AIHce2014
+ STEWARDSHIP

Evolution & Journey to a Safer Tomorrow

FINAL PROGRAM

Co-sponsored by

ACGIH
Defining the Science of Occupational and Environmental Health®

AIHA
1939 - 75 YEARS - 2014
Protecting Worker Health
The Solution is Clear

Gastec’s Single-Stroke Sampling is Fast and Accurate.....

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:

- Less Sampling Time
- Less Chance of Errors
- No Miscalculated Strokes

For over 40 years, the Gastec Pump and Tube System has provided fast, simple, and precise gas measurements and remains a clear leader in detector tube technology.

Gastec offers a complete line of Detector Tubes for over 600 applications. Visit our website at www.nextteq.com

Want to swap your current pump and tube system for better technology, better quality, and better value? Contact us today and we’ll tell you how to get a free pump!

For more information: NEXTTEQ LLC
Toll-free: 877-312-2333 • email: info@nextteq.com

Gastec tubes and pumps are manufactured by Gastec Corporation. Nextteq is Gastec's exclusive U.S. master wholesale distributor.
FREE

TANGO™
SINGLE GAS MONITOR
SENSORS

Keep your workers safer
for 6 years at
$45 per year.

Receive a FREE replacement pack of
H₂S or CO sensors for your Tango.

To be eligible:

Buy a Tango (CO or H₂S) from your local distributor between February 1 and July 31, 2014.

Register your Tango at www.indsci.com/warranty prior to December 31, 2014.

Redeem the offer at www.indsci.com/tangosensorpromo once the initial warranty period of the Tango sensors expires in 2017 to receive your FREE replacement sensor pack.

To learn more about the Tango TX1 with DualSense™ Technology, visit www.indsci.com/tango.

Offer valid in the U.S., Canada, Latin America and South America only.

Visit booth 5019 at the AIHce 2014
Congratulations to AIHA!
Protecting worker health for 75 years!

Full-service environmental and industrial hygiene testing:
- Vapor Intrusion/T0-15
- Lead
- Beryllium
- Methamphetamine
- Dietary Supplements
- Pesticides
- Perchlorate
- White Phosphorus
- Amines
- TEM characterization of nanoparticles
- Vermiculite
- Diacetyl/Acetoin
... and much more!

Come see us at AIHce in Booth 5025!
REAL-TIME. ALL THE TIME.

PRECISION MEASUREMENT INSTRUMENTS FOR ACCURATE, RELIABLE, REAL-TIME TESTING AND MONITORING IN A WIDE VARIETY OF APPLICATIONS.

Dust Monitoring
Models available for individual worker breathing zone, long-term surveying and unattended, remote indoor or outdoor applications

Quantitative Respirator Fit and Mask Integrity Testing
OSHA-compliant for fit testing all respirators including N95, and integrity testing of most gas mask and full face respirator types and sizes

Ventilation Testing and Indoor Air Quality Monitoring
Versatile probe options available to enable various indoor air quality and HVAC measurements

NEW
+ Robust Outdoor Enclosure
+ Cloud Data Storage Solution
+ Heated Inlet

NEW
+ FitPro+™ Fit Test Software

TO LEARN MORE, VISIT TSI AT AIHce 2014 BOOTH #4007
Stop by and see what’s happening at AIHA!

Enjoy 15% off AND free shipping on all publications, including these brand new titles:

- Ethics for the Safety and Health Professional: Approaches and Case Studies
- 2014 ERPG/WEEL Handbook
- 2014 ERPG Update Set

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!
# AIHce At a Glance

<table>
<thead>
<tr>
<th>Saturday – Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tr>
<td>May 31 - June 1</td>
<td>June 2</td>
<td>June 3</td>
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<tr>
<td>8:00 am</td>
<td>Opening Session</td>
<td>General Session</td>
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<td>NOON</td>
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<td>EXPO &amp; POSTER SESSIONS</td>
<td>EXPO &amp; POSTER SESSIONS</td>
<td>EXPO &amp; POSTER SESSIONS</td>
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<td>MSA/AIHA Reception</td>
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[www.AIHce2014.org](http://www.AIHce2014.org)
Your Protection is our priority

OHD, Inc., specializes in Occupational Health and IH Instrumentation and software to help protect your employee’s health, and manage your occupational risks. Whether you are looking for the Quantifit® respirator fit tester, noise dosimeters, sound level meters, environmental noise monitoring systems, spirometers, or audiometers, we can provide you with a complete solution. With a full service calibration and service department, OHD’s goal is to serve each client with the excellence and professionalism expected in today’s competitive market.

See our products at booth 2039
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

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. Need assistance? Please stop by the Speaker Ready Room.

CERTIFICATION

www.aihce2014.org/certification

For detailed information about CIH requirements, contact ABIH directly at www.abih.org or visit the ABIH Booth #6070 when on-site.

SPECIAL EVENTS

MSA/AIHA Reception
Tuesday 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.

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.

www.aihce2014.org
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.

**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

**MOCK INTERVIEWING**

*Tuesday, June 3, 10:00 A.M. – 12:00 P.M. & 1:00 PM – 3:00 P.M.*  
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.
STUDENT AND YOUNG MEMBER ACTIVITIES

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

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.

STUDENT LOCAL SECTIONS COUNCIL BUSINESS MEETING
Tuesday, June 2, 11:00 a.m. – 12:30 p.m
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.

STUDENT 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.

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

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.

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.

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STUDENT TABLE TOPICS
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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.

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® 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/m³ (0.000050mg/m³), and it can detect as high as 0.5mg/m³. 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):

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<th>Gas Level</th>
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<th>Precision (RSD)</th>
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<td>1 μg/m³</td>
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<td>9am</td>
<td>Networking Break</td>
<td>Emerging Chemical Regulatory Issues – II</td>
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<td>Stewardship Profession &amp; Core Competencies</td>
<td>Networking Break</td>
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<td>Opening Cocktail Reception in Expo</td>
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Thank you to the following sponsors for supporting Stewardship 2014:

- Richard M. Fairbanks School of Public Health
- Deskin Associates/ToxMinds
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

1:00 p.m. – 5:00 p.m.
- 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

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
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, 006B
- 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 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 Labeling, 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.
ABHI Board Meeting, Hyatt, Goliad, Level 2
5:30 p.m.-7:00 p.m.
Lynn C. O’Donnell Retirement Recognition, 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

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
Exp
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.  
PO101 Communication & Training - A HodgePodge, HBGCC, 205
PO102 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.  
PO103 Biological Monitoring and Occupational Medicine: You are as Healthy as What You Absorb, HBGCC, 006A/B

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.  
AIHA First Timer Orientation, HBGCC, 008
9:00 a.m. – 4:00 p.m.  
Volunteer Red Carpet Club, HBGCC, Bridge Hall

Monday At-a-Glance

14 AIHA 2014 Final Program
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, South 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 A, 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

www.AIHce2014.org
**MONDAY TECHNICAL SESSIONS**

### CR301
**COMPOUNDING PHARMACIES – WHAT INDUSTRIAL HYGIENISTS NEED TO KNOW**

**10:00 A.M.-11:00 A.M.**  
HBGCC 214 B  

**Presenter:** D. Miskowski, ENSL Analytical Inc, Cinnaminson, N.J.  

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. Pharmacopia 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, SEPA, UCM, Warrensburgh, MO. **Moderator:** D. Robbins, Emirates National Oil Company, Dubai, United Arab Emirates. **Monitors:** S. Lynch, Auburn University, Schenectady, NY. **Arranger:** J. Zey, SEPA, UCM, Warrensburgh, MO. **Moderator:** D. Robbins, Emirates National Oil Company, Dubai, United Arab Emirates. **Monitors:** S. Lynch, Auburn University, Schenectady, NY.

### 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, State College, PA.

### 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.

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### 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 OHES 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.
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 (H2S). By using a hand held hydrogen sulfide gas detector a H2S ppb reading can be determined as well as aid the calculation in determining % H2S. Coupling these two methods for crude oil analysis offer both analytical and safety hazard information.

**10:00 A.M. – Pavilion 2**

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

DualSense® Technology, found in the all-new Tango(TM) 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 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 hydrofrakkit 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 Versa-Flo 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 Respirator, 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 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 proactively 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 Absorp-
tion. K. Font, 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 & Sveboda, Inc, Prior Lake, MN.

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

RT201
GAME CHANGERS IN INDUSTRIAL HYGIENE AIR SAMPLING
10:30 A.M.-12:30 P.M.
HBGCC 006 C-D

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

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.

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, Medshare Environmental Health & Safety Services, Cupertino, CA. Moderator: S. Derman.
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 bands have been successfully used

- Can the NIOSH Health Hazard Banding Decision Logic be Applied Consistently? A User’s Preview. I. McKernan, NIOSH, Cincinnati, OH.
- 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.

P0104
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. A. 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. Smigielinski, University of Toledo, Toledo, OH; F. Akbar-Khazadeh, University of Toledo, Toledo, OH.

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

RT205
THE IH CHALLENGE: DO ACADEMIC, BUSINESS, POLITICAL AND PROFESSIONAL NEEDS ALIGN?
10:30 A.M.-1:00 P.M.
HBGCC 207

11:30 A.M.-12:30 P.M.
HBGCC 214
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.

Full session descriptions on the AIHce Mobile App.
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: J. Kunz, 3M, St. Paul, MN. Moderator: C. Johnson, IBG EHS, 3M, St. Paul, MN. Monitors: D. Coleman, Safex, Columbus, OH; L. Banks, Olympia, WA.

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.


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: D. Coleman, Safex, Columbus, OH; L. Banks, Olympia, WA.

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. Gripps, 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. Alampri, 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. Dauphante, 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

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. Cyns, Cardno Chemrisk, San Francisco, CA.
• If at First You Don't Succeed…………… – J. Wallace, Woodard & Curran, Portland, ME.
• Excel-rate 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, SQ2A, 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
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.

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
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.

P0108
IAQ CASE STUDIES (4)
2:00 P.M.-4:30 P.M.
HBGCC 217 D

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.

SR-108-03 Interesting Lessons Learned from Indoor Air Quality Investigations. D. Peters, Environmental Health Management, Louisville, KY.


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.

CS-108-06 Malodor Due to an Aliphatic Teri- tiary Amine at a Hotel: An Unlikely Source. J. Kominsky, Environmental Quality Management, Inc., Cincinnati, OH.


CS-108-08 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

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.

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. Krishnamurthy, 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. Froehbrot, University of Alabama at Birmingham, Birmingham, AL.; P. Morris, Evonik Industries, Morgantown, WV.

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, Bayamón, 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

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, Westford, 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.
- 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 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

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.
- 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.

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.

Keeping Your Most Valuable Assets Safe

Safety Matters

Tools and consumables for industrial hygienists who perform air sample collection and analysis of contaminants.

• radiello™ passive sampling device
  - Easy to use
  - No sampling pump required
  - Low detection limits

• ASSET™ EZ4-NCO dry sampler for isocyanates
  - Easy to use
  - Low detection limits
  - Sampling from 5 minutes to >8 hours

• Analytical standards and reagents

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Sigma-Aldrich.com/air-monitoring
Something in the air? Within
No calibration. No training.

Nextteq’s VeriAir Flex® Self-Inflating Sample Bags
are a revolutionary, patented all-in-one pump and sample bag that lets you rapidly collect an air or gas sample for storage and analysis. No maintenance. No batteries.

No Special Training Required! No need to wait days or even weeks to collect and analyze an air or gas sample. With the VeriAir Flex you can grab a whole air sample, send it to a lab or do on-site analysis in a matter of minutes, anywhere, anytime. Perfect for nuisance aromas, HazMat situations, or any application that requires quick response.

VeriAir Flex is available in two choices of sample collection material, a robust multilayer foil and the industry Standards Tedlar. The 6-mil multilayer foil bag features a nylon coated aluminum exterior and polyolefin interior lining. New for 2014, Nextteq is offering the VeriAir Flex in Tedlar, perfect for EPA emissions test methods that specify Tedlar bags. All VeriAir Flex bags are analytical grade, intrinsically safe and feature our patented design with 4 mm corrugated plastic exterior panels made of static charge dissipating materials. A unique serial number is printed on the label for the ultimate chain of custody traceability.

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<th>Sample Method Comparison</th>
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<th>VERIAIR FLEX TEDLAR</th>
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<td>No extra equipment needed to collect sample</td>
<td>yes</td>
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<td>no</td>
<td>no</td>
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<tr>
<td>Ready to sample anytime, anywhere - NO preparation needed</td>
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<td>yes</td>
<td>no</td>
<td>no</td>
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<tr>
<td>Can be air shipped when filled with sample (up to 33,000 feet)</td>
<td>yes</td>
<td>no</td>
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<td>yes</td>
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<td>Ability to sample with a detector tube or portable instrument before sending to lab</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
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<tr>
<td>Off-site sample analysis can be performed with no dilution gas or volume calculations</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
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<tr>
<td>Easily reusable with manual flushing capability</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>100% of sample available for testing</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
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</table>

Tedlar Now Available!
seconds, it’s in the bag.
No kidding!

SAMPLING IS AS EASY AS 1-2-3:
1. OPEN VALVE
2. PULL HANDLES
3. CLOSE VALVE
That’s it! Your collected sample is ready for analysis. The VeriAir Flex Sample Bag can be shipped in a pressurized airline cargo compartment for maximum transportation flexibility.

Open Valve

Pull Handles

Close Valve

Ordering Information

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<tr>
<td>31019</td>
<td>Tedlar</td>
<td>1 liter</td>
</tr>
</tbody>
</table>

For more information: NEXTTEQ LLC
Toll-free: 877-312-2333  •  email: info@nextteq.com
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Visit us at Booth# 6033
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, LLM, Director, NIOSH, Washington, DC

9:00 a.m. - 3:00 p.m.
General Session
- Expo Learning Pavilion, Expo, sponsored by Exhibitor Product Demos and Presentations, 9:30 a.m. - 1:30 p.m.
- HBGCC, Grand Ballroom C
- HBGCC, Bridge Hall
- HBGCC, 217D

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.
- PO109 Healthcare Industries I: Infection Control Issues, HBGCC, 007C/D
- PO110 Laboratory Health and Safety, HBGCC, 214A
- PO111 Stewardship and Sustainability: Lessons from the Real World, HBGCC, 213
- PO112 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
- SP15 Pandemic Preparedness - Respirator Supply Issues, HBGCC, 214D
- 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, 217A

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
- CR316 The Hidden Million-Dollar Liability: Non-Liquid PCBs, HBGCC, 217D

1:30 p.m. - 4:30 p.m.
- TT-01 Toyota Motor Manufacturing Texas (TTMTEX) Plant, [Pre-registration fee required]
- PO114 Changes in Construction & Confined Space Safety, HBGCC, 006C/D
- PO118 Safety Issues, HBGCC, 214B
- PO119 Aerosols I, HBGCC, 006A/B
- RT222 Managing Occupational Health Risk in Pharmaceutical Industries in Emerging Economies, HBGCC, 212A/B
- 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. - 3:00 p.m.
- PO115 Real Time Detection Systems I, HBGCC, 214A
- CR223 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
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, 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, Creighton 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.
ABH 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, Presidio C, Level 3
4:00 p.m.–7:00 p.m.
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, Presidio C, Level 3
4:00 p.m.–7:00 p.m.
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

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

www.AIHce2014.org
**TUESDAY TECHNICAL SESSIONS**

**28**

**Central Missouri, Warrensburg, MO.**

Central Missouri, Warrensburg, MO; R. Brown, University of Westat, Rockville, MD.

**Monitors:**

**Moderator:**

**Arranger:**

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**TUESDAY, JUNE 3**

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**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.

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**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 Forrestal catastrophe, this seminar will explore the importance of hazard recognition and how leading indicators can strengthen your safety and health programs.

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**RT215**

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

**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, Betzona 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.

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**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.
- 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.

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**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.

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**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 largely 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.
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 EBEA Systems, ILC Dover
ILC Dover presents the world’s leading APER escape respirator. With over 400,000 fielded worldwide, SCAPE® is trusted 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 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
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 DustTraks 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.
P0110
LABORATORY HEALTH AND SAFETY
10:30 A.M.-12:30 P.M.
HBGCC 214 A

Arranger: L. Wang, 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.

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. Carnight, B. Kellmer, 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. Mamani, 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


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.

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

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


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

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; D. 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 USAAF & 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. McLeod, 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. Papov, University of Central Missouri, Warrensburg, MO.
- Assessing Decontamination Effectiveness. F. Bolton, Consultant, Los Alamitos, 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.

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.

- 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: D. 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.

**CR311**

**APPLYING SAFETY & ENVIRONMENTAL MANAGEMENT SYSTEMS MODELS TO MANAGING WORKPLACE 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.

**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.
**Technical Sessions** TUESDAY, JUNE 3

**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. Mckerman, 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**

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.

**IL04—LUNCHEON DISCUSSION**

**UNSOLVED IH MYSTERIES WORKSHOP**

 Moderator: F. Boelter, Environ International, Chicago, IL

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.

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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.
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.


- The Challenges and Successes of Establishing a Robust and Sustainable EHS Program at a Research and Development Pharmaceutical Site in Hyderabad, India. R. Hirsch, 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.


**CR314**

**USE YOUR INTERPERSONAL COMMUNICATION SKILLS FOR IMPROVED SAFETY!**

*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**

*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.*

**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.*

**CS-115-02 A Rapid and Accurate Field Method for Reduced Sulfur Compounds by GC/FPD.**

*M. Maclachlan, PID Analyzers, LLC, Sandwich, MA.*

**CS-115-03 Field-Portable Infrared Spectroscopy for Simultaneous Detection and Quantitation of an Unexpected Airborne Contaminant.**

*J. Maclachlan, PID Analyzers, LLC, Sandwich, MA.*

**CR313**

**RISK MANAGEMENT SYSTEMS 4.0: INTEGRATING ISO 22301, 14001, AND 31000**

*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.
Technical Sessions  TUESDAY, JUNE 3

PO117
RESPIRATORY PROTECTION I
2:00 P.M.-4:30 P.M.
HBGCC 214 D

2:00 P.M.-2:30 P.M.
John M. White Award

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

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

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. Sabols, D. Symons, J. Maness, W. Milbrandt, M. Parham, Scott Safety, Monroe, NC.

P0119
SAFETY ISSUES
1:30 P.M.-3:45 P.M.
HBGCC 214 B

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. Hrycusha, 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. Croll, C. Dominguez, B. Stover, N. Seixas University of Washington, Seattle, WA.

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

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 Safeguards: 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

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

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.O. Anderson Cancer Center, Houston, TX.

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

RT223
ACCURACY OF PROFESSIONAL JUDGMENT: AIR, DERMAL, AND NOISE EXPOSURE ASSESSMENT
2:00 P.M.-5:00 P.M.
HBGCC 007 C-D

A two-day workshop provided participants with qualitative and quantitative tools to help improve the consistency and accuracy of exposure judgments using the EAC’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.
- Air Exposure Judgment. S. Arnold, University of Minnesota, Minneapolis, MN.
- Noise Exposure Judgment. C. Johnson, 3M, St. Paul, MN.
- Dermal Exposure Judgment. J. Sahmel, Carolino Chemrisk, Boulder, CO.

RT224
MANAGEMENT OF CHANGE (MOC) IN RESEARCH AND DEVELOPMENT ENVIRONMENTS
2:00 P.M.-5:00 P.M.
HBGCC 205

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.
TUESDAY, JUNE 3  Technical Sessions

- Laboratory Change Management - Key Elements and Best Practices for an Effective Approach. I. Seiler, DDW, 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, Weil-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

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.


Sink or Swim. J. Brown, Ascend Performance Materials, Decatur, PA.

Breaking Down Barriers to Build Up Trust. C. Novde, 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.

- 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, SD2, 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, SD2, Inc., Hampton, VA
Come ‘n Get It!

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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, AEC 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


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.


• Hydrocarbon Emissions and Risks for Worker Exposures During Well Flowback (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


This talk will review: PCB Chemistry; the uses, health impacts, and regulations of non-liquid PCBs (NLPCBs); and EPA’s guidance document.
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

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: Antineoplastics Drugs and Disinfection Issues, HBGCC, 214B
• P0123 Real Time Detection Systems II, HBGCC, 004C/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, 216A

11:00 a.m.-3:00 p.m.
• PP0124 Aerosols II, HBGCC, 214D
• P0125 Environmental Issues for EH&S Professionals, HBGCC, 007C/D

12:30 p.m.-1:30 p.m.
• TT-02 Center for Intrepid (CFI), Brooke Army Medical Examination (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, 004C/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
• IEO: 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

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
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

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, predominate 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


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.

P0120

COMMUNICATING RISK CHARACTERIZATIONS: SCIENCE AND PERCEPTIONS

10:00 A.M.-12:00 P.M.
HBGCC 006 A/B


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

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

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 A Novel Approach for Evaluating 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.

PO121

CONSIDERATIONS WHEN SELECTING CHEMICAL PROTECTIVE GLOVES

10:00 A.M.-12:00 P.M.
HBGCC 205


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, 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, JIRS Corporation, Pittsburgh, PA; T. Rozzi, P. Gao, NIOSH, Pittsburgh, PA; P. Hopke, K. Wang Clarkson University, Potsdam, NY; D. Schwenger-Berry, B. Chen, NIOSH, Morgantown, WV; M. Dahn, NIOSH, Cincinnati, OH.
P0122
HEALTHCARE INDUSTRIES II: ANTI NEOPLASTIC DRUGS AND DISINFECTION ISSUES
10:00 A.M.-12:00 P.M.
HBGCC 214 B
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. Kragieszmidt, M. Austin Mayo Clinic, Rochester, MN; Mayo Clinic, Rochester, MN.
11:30 A.M.-12:00 P.M.

P0123
REAL TIME DETECTION SYSTEMS II
10:00 A.M.-12:00 P.M.
HBGCC 006 C/D
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.
11:00 A.M.-11:30 A.M.
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
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.
- Implementation of the GHS for Workplace Chemicals in Canada. C. Gioiella, 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. Cyrs, 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
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. Saltman, Terracon Consultants, Inc., Olafie, 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!
**Wednesday Technical Sessions**

**PO124**

**AEROSOLS II**

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

**HBGCC 214D**

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.**


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


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

SR-124-03 Use of and Occupational Exposure to Welding Fume Nanoparticles. J. Cena, M. Keane, W. Chisholm, B. Chen NIOSH, Morgantown, WV.

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

SR-124-04 Assessment of Lead Aerosol and Acicid 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.

**PO125**

**ENVIRONMENTAL ISSUES FOR EH&S PROFESSIONALS**

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

**HBGCC 007 C/D**

Arranger: L. Wang, EHS, 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.**


**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.**


**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. Kostla, 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.

**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
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. Groetzmacher, WI State Lab of Hygiene, UW-Madison, Madison, WI; B. Thomas, Integrated Environmental Management, Findlay, OH.

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

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. Maunier, O. Malik, ECHO, 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: S. Linsley, DHHS/ Indian Health Service, Albuquerque, NM; P. Zoubek, Wisconsin State Lab of Hygiene, Burnaby, BC, Canada.

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.

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. Cicone, D. 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. R. 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. DeMeo, 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.

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, J. 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.

**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.

**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.**
J. Persky, N. Fox, F. Boelter, ENVIRO International Corp., Chicago, IL.

**3:00 P.M.-3:30 P.M.**
SR-129-05 Dropped Ceiling Installation and Maintenance: Cumulative Exposures to Asbestos Fibers.  
F. Boelter, Y. Xia, J. Persky, ENVIRO 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.
4:30 P.M.–5:00 P.M.  
PO136  
**IH LEGAL ISSUES**  
1:30 P.M.–5:00 P.M.  
HBGCC 214 B  
**Arranger:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA.  
**Moderator:** T. Scheffers, G. Wieling, C. Coucke, Dohsbase v.o.f., Eersel, Netherlands.  
**Monitors:** B. Lippy, CPWR - The Center for Construction Research and Training, Silver Spring, MD; K. Carlson, Bureau Veritas of North America, Houston, TX.  

**PO136**  
**IH LEGAL ISSUES**  
1:30 P.M.–5:00 P.M.  
HBGCC 214 B  
**Arranger:** D. Dahlstrom, New Era Sciences, LLC, Issaquah, WA.  
**Moderator:** T. Scheffers, G. Wieling, C. Coucke, Dohsbase v.o.f., Eersel, Netherlands.  
**Monitors:** B. Lippy, CPWR - The Center for Construction Research and Training, Silver Spring, MD; K. Carlson, Bureau Veritas of North America, Houston, TX.  

**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. McNinis, Boilermakers International, Fall River, NS; C. Wesley, Celden 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.  
- Silica Dust Controls for Asphalt Paving and 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.  

**PO131**  
**INNOVATIONS IN IH SAMPLING AND ANALYSIS**  
2:00 P.M.–2:30 P.M.  
HBGCC 214 C  
**Arranger:** J. Cooper, Bureau Veritas, Novi, MI.  
**Moderator:** D. Sandusky, Forensic Analytical Laboratories, Inc., Hayward, CA.  
**Monitors:** M. Hash, Abhivy, 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, UGAM, 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 Arsenic at Low-ppb Levels by HG/GC/PID. J. Mecachlan, 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.  

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.  

**www.AIHce2014.org**
**Technical Sessions  WEDNESDAY, JUNE 4**

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

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

**4:30 P.M.-5:00 P.M.**
CS-130-06 Increase Potential for Glucose Metabolism Interference and Retinal Microaneurysms from Carbon Disulfide (CS2) 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. Svare, Stanford, 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 developed by 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 Ila. 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.

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 Microanalítico 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, ECOH, Mississauga, ON, Canada.
- 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

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. Caldarelli, OSHA, Hartford, CT.
- The Manufacture of Alternative Water Treatment Chemicals: Control Challenges with Corrosives. R. Kirkhovacz, OSHA, Center Valley, PA.

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*Sponsored by Scott Safety

* Archives from past conferences are also available.
• 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

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

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. Woom, Center for Toxicology and Environmental Health, LLC, North Little Rock, AR.
• 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

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.

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, Extton, 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

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

3:00 P.M.-5:00 P.M.

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*Please note, if you purchased a Premier Registration package during registration, you will receive a code via email to access AIHce On Demand after AIHce 2014.
6:30 P.M.-7:00 P.M.  
CS-133-05 Lessons Learned in Implementing H&S in a Developing Country. M. Hrycusko, 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.  

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.

5:30 P.M.-8:00 P.M.  
HBGCC 217 D


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. Hatton, OSHA, Sandy, TX.
- 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. Trombettas, 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.
THURSDAY, JUNE 5
7:00 a.m. – 10:30 a.m.
Registration, HBGCC, East Registration
7:30 a.m.–6:30 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
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 andReviewing, 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
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, N.J. Moderator: L. Weems, Industrial Hygiene, CTER, 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. Jaggaras, A. Stangroom, C. Briggs, ENVIRON International, Boston, MA.
10:00 A.M.-10:30 A.M.

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 Faber 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, Catterpillar Inc, Peoria, IL; A. Korcheskij, Chemistry & Industrial Hygiene, Inc., Wheat Ridge, CO.
Moderator: M. Zock, FedEx Ground, Moon Township, PA.
Monitors: M. Cooper, Exponent, Menlo Park; Q. 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.
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
The construction sector continues to be a challenge to manage safety. 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.

P0137
ADVANCES IN GREEN BUILDING
8:30 A.M.-12:30 P.M.
HBGCC 217 A

- 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.
**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.

**SP12**

**SDS AUTHORING 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 once: an open and 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


**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.

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Technical Sessions  THURSDAY, JUNE 5

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

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. Nocca, 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. Collina, A. Dastidar, A. Theis, Fauske and Associates, Burr Ridge, IL.

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

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

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 protective, society costs, and benefits. A time for audience questions and discussion will be provided.

- 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, Kleinfielder, Benicia, CA.
- California Community Exposure to Naturally Occurring Asbestos. B. Heckman, LaCroix Davis LLC, Carlisle, PA.
- Achieving a World Free of Asbestos Risk. F. Boelter, ENVIRON, Chicago, IL.

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Presentation:
Advances in Green Building
‘VOC Investigations: What’s in the Air?’
Thursday, June 5th from 8:30am to 9:00am

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AIHce 2014 Final Program
RT244
CRYSTALLINE SILICA EXPOSURES IN CONSTRUCTION
12:30 P.M.-4:30 P.M.
HBGCC 214 D
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.

- Impacts of the Proposed Rule on Small and Non-Union Contractors. L. Capicik, Brasfield & Gorrie, LLC, Kennesaw, GA.
- Quantifying and Controlling the Exposure of Heavy-Equipment Operators to Crystalline Silica Dust. M. Pannell, OSHA, Springfield, VA.
- 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
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.

- Internal Aspects and Benefits of Lifecycle Management. L. Eichinger, 3M Company, Maplewood, MN.
- Business Benefits of Sustainability Reporting. L. Barnes, Bureau Veritas North America, Lakewood, CO.

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.

- A Commitment to Products that Help Protect or Enhance Human Health, Safety, and the Environment. B. Dawson, DuPont, Wilmington, DE.

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MONDAY, JUNE 2

PS401
9:00 A.M.-5:00 P.M.
Author Attend Time: 10:00 a.m. - Noon

CONSTRUCTION

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

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-Dobeka, NIOM, Lodz, Poland.

CS-401-07 Exposure on Toluene Diisocyanate in Foaming Process in Poland. S. Czerczak, M. Kupczewska-Dobeka 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. Kirn, 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 Esters 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.


NOISE


CS-401-16 Case Study at the Museum: An Unanticipated Setting for Noise Exposure Concerns. B. Epstien, Epstien 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. Portnof, P. Jagues, USRS Corporation, Pittsburgh, PA; USRS 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


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 and Safety 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.

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.


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.


TUESDAY, JUNE 3

PS403

9:00 A.M.-3:00 P.M.

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-Pentanedi-one Exposures Associated with Cigarette Smoking: Implications for Risk Assessment of Food and Flavoring Workers. J. Pierce, A. Abelmann, 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


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


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-403-15 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. Jayock, 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. Weiqliang, 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

**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**


**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-404-09** 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. McSweeny, 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-404-15** 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.
EXPO HIGHLIGHTS

Henry B. Gonzalez Convention Center, Halls C&D

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 2
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-400 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 Sparklift 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 “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, Nilfisk 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
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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- **Street Level**—Enter this level (Registration and Expo)
- **Concourse Level**—Rooms 009-008
- **River Level**—Rooms 006-008

**LEVELS IN HBCC**

- **Concourse Level**—Ballroom C (General Sessions)
- **Ballroom Level**—Ballroom C (General Sessions)
- **Street Level**—Enter this level (Registration and Expo)
- **Concourse Level**—Rooms 201-218
- **River Level**—Rooms 006-008
EXPO FLOORPLAN

VISIT THE EXPO!
EXPO FLOORPLAN

EXPO HOURS
MONDAY, JUNE 2
9:00 AM – 5:30 PM
TUESDAY, JUNE 3
9:00 AM – 3:00 PM
WEDNESDAY, JUNE 4
9:00 AM – 1:30 PM
Exhibitors by Aisle

**Aisle 2000**
- GrayWolf Sensing Solutions
- Impacto Protective Products Inc.
- ProcessMap Corporation
- The Werks, Ltd., A UL Company
- Open Range Software LLC
- ASI Health Services
- Restek Corporation
- SDSpro
- Scoop® MAE Platform
- RightAnswer.com
- Portagas, Inc.
- National Library of Medicine
- Affygility Solutions
- AliMed Inc.
- Dakota Software Corporation
- The Auditing Roundtable, Inc.
- Columbia Southern University
- Materion Brush Inc.
- Innovative Ventilation Systems Inc.
- Source One MRO
- Magic Massage Therapy
- Crowcon Detection Instruments
- HCI Health, Inc.
- OHD, Inc.
- QuanTEM Microbiology Laboratories
- NARDA Safety Test Solutions
- GHS Safety
- Hays Affinity
- ILC Dover LP
- AllOne Health
- E.A.R., Inc.
- SafeTec
- Larson Davis
- ErgoGenesis
- RJ Lee Group, Inc.

**Aisle 3000**
- Contour Design Inc.
- ERGOMAT, Inc.
- Conestoga-Rovers & Associates
- Department of Labor (OSHA)
- Forensic Analytical Laboratories, Inc.
- MAS, LLC
- HIH Laboratory, Inc.
- American Society of Safety Engineers
- Magid Glove & Safety
- BEAC
- VICI Metronics, Inc.
- Apollo Marketing, LLC
- Ohio Lumex Company
- T K Group - On-site Medical Services

**Aisle 4000**
- Professionals (BCSP)
- ChemSW, Inc.
- Erlab, Inc.
- RAECO Rents
- Golder Associates Inc.
- Mycometer, Inc.
- IE Monitoring Instruments
- QuanTEM Laboratories
- Golden Corporation
- NuAire, Inc.
- Cirrus Research plc.
- Working Concepts, Inc.
- Sigma-Aldrich/Supelco
- Troy Acoustics Corporation
- Health Physics Society
- Axion Health, Inc.
- DCM Clean Air Products
- B3 Plastics Inc.
- National Registry of Certified Chemists
- ART Corporate Solutions, Inc.
- Miller Electric Mfg Co
- SEER Technology

**Aisle 5000**
- 3M Personal Safety Division
- Sensidyne, LP
- Industrial Scientific Corporation
- ALS Environmental
- Industrial Hygiene News
- Rimbach Publishing Inc.
- Arizona Instrument LLC
- Scott Safety
- GfG Instrumentation, Inc.
- Occupational Health & Safety
- Casella CEL Inc.
- BGI Instruments Inc.
- Pine
- SiteHawk
- Gasmet Technologies Inc.
- Prism Analytical Technologies, Inc.
- Fiberlock Technologies, Inc.
- MSDonline
- Tiger-Vac Inc. (USA)
Bowen EHS, LLC ................. 5071
Sandler Occupational Medicine Associates .......... 5075
CDC/NIOSH ................................ 5078
American Heart Association ..................... 5079
Eagle Safety Eyewear ..................... 5081
Fabenco, Inc .................................... 5083
Calgaz ........................................... 5084
TechnoFirst ................................... 5089

AISLE 6000
RAE Systems .............................. 6011
BW Technologies by Honeywell/Honeywell Analytics .......... 6011
Honeywell Analytics .................... 6011
Sibata USA Inc ............................ 6021
Nilfisk Industrial Vacuums, a division of Nilfisk-Advance, Inc .......... 6024
BUREAU VERITAS
NORTH AMERICA, INC. ............... 6025
Flow Sciences, Inc. ...................... 6026
Nextteq, LLC .............................. 6033
Assay Technology, Inc./AT Labs/MNR Services .......... 6034
SanAir Technologies Laboratory, Inc .................. 6038
Air Systems International ...... 6042,6043
Bruel & Kjaer ......................... 6046
Met One Instruments, Inc .............. 6047
CCDHS ........................................ 6049
EMSL Analytical, Inc. ....................... 6052
Bullard ........................................ 6055
Travelers Laboratory .................. 6068
SKC Inc. .................................... 6061
ESC Services, Inc. ..................... 6062
Entech Instruments, Inc. ............... 6064
Mesa Laboratories Inc ................... 6069
American Board of Industrial Hygiene .......... 6070
enviroflo, Inc. / Safescience Technologies .................. 6071
Advanced Calibration Designs, Inc. (ACD) .......... 6072
Concurrent Technologies Corporation .......... 6073
Westex ........................................ 6074
Expert Publishing (ExPub) a Division of EBSCO .......... 6075
University of South Florida Sunshine ERC .......... 6078
University of Washington - Environmental & Occupational Health Sciences .......... 6079
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Univ. of Illinois/Great Lakes Centers for Occupational & Environmental Safety & Health ........ 6081
Johns Hopkins Bloomberg School of Public Health .......... 6082
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Purdue University ....................... 6090
RMCOEH - University of Utah .......... 6091
University of Cincinnati Environmental and Occupational Hygiene .......... 6092
University of California, School of Public Health, Berkeley, CA .......... 6093

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Zefon International, Inc. .................. 7000
Analytics Corporation ..................... 7001
Argus-Hazco .................................. 7003
Essilor Prescription Safety Eyewear .......... 7005
Scientific Analytical Institute, Inc. .......... 7009
Interactive Safety Products, Inc. ........ 7011
EVAC+CHAIR North America, LLC .......... 7015
Kinetics Noise Control .................... 7017
WorkCare, Inc. .............................. 7019
EHS Today ..................................... 7020
Thermo Scientific - Air Quality Instruments & Portable XRF Analyzers .......... 7024
DuPont Protection Technologies .......... 7025
AMEC ............................................ 7029
PathCon Laboratories ..................... 7032
Ion Science Inc ......................... 7033
Fike Analytical Technologies, LLC .......... 7034
Labconco Corporation ..................... 7036
Gas Clip Technologies, Inc .............. 7037
Kanomax USA, Inc. ...................... 7042
Atlas Ergonomics ......................... 7043
CP Lab Safety ................................ 7046
Taylor & Francis Inc. ................. 7047
Kitagawa America, LLC .................. 7048
Concept Controls Inc ................. 7051
International Safety Systems, Inc. ........... 7055
ESIS, Inc. - Health, Safety & Environmental Services .......... 7068
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  Saturday, May 31, 8:30 a.m.-5:00 p.m., Hyatt, Bonham D, Level 3

- **ASIA PACIFIC 2014 PLANNING MEETING**  
  Tuesday, June 3, 1:00 p.m.-3:00 p.m., Hyatt, Presidio A, Level 3

#### B

- **BIOLOGICAL MONITORING COMMITTEE**  
  Tuesday, June 3, 2:00 p.m.-4:00 p.m., Hyatt, Independence, Level 3

- **BIOSAFETY AND ENVIRONMENTAL MICROBIOLOGY COMMITTEE**  
  Monday, June 2, 2:30 p.m.-4:30 p.m., Hyatt, Independence, Level 3

- **BLUE COUNCIL**  
  Wednesday, June 4, 1:30 p.m.-2:30 p.m., Hyatt, Travis B, Level 3

#### C

- **CAREER AND EMPLOYMENT SERVICES COMMITTEE**  
  Wednesday, June 4, 5:00 p.m.-7:00 p.m., Hyatt, Bonham E, Level 3

- **CLANDESTINE LABORATORIES WORKING GROUP**  
  Wednesday, June 4, 2:00 p.m.-4:00 p.m., Hyatt, Travis A, Level 3

- **COMMUNICATION AND TRAINING METHODS COMMITTEE**  
  Wednesday, June 4, 2:00 p.m.-4:00 p.m., Hyatt, Presidio A, Level 3

- **COMPUTER APPLICATIONS COMMITTEE**  
  Monday, June 2, 10:30 a.m.-12:30 p.m., Hyatt, Travis A, Level 3

- **COMPUTER APPLICATIONS PROJECT TEAM**  
  Tuesday, June 3, 4:00 p.m.-5:00 p.m., Hyatt, Presidio B, Level 3

- **CONFINED SPACES COMMITTEE**  
  Tuesday, June 3, 10:30 a.m.-12:30 p.m., Hyatt, Bowie A, Level 2

- **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

#### D

- **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, 10:30 a.m.-12:30 p.m., Hyatt, Presidio A, Level 3

- **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

- **EXPOURE 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
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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

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

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

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

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

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

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Monday, June 2, 10:30 a.m.-11:30 a.m., Hyatt, Travis B, Level 3

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 A, 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

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

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
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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

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VOLUNTEER GROUP SECRETARIES ORIENTATION
Thursday, June 5, 10:30 a.m.-11:30 a.m., Hyatt, Bonham D, Level 3

VOLUNTEER ORIENTATION
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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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TO THE FOLLOWING VOLUNTEERS FOR THEIR TIME AND EXPERTISE IN ASSEMBLING THE 2014 PROGRAM.

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