMICALS

**SR-403-05 Study on Application Plan of Toxicity Prediction Program for Chemicals Used in Electronics Industry.** *J. Kim, K. Choi, K. Kim, Samsung Electronics, Yongin, Republic of Korea, D. Kim, Sungkyunkwan University College of Medicine, Jongno, Republic of Korea.*

**CS-403-06 Health Hazard Banding for the Evaluation of 3 selected Chemicals.** *M. Seaton, L. McKernan, NIOSH, Cincinnati, OH.*

**SR-403-07 Antibiotics in Healthcare Environments: Chemical Analysis.** *R. Saito, C. Cherry, B. Sartor, The University of Texas Health Science Center at Tyler, Tyler, TX.*

**SR-403-08 Barriers to Effective Implementation of Programs for Workplace violence prevention in hospitals.** *J. Blando, Old Dominion University, Norfolk, VA; M. Ridenour, D. Hartley, (NIOSH), Morgantown, WV; C. Casteel, Injury Prevention Research Center, University of North Carolina, Chapel Hill, NC.*

## INDUSTRIAL HYGIENE GENERAL PRACTICE

**CS-403-09 A Risk Management Approach to Chemical Substitution.** *M. Holton, R. Adams, J. Ellis, E. Anderson, ENVIRON International Corp, Princeton, NJ.*

**SR-403-10 Validation of a Diffusive Sampler for Monitoring Nitrogen Dioxide in Workplace, Indoor, and Ambient Air.** *N. Zovack, L. Coyne, C. Kuhlman, SKC Inc., Eighty Four, PA.*

## OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY

**SR-403-11 Rating Paternal Occupational Exposure for a Case-Control Study of the Risk of Childhood Sporadic Bilateral Retinoblastoma.** *J. Allen, R. Herrick, Harvard School of Public Health, Boston, MA; M. McClean, Boston University School of Public Health, Boston, MA; A. Abdolahi, E. van Wijngaarden, University of Rochester School of Medicine and Dentistry, Rochester, NY; A. Ganguly, University of Pennsylvania, Philadelphia, PA; G. Bunin, Children's Hospital of Philadelphia, Philadelphia, PA.*

## RISK ASSESSMENT AND MANAGEMENT

**CS-403-12 Smoking and TLVS®.** *J. Elias, Elias Occupational Hygiene Consulting Inc., Winnipeg, MB, Canada; A. Reineke, University of Manitoba, Winnipeg, MB, Canada.*

**SR-403-13 Integration of Qualitative Risk Assessment Database and Quantitative Exposure Rating Using Exposure-Hazard Matrix and Bayesian Model in a Large Electronics Company.** *D. Lim, H. You, Y. Lee, LG Display, Gyeonggi-do, Republic of Korea; C. Yoon, Seoul National University, Seoul, Republic of Korea; D. Park, Korea National Open University, Seoul, Republic of Korea; J. Jeong, Yongin University, Gyeonggi-do, Republic of Korea; S. Ham, Seoul National University, Seoul, Republic of Korea; S. Lee, Gumi Cha Medical Center, Gyeongsangbuk-do, Republic of Korea; K. Ha, Changwon National University, Gyeongsangnam-do, Republic of Korea.*

**CS-403-14 CNC Machine Coolant and Allergic Contact Dermatitis: a Surprising Causative Agent.** *D. Duffy, ESIS, Inc. Health, Safety & Environmental Services, Chicago, IL.*

**SR-403-15 Historical Occupational Isocyanate Exposure Levels in Ontario, Canada.** *C. Hon, M. Nguyen, Ryerson University, Toronto, ON, Canada; P. Demers, Occupational Cancer Research Centre, Toronto, ON, Canada.*

**CS-403-16 The Hierarchy of Occupational Exposure Limits (OELs) - New Opportunities in Concept Application.** *A. Maier, University of Cincinnati, Cincinnati, OH; D. Heidel, Bureau Veritas North America, Inc., Edison, NJ; R. Roy, 3M, Saint Paul, MN; M. Jaycock, The LifeLine Group, Langhorne, PA; S. Ripple, The Dow Chemical Company, Midland, MI.*

**SR-403-17 Occupational Disease Hazards Assessment in an Electronics Enterprise by a Semi-Quantitative Risk Assessment.** *H. Weijiang, Chinese Center for Disease Control and Prevention, Beijing, China.*

**SR-403-18 Pre-Assessment on Occupational Diseases Hazards for One Alumina Constructive Project.** *C. Yongqing, Chinese Center for Disease Control and Prevention, Beijing, China.*

## TOXICOLOGY

**CS-403-19 Workplace Environmental Exposure Level (WEEL) Development for Chemicals: The OARS WEEL Model.** *S. Barnett A. Havics, Bucherl, pH2, LLC, Avon, IN.*



# Poster Sessions

## PS404

9:00 A.M.-3:00 P.M.

Author Attend Time: 1:00 p.m. - 3:00 p.m.

### BIOSAFETY AND ENVIRONMENTAL MICROBIOLOGY

**SR-404-01** Evaluation of Bioaerosol and Antibiotic Resistance Characteristics in Hospital Long-Term Care District. *C. Lai, H. Hsu, Y. Lin, A. Kuo, W. Ling, Chung Shan Medical University, Taichung, Taiwan; C. Lin, Intensive Care Unit of Puli Branch of Taichung Veteran General Hospital, Nanto County, Taiwan.*

**SR-404-02** Evaluation of Bioaerosol and Antibiotic Resistance -A Comparison Sampling in Hospital Areas. *C. Lai, Y. Lin, N. Wu, A. Kuo, Chung Shan Medical University, Taichung, Taiwan; Y. Lin, Chung Shan Medical University Hospital, Taichung, Taiwan.*

### CONSULTING

**SR-404-03** Experimental Comparison of Dust Concentrations from Simulations in Glove Box and Room Chamber Test Environments. *A. Singhal, P. Sheehna, P. Turnham, K. Bogen, E. Anderson, Exponent, Inc, Menlo Park, CA.*

### ENGINEERING

**CS-404-04** Engineering Control Recommendations for Nanomaterials. *J. McKernan, U.S. EPA, Cincinnati, OH; K. Dunn, C. Geraci, CDC/NIOSH, Cincinnati, OH.*

## ENVIRONMENTAL ISSUES

**SR-404-05** Indoor Isocyanate Surface Contamination as a Potential Source of Skin Exposure for Children. *Y. Liu, D. Sterling, University of North Texas Health Science Center, Fort Worth, TX; J. Li, Shandong University School of Public Health, Jinan, China.*

## ERGONOMICS

**CS-404-06** PCM Equipment Modifications to Correct for an MSD from Fiber Counting. *P. Stanch, NASA, Johnson Space Center, Houston, TX.*

## SAMPLING AND LABORATORY ANALYSIS

**CS-404-07** Sea Lamprey Pesticide Contamination at a Biological Station. *D. Ceballos, NIOSH, Cincinnati, OH.*

**SR-404-08** Low Wind Velocity Environment Sampling with Passive Sampler Equipped Small FAN Motor. *Y. Suzuki, T. Enomoto, Sibata Scientific Tech. Ltd., Soka, Japan; K. Watanabe, M. Murata, T. Nagoya, Waseda University, Shinjyuku, Japan; K. Yanagisawa, Tokyo University (Emeritus Professor), Bunkyo-ku, Japan.*

**SR-404-09** Determination of Indoor Airborne Synthetic Musks by Dynamic Air Sampling with Solid-Phase Microextraction. *C. Hsu, S. Tsai, Department of Public Health & Institute of Environmental Health, College of Public Health, National Taiwan University, Taipei, Taiwan, Taipei, Taiwan.*

**SR-404-10** NIOSH 6013 Hydrogen Sulfide Analysis Using Anasorb 747 for Collection. *M. Jager, C. McSweeney, D. Popp, L. Dobson, University of Wisconsin, State Laboratory of Hygiene, Wisconsin Occupational Health Laboratory, Madison, WI.*

**SR-404-11** Desorption and Re-adsorption of Styrene on Charcoal Media. *M. Jager, S. Strebel, D. Popp, C. Powell, University of Wisconsin, State Laboratory of Hygiene, Wisconsin Occupational Health Laboratory, Madison, WI.*

**SR-404-12** Stability of Immunoassay Analytes and Test Kits Used for Monitoring Environmental Allergen Exposure. *B. Smith, D. Block, S. Filep, M. Chapman, E. King, Indoor Biotechnologies, Charlottesville, VA.*

**SR-404-13** Comparison of Metal Concentrations from the Closed-Cage 37 mm Cassette and Customized Sampler with Cellulose-Acetate Cassette Insert. *E. Lee, W. Chisholm, D. Burns, J. Nelson, M. Harper, NIOSH, Morgantown, WV.*

**SR-404-14** Long Term Stability of Volatile Organic Compounds (VOC) On Charcoal Tubes and Passive Monitors. *M. Derrzi, A. Gray, J. Cooper, Bureau Veritas, Novi, MI.*

**SR-404-15** Validation of a Diffusive Sampler for Monitoring Ammonia in Workplace Air. *C. Kuhlman, L. Coyne, N. Zovack, SKC, Inc, Eighty Four, PA.*

## STUDENTS AND EARLY CAREER PROFESSIONALS

**CS-404-16** Engaged Learning: Understanding the Practice of Industrial Hygiene by Practicing Industrial Hygiene. *T. Hogan, Northern Illinois University, DeKalb, IL.*

## WEDNESDAY, JUNE 4

## PS405

9:00 A.M.-1:00 P.M.

Author Attend Time: 10:00 a.m. - Noon

Student awards presented at 12:30 p.m.

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# EXPO HIGHLIGHTS

**Henry B. Gonzalez Convention Center,  
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## EXPO HOURS

**MONDAY, JUNE 2, 9:00AM – 5:30PM**

**TUESDAY, JUNE 3, 9:00AM – 3:00PM**

**WEDNESDAY, JUNE 4, 9:00AM – 1:30PM**

### Expo Opening Cocktail Reception

**on Monday from 4:00 p.m. – 5:30 p.m.**

Bring your complimentary drink ticket from your registration packet.

### Tuesday Coffee & Danish in the Expo

Meet with exhibitors while enjoying coffee and a snack.

### Passport to Prizes, sponsored by Industrial Scientific Corp.

#### Prize Booth # 1042

Have your passport stamped by participating exhibitors, and drop your entry at the Prize Booth #1042 by noon, Wednesday. Winning names will be drawn at 12:30 p.m. on Wednesday. The Grand Prize is a trip to AIHce 2015 in Salt Lake City, Utah. 2nd Prize is \$1,000.

### Monday and Tuesday Prize Drawing Tickets

**Monday Prize Booth # 2078**

**Tuesday Prize Booth# 4096**

Full registrants receive 2 tickets to enter to win one of 4 iPads (2 iPads will be given away on Monday, and 2 iPads will be given away on Tuesday.

Drawings will be done after the show closes on Tuesday, June 3, and winners will be notified by email and told where they can pick up their prizes.

### Special Exhibit in the Expo

#### CLANDESTINE DRUG LAB EXHIBIT

#### PROVIDED BY AIHA'S CLAN LAB WORKING GROUP

Clandestine Laboratory Working Group will display a mock clandestine drug lab that focuses on hazards associated with the production of methamphetamine and indoor marijuana grow operations.

## MONDAY, JUNE 2

**10:00 a.m. – Pavilion 2**

Moisture and Hydrogen Sulfide Analysis in Crude Oil, **Arizona Instrument LLC**

**10:00 a.m. – Pavilion 1**

How DualSense® Technology Makes Single Gas Detection Users Safer, **Industrial Scientific Corporation**

**10:30 a.m. – Pavilion 1**

Migration to Mobile Workflows, **Dakota Software Corporation**

**10:30 a.m. – Pavilion 1**

Using Chemical Challenge Breakthrough Data and Models to Establish and Support Respirator Change Schedules, **Assay Technology**

**12:00 p.m. – Pavilion 2**

Scoop MAE: A Mobile Cloud-Based Platform for Engaging Your Entire Team in Resolving Safety Issues, **Scoop MAE Platform**

**12:00 p.m. – Pavilion 1**

Galson Laboratories' Hydrofracking Kit, **Galson Laboratories**

**12:30 p.m. – Pavilion 2**

Real Time Dust Monitoring: The Effects of Humidity on the Accuracy of Measuring Aerosol Concentrations, **TSI Inc.**

**12:30 p.m. – Pavilion 1**

3M™ Versaflo™ TR-600 Respiratory System, **3M Company**

**12:30 p.m. – Pavilion 2**

Reduce Exposure, Save Lives & Time with Wireless Gas Detection, **IE Monitoring Instruments**

**1:00 p.m. – Pavilion 2**

Bullard Sparxlift Welding Helmet for Powered Air Purifying Respirator, **Bullard**

**1:00 p.m. – Pavilion 1**

3M™ E-A-Rfit™ Validation System, **3M Company**

**1:30 p.m. – Pavilion 2**

Medgate GX2 - Advanced Industrial Hygiene Software, **Medgate, Inc.**

**1:30 p.m. – Pavilion 1**

OH Learning, **Euro Safety & Health**

## TUESDAY, JUNE 3

**9:30 a.m. – Pavilion 1**

MSA ALTAIR® 2XP Gas Detector: Ready, Set, Bumped!, **MSA - The Safety Company**

**9:30 a.m. – Pavilion 2**

Improved, Universal Passive Monitor for VOC Sampling in the Workplace, **Entech Instruments, Inc.**

**10:00 a.m. – Pavilion 1**

Establishing Standard Operating Procedures (SOP) and Good Lab Practices (GLP) in Powder Handling Environments, **Flow Sciences, Inc.**

**10:00 a.m. – Pavilion 2**

enviroflo, Inc. / Safescience Technologies Tox-Safe "Change-Safe" HEPA Filtration Removal for Potent Power Applications, **enviroflo, Inc.**

**10:30 a.m. – Pavilion 2**

Bactiquant Water - a Rapid Onsite Screening Tool for Assessing Legionella Risk, **Mycometer**

**10:30 a.m. – Pavilion 1**

ILC Dover SCape® APER Escape Respirators - Alternatives to EEBA systems, **ILC Dover**

**11:00 a.m. – Pavilion 1**

Safe Choice Education: Practicing Proactive Silica Dust Housekeeping, **Niifisk Industrial Vacuums**

**11:00 a.m. – Pavilion 2**

Utilizing Photoionization Detection (PID) Sensors for Indoor Air Quality (IAQ) investigations, **GrayWolf Sensing Solutions**

**12:30 p.m. – Pavilion 2**

Gasmet Model DX-4040 Portable FTIR Gas Analyzer Identifies "Unknown" Toxic Gases in Emergency Response, Hazmat and Workplace IH Monitoring Applications, **Gasmet Technologies Inc.**

**1:00 p.m. – Pavilion 1**

Validation Testing Results on Labconco Protector Stainless Steel ULPA Filtered Glove Box, **Labconco Corporation**

**1:00 p.m. – Pavilion 2**

Thermo Scientific TVA2020 Analyzer - A Portable Dual Detector (FID & PID Instrument) Instrument, **Thermo Fisher Scientific**

## WEDNESDAY, JUNE 4

**11:30 a.m. – Pavilion 2**

WorkLink 2.0, **WorkCare, Inc.**

**12:30 p.m. – Pavilion 1**

Real Time Dust Monitoring: The Effects of Humidity on the Accuracy of Measuring Aerosol Concentrations, **TSI Inc.**

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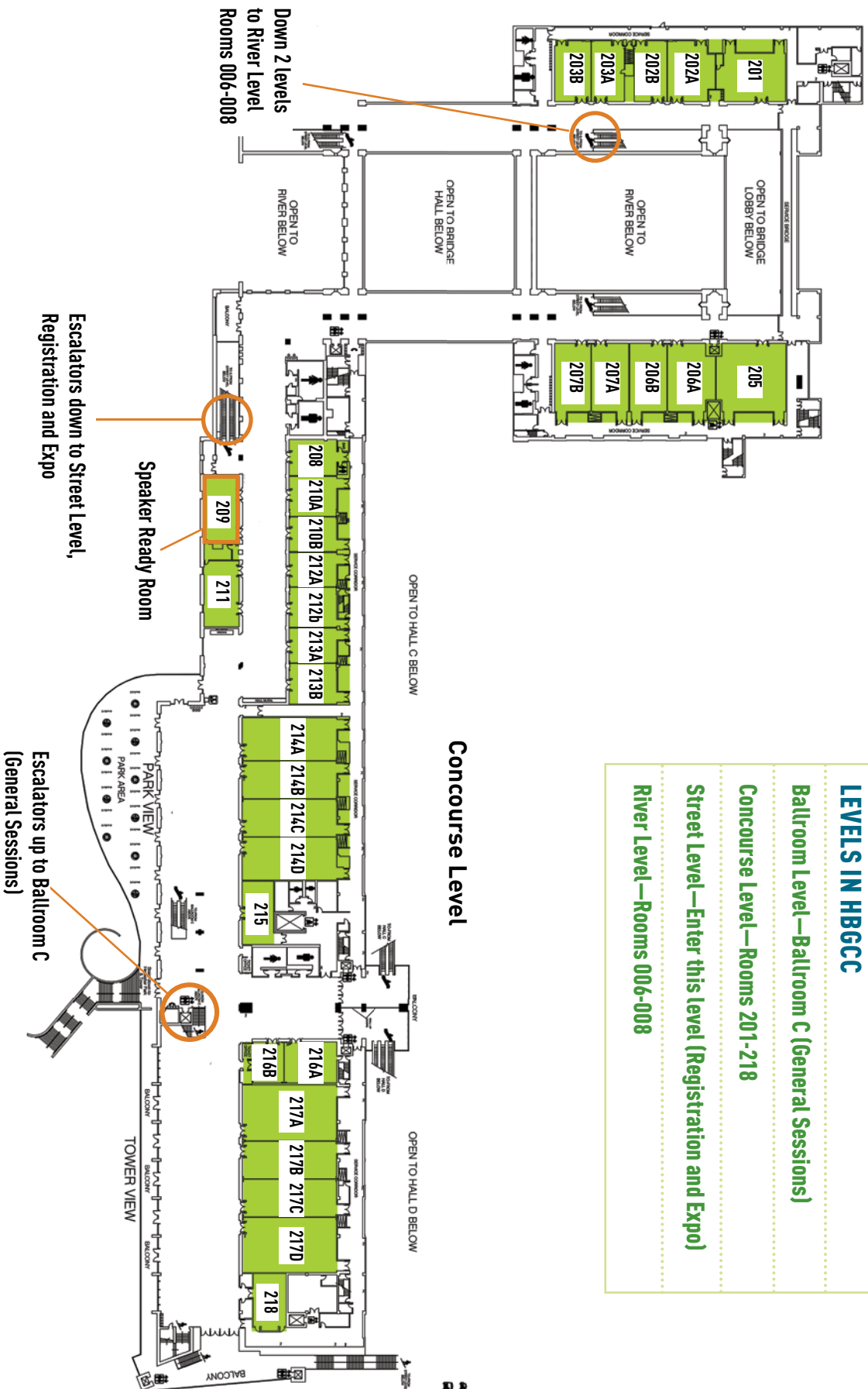
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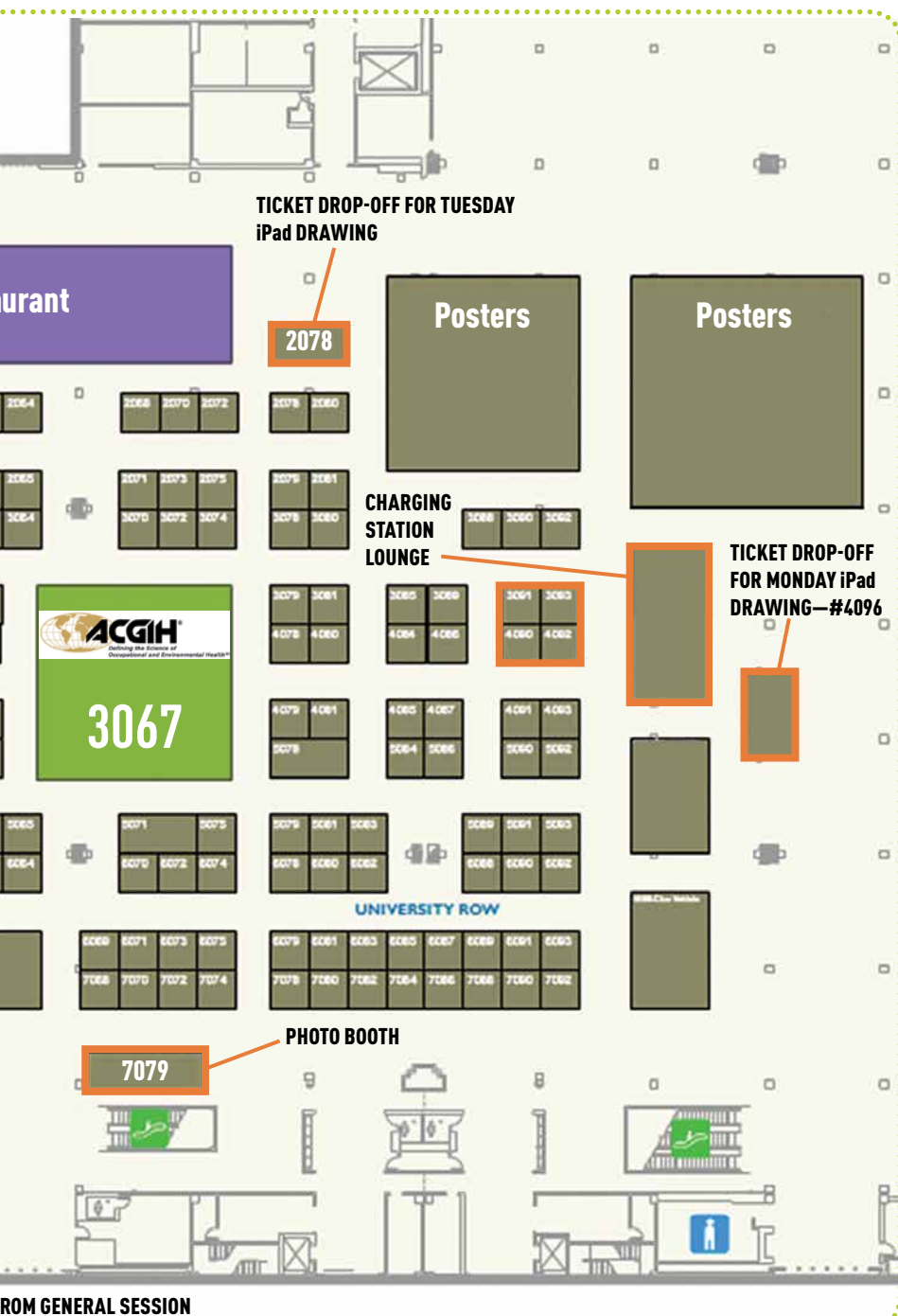
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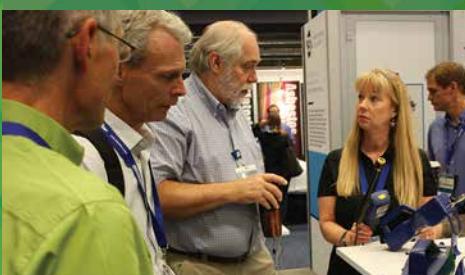


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**TUESDAY, JUNE 3**  
9:00 AM – 3:00 PM

**WEDNESDAY, JUNE 4**  
9:00 AM – 1:30 PM





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Assured Bio Labs is an environmental microbiology laboratory located in the heart of the Knoxville-Oak Ridge Innovation Valley. With two distinctive arms: 1) commercial services and 2) research and development, the scientist employed have the drive, the technology, and the skill set in order to address unique indoor air quality needs.

**Atlas Ergonomics.....7043**

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info@atlasergo.com  
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We serve over 10,000 US cities, providing physical demands analysis; pre-employment screens; ergonomics software, services, and training; on-site injury triage/physical therapy; and wellness services for manufacturing, transportation, warehouses, offices, and healthcare. We provide a simple total solution especially for large multi-site clients.

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B3 plastics is at the forefront of ergonomic innovation. Developing products which reduce risk to users and create safer working environments.

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Baseline® offers gas analysis solutions for toxic gases in the workplace, indoor air quality monitoring and site remediation. Product line includes photoionization sensors, handheld VOC detectors, gas chromatographs and hydrocarbon analyzers. Analyze total VOC's, ethylene oxide, acrylonitrile, naphthalene, diacetyl, formaldehyde and many more.

# Exhibitors by Alphabet

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BEAC grants the Certified Professional Environmental Auditor (CPEA) designation to qualified professional auditors under four specialty areas: Environmental Compliance, Health & Safety Compliance, Management Systems, and Responsible Care®. Those holding the CIH or CSP designation are exempt from Part 2 of BEAC's H&S Compliance exam.

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## Board of Certified Safety Professionals (BCSP) .....3034

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217-359-9263  
bcsp@bcsp.org  
www.bcsp.org

The Board of Certified Safety Professionals (BCSP) establishes standards, verifies competency, and administers recertification requirements for the professional and para-professional credentials; CSP, OHST, CHST, STS, and CET.

## Bowen EHS, LLC .....5071

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Chapel Hill, NC 27514  
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Bureau Veritas is a global provider of Health, Safety & Environmental (HSE) consulting and laboratory services, with unparalleled resources and expertise, and a commitment to customer satisfaction.

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BW Technologies by Honeywell is a leading manufacturer of a full line of gas detection instrumentation for protection from a full range of toxic gases, combustibles and oxygen hazards.

## NEW! Calgaz.....5084

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Hamilton, ON L8N 1M5  
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clientservices@ccohs.ca  
www.ccohs.ca

CCOHS is Canada's national resource for the advancement of workplace health and safety. CCOHS promotes total well-being - physical, psychosocial and mental health - of working Canadians by providing information, training, education, management systems and solutions that support health and safety programs and the prevention of injury and illness.

## CDC/NIOSH.....5078

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513-533-8380  
www.cdc.gov/niosh

NIOSH produces new scientific knowledge and provides practical solutions vital to reducing risks of injury and death in traditional industries, such as agriculture, construction, and mining.

## Center for Safety and Health Sustainability (CSHS).....2080

1800 E. Oakton Street  
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847-768-3402  
dhudson@centershs.org  
www.centershs.org

Committed to ensuring the safety, health, & sustainability of the global workforce, CSHS engages safety & health partners around the world to establish minimum standards that help reduce workplace injuries and ill health. A collaborative effort of AIHA, ASSE and IOSH, CSHS represents over 85,000 workplace safety & health professionals worldwide.

## Center for Toxicology and Environmental Health, LLC .....4060

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501-801-8500  
dchristensen@cteh.com  
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Scientific consulting company providing data-based solutions for your IH and H&S needs. Our experienced IH & toxicology teams partner with you on solving challenges around worker exposure & improving worker health; in stable and emergency response situations. Visit Booth 4060 to learn more about CTEH and additional services we offer.

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CleanAir Instrument Rental provides a full complement of rental instrumentation and support equipment for the industrial hygiene professional.

**Colden Corporation.....3054**

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bchandler@craworld.com  
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www.acegroup.com/esis-en/services-solutions/esis-health-safety-environmental-services.aspx  
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248-241-6713  
drfike@fikeanalytical.com  
www.fikeanalytical.com

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**First Line Technology, LLC .....4061**

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sales@firstlinetech.com  
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First Line Technology is an ISO 9001:2008-certified manufacturer and supplier of Out of the Box Solutions for first responders and the military that has established itself as a leader in product development and deployment with innovative, simple solutions like heat-activated PhaseCore® Cooling Vests and the AmbuBus®, Bus-Stretcher Conversion Kit®.

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**Forensic Analytical Laboratories, Inc. ....2064**

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Forensic Analytical Laboratories is dedicated to providing high quality analytical services. When you use Forensic Analytical Laboratories, you're working with a dedicated and established team of highly trained professionals. The management team alone has more than 200 years of combined experience in the analytical laboratory field.

**Galson Laboratories .....4013**

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East Syracuse, NY 13057  
888-432-5227  
clientservices@galsonlabs.com  
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Galson Laboratories, a world leader in industrial hygiene analysis and monitoring solutions specializes in working with occupational health, safety and environmental professionals in selecting the most effective means to obtain data to protect people from hazardous exposures. This is our passion and our only business!

**Gas Clip Technologies, Inc. ....7037**

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972-775-7577  
info@gascliptech.com  
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Gas Clip Technologies designs and manufactures reliable portable multi-gas detectors with two months run time and single gas detectors that can be hibernated when necessary.

**Gasmet Technologies Inc. ....5057**

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sales@gasmet.com  
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Gasmet's DX4040 portable FTIR gas analyzer can identify "unknown" toxic gases within minutes of arriving at site by searching the NIST reference library of > 5,000 gases. Measuring 25 gases simultaneously at sub-ppm levels, the DX4040 is a cost-effective solution for workplace exposure assessments in chemical plants, hospitals, universities.

**GASTEC Corporation .....4039**

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GASTEC Corporation designs and manufactures a complete line of detector tube systems and other instrumentation for health and safety.

**GfG Instrumentation, Inc. ....5037**

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GfG Instrumentation develops and manufactures portable gas detectors, fixed systems and respiratory airline monitors to protect from combustible gases, toxic gases, and oxygen hazards.

**GHS Safety .....2044**

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GHS Wall Charts, SDS Centers, GHS Compliance Products.

**Golder Associates Inc. ....3042**

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303-980-0540  
solutions@golder.com  
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## NEW! The Auditing Roundtable, Inc.....2027

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kathy@auditing-roundtable.org  
www.auditing-roundtable.org

The AR is a professional organization founded in 1982 by ten corporate environmental audit program managers, and has since expanded its scope to include health & safety. Its primary mission is to enhance the practice of EHS auditing by creating a forum to advance ideas, procedures and member interaction, both in the US and internationally.

## The Wercs, Ltd., A UL Company.....2006

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## TSI, Inc. ....4007

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## Univ. of Illinois/Great Lakes Centers for Occupational & Environmental Safety & Health .....6081

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312-996-6904  
syn@uic.edu  
http://www.uic.edu/sph/glakes  
The Great Lakes Center for Occupational and Environmental Safety and Health exists to improve, promote and maintain the health of workers and communities.

## University of Alabama at Birmingham - Deep South ERC.....6089

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205-934-7178  
dsc@uab.edu  
www.uab.edu/dsc

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## University of California, School of Public Health, Berkeley, CA.....6093

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nstone@berkeley.edu  
http://sph.berkeley.edu

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## University of Cincinnati Environmental and Occupational Hygiene.....6092

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www.cohse.umich.edu/

The University of Michigan Center for Occupational Health and Safety Engineering (COHSE) is a NIOSH Education and Research Center (ERC). The mission of our Center is to serve the region, nation, and world as a center of excellence for research and graduate education in Occupational Health & Safety.

### University of South Florida Sunshine ERC.....6078

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<http://health.usf.edu/publichealth/eoh/index.htm>

The University of South Florida is a Research 1 University. The Sunshine ERC is funded by NIOSH.

### University of Toledo, Dept of Public Health & Preventive Medicine..6083

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419-383-3976  
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[www.utoledo.edu/med/pubhealth](http://www.utoledo.edu/med/pubhealth)

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# Don't Forget to Complete Your Evaluation!



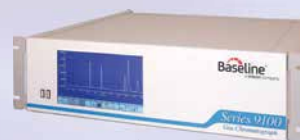
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## AIHA

### A

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#### ACADEMIC SIG

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#### AEROSOL TECHNOLOGY COMMITTEE

Wednesday, June 4, 2:00 p.m.-4:00 p.m., Hyatt, Bonham B, Level 3

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Thursday, June 5, 8:30 a.m.-10:30 a.m., Hyatt, Travis A, Level 3

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#### CONSTRUCTION COMMITTEE

Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Bonham D, Level 3

#### CONSULTANTS SIG

Wednesday, June 4, 2:00 p.m.-4:00 p.m., Hyatt, Mission B, Level 2

#### CONTENT PORTFOLIO MANAGEMENT TEAM MEETING

Tuesday, June 3, 9:30 a.m.-10:30 a.m., Hyatt, Bonham C, Level 3

#### CONTENT STRATEGY INPUT

Monday, June 2, 2:00 p.m.-3:00 p.m., HBGCC, 008

#### CONTINUING EDUCATION COMMITTEE

Monday, June 2, 2:00 p.m.-4:00 p.m., HBGCC, 218

#### CONTROL BANDING WORKING GROUP

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Bonham E, Level 3

### E

#### EASC DERMAL PROJECT TEAM

Tuesday, June 3, 2:00 p.m.-3:00 p.m., Hyatt, Presidio A, Level 3

#### EASC MATH MODELING

Tuesday, June 3, 3:30 p.m.-4:30 p.m., Hyatt, Presidio A, Level 3

#### ENGINEERING INDUSTRY SIG

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Mission B, Level 2

#### ENVIRONMENTAL ISSUES COMMITTEE

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Bowie B, Level 2

#### ENVIRONMENTAL ISSUES SIG

Monday, June 2, 11:30 a.m.-12:30 p.m., Hyatt, Crockett D, Level 4

#### ERGONOMICS COMMITTEE

Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Presidio A, Level 3

#### EXPOSURE ASSESSMENT STRATEGIES COMMITTEE

Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Bowie A/B, Level 2

### F

#### FALL CONFERENCE PLANNING COMMITTEE

Monday, June 2, 12:30 p.m.-1:30 p.m., Hyatt, San Jacinto, Level 2

#### FELLOWS SIG MEETING

Wednesday, June 4, 4:00 p.m.-6:00 p.m., Hyatt, Lone Star A, Level 2

#### FELLOWS SIG OFFICERS MEETING

Tuesday, June 3, 1:30 p.m.-3:30 p.m., Hyatt, Crockett D, Level 4

#### FINANCE COMMITTEE

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Travis A, Level 3

### G

#### GOVERNMENT AFFAIRS UPDATE

Monday, June 2, 2:00 p.m.-2:30 p.m., Hyatt, Crockett D, Level 4

#### GREEN BUILDING WORKING GROUP

Tuesday, June 3, 3:30 p.m.-5:30 p.m., Hyatt, Travis B, Level 3

#### GREEN COUNCIL

Wednesday, June 4, 10:30 a.m.-11:30 a.m., Hyatt, Travis B, Level 3

#### GUIDELINE FOUNDATION BOARD

Monday, June 2, 11:00 a.m.-1:00 p.m., Hyatt, Goliad, Level 2

### H

#### HAZARD PREVENTION & ENGINEERING CONTROLS COMMITTEE

Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Crockett D, Level 4

#### HEALTHCARE WORKING GROUP

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Lone Star B, Level 2



**I****IEQ: E-CIG PROJECT TEAM**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Bonham C, Level 3

**INCIDENT PREPAREDNESS AND RESPONSE WORKING GROUP**

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Crockett B, Level 4

**INDIGO COUNCIL**

Tuesday, June 3, 2:00 p.m.-3:00 p.m., Hyatt, Travis B, Level 3

**INDOOR ENVIRONMENTAL QUALITY COMMITTEE**

Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Bowie B, Level 2

**INDOOR ENVIRONMENTAL QUALITY SIG**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Seguin B, Level 4

**INTERNATIONAL AFFAIRS COMMITTEE**

Monday, June 2, 2:00 p.m.-6:00 p.m., Hyatt, Lone Star A, Level 2

**IOHA 2018 PLANNING MEETING (BY INVITATION)**

Thursday, June 5, 7:00 a.m.-9:30 a.m., Hyatt, Goliad, Level 2

**IONIZING RADIATION COMMITTEE**

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Crockett A, Level 4

**J****JOINT INDUSTRIAL HYGIENE ETHICS EDUCATION COMMITTEE**

Sunday, June 1, 7:00 p.m.-9:00 p.m., Hyatt, Travis A, Level 3

**JOINT INTERNATIONAL BOARD MEETING (BY INVITATION)**

Saturday, May 31, 12:00 p.m.-4:00 p.m., Hyatt, Presidio B, Level 3

**L****LABORATORY HEALTH AND SAFETY COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Independence, Level 3

**LEGAL ISSUES COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Mission B, Level 2

**LEGIONELLA PROJECT TEAM**

Monday, June 2, 12:30 p.m.-2:00 p.m., Hyatt, Independence, Level 3

**M****MANAGEMENT COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Presidio B, Level 3

**MINORITY SIG**

Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Bonham D, Level 3

**N****NANOTECHNOLOGY WORKING GROUP**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Crockett A/B, Level 4

**NOISE COMMITTEE**

Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Seguin A/B, Level 4

**NONIONIZING RADIATION COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Travis A, Level 3

**O****OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY COMMITTEE**

Wednesday, June 4, 2:00 p.m.-4:00 p.m., Hyatt, Independence, Level 3

**OCCUPATIONAL AND ENVIRONMENTAL MEDICINE COMMITTEE**

Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Travis A, Level 3

**OIL AND GAS WORKING GROUP**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Bonham B, Level 3

**ORANGE COUNCIL**

Monday, June 2, 10:30 a.m.-11:30 a.m., Hyatt, Travis B, Level 3

**P****PERMANENT CONFERENCE COMMITTEE**

Wednesday, June 4, 4:00 p.m.-6:00 p.m., HBGCC, 218

**PHARMACEUTICAL ROUND ROBIN COMMITTEE**

Wednesday, June 4, 8:00 a.m.-9:30 a.m., Hyatt, Bowie B, Level 2

**PRODUCT STEWARDSHIP SOCIETY BOARD MEETING**

Monday, June 2, 4:00 p.m.-6:00 p.m., Hyatt, San Jacinto, Level 2

**PROTECTIVE CLOTHING AND EQUIPMENT COMMITTEE**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Travis B, Level 3

**PUBLICATIONS COMMITTEE**

Tuesday, June 3, 10:30 a.m.-11:30 a.m., HBGCC, 215

**R****REAL TIME DETECTION SYSTEMS COMMITTEE**

Wednesday, June 4, 1:00 p.m.-3:00 p.m., Hyatt, Bowie B, Level 2

**RED COUNCIL**

Monday, June 2, 12:30 p.m.-1:30 p.m., Hyatt, Travis B, Level 3

**RESPIRATORY PROTECTION COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Bonham D, Level 3

**RISK ASSESSMENT COMMITTEE**

Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Mission B, Level 2

**S****SAFETY COMMITTEE**

Tuesday, June 3, 3:00 p.m.-5:00 p.m., Hyatt, Bowie A, Level 2

**SAMPLING AND LABORATORY ANALYSIS COMMITTEE**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Presidio B, Level 3

**SOCIAL CONCERNS COMMITTEE**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Bonham E, Level 3

**STEWARDSHIP AND SUSTAINABILITY COMMITTEE**

Monday, June 2, 2:00 p.m.-4:00 p.m., Hyatt, Bonham D, Level 3

**STUDENTS AND EARLY CAREER PROFESSIONALS COMMITTEE**

Wednesday, June 4, 10:30 a.m.-12:30 p.m., Hyatt, Bowie A/B, Level 2

**T****TOXICOLOGY COMMITTEE**

Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Mission B, Level 2

# INDEX OF BOARD AND VOLUNTEER GROUP MEETINGS

## V

### VIOLET COUNCIL

Tuesday, June 3, 11:30 a.m.-12:30 p.m., Hyatt, Travis B, Level 3

### VOLUNTEER RECOGNITION CEREMONY AND RECEPTION (BY INVITATION)

Tuesday, June 3, 5:00 p.m.-6:30 p.m., Hyatt, Lone Star B/C, Level 2

### VOLUNTEER GROUP CHAIRS MEETING

Thursday, June 5, 9:00 a.m.-10:00 a.m., Hyatt, Bonham D, Level 3

### VOLUNTEER GROUP SECRETARIES ORIENTATION

Thursday, June 5, 10:30 a.m.-11:30 a.m., Hyatt, Bonham D, Level 3

### VOLUNTEER ORIENTATION

Monday, June 2, 2:00 p.m.-3:00 p.m., Hyatt, Bonham C, Level 3

## Y

### YELLOW COUNCIL

Wednesday, June 4, 12:00 p.m.-1:00 p.m., Hyatt, Travis B, Level 3

## AIHA Local Sections

### LOCAL SECTIONS COUNCIL BUSINESS MEETING

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Lone Star A, Level 2

### LOCAL SECTIONS OFFICERS TRAINING

Tuesday, June 3, 1:00 p.m.-1:30 p.m., Hyatt, Lone Star A, Level 2

### STUDENT LOCAL SECTIONS COUNCIL BUSINESS MEETING

Tuesday, June 3, 11:00 a.m.-12:30 p.m., Hyatt, Seguin A, Level 4

## AIHF

### AIHF BOARD OF TRUSTEES

Tuesday, June 3, 3:30 p.m.-5:30 p.m., Hyatt, Travis A, Level 3

## JOEH

### JOEH EDITORIAL REVIEW BOARD

Sunday, June 1, 7:00 p.m.-9:00 p.m., Hyatt, Seguin A/B, Level 4

### JOEH LLC BOARD MEETING

Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Bonham C, Level 3

## ACGIH

### ACGIH BOARD OF DIRECTORS MEETING

Sunday, June 1, 8:00 a.m.-5:00 p.m., Hyatt, San Jacinto, Level 2

### ACGIH FOHS BOARD MEETING

Monday, June 2, 10:30 a.m.-12:00 p.m., HBGCC, 215

### ACGIH MEMBERSHIP RECEPTION AND ANNUAL MEETING

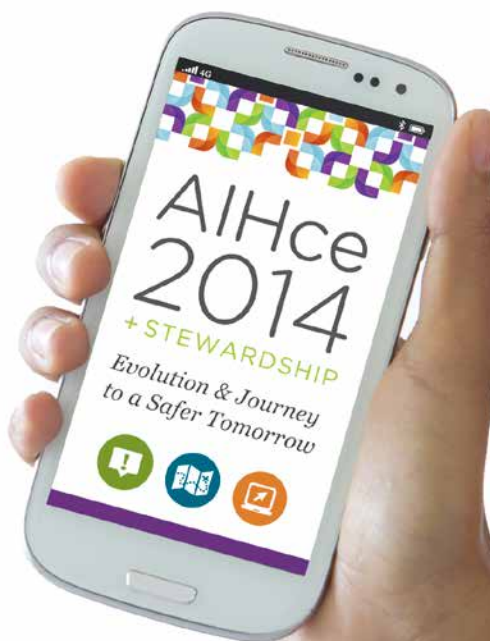
Sunday, June 1, 6:00 p.m.-7:30 p.m., Hyatt, Lone Star A, Level 2

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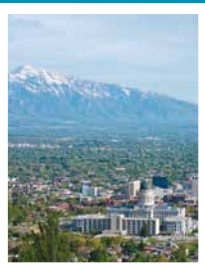
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## THANK YOU ...

TO THE FOLLOWING VOLUNTEERS FOR THEIR TIME AND EXPERTISE IN ASSEMBLING THE 2014 PROGRAM.



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