

November 2013



Philadelphia Section AIHA Newsletter

November 2013 Full-Day PDC: "What's New In IAQ?"

Please plan on joining us on **Tuesday, November 19th** at EMSL Analytical in Cinnaminson, NJ for a full-day professional development course focusing on indoor air quality.

The world of Indoor Air Quality field sampling and lab analysis is ever-changing as new guidelines, improved testing and analysis methods, and real-world findings add much to this science and use of findings for air quality improvements. This Philadelphia Section AIHA Professional Development Course will look at several interesting aspects that are current to the world of IAQ. First we will look at Legionella and the impact of the proposed new ASHRAE guidelines to prevent and control this disease. We will then look at use of lab analyses to aid insurance companies in post-fire investigations from the combustion by-products generated. The use of TO-15 sampling and analysis and as a newer tool for IAQ and odor investigations will then be explored including case studies and updates on the newest whole air sampling techniques. The consultant's perspective will also be explored as we discuss field experiences in IAQ investigations and solutions from a national perspective. Finally we will discuss vapor intrusion as a tool for environmental site assessment including the proposed new ASTM standard as well PA/NJ environmental programs and recent case studies.

After this IAQ PDC is completed, the host for the meeting (EMSL Laboratories) will be taking smaller groups of interested attendees to lab areas that relate to Indoor Air Quality Testing. (TO-15 Lab, IH Lab, Asbestos, Microbiology, Material Sciences). These will allow for focused tours of a specific lab departments as well as a great opportunity for to see what is involved at the lab for many of analyses needed for IAQ investigations.

We are expecting this PDC to sell out quickly, so be sure to register early to ensure yourself a seat.

Philadelphia Section AIHA November 2013 PDC: "What's New in IAQ?"

Tuesday, November 19th, 2013

EMSL Analytical (200 Route 130 North - Cinnaminson, NJ, 08077)

Agenda

- 8:00 AM Registration/Networking/Continental Breakfast
8:30 AM Welcome/Introduction
8:45 AM Legionella and ASHRAE 188 (Diane Miskowski, MPH)
9:45 AM Analysis of Combustion by-Products in Fire Investigations (Char, Soot, and Ash)
(Eugenia Mirica, Ph.D.)
10:45 AM Break
11:00 AM TO-15 For Indoor Air Assessment and Odor investigation - Sampling And Case Studies (Vince Daliessio, CIH)
12:00 PM Lunch
1:00 PM Indoor Air Quality Investigation Sampling Strategies and Lessons Learned
(Matt Johnson, CIH, CSP)
2:00 PM Vapor Intrusion and Environmental Site Assessment
(Walter H. Hungarter, III, P.E.)
3:00 PM Lab Tours (Optional)

Cost*: Local Section Members: \$75 Cost includes continental breakfast
Non-Members: \$95 and lunch

*- to take advantage of the discounted local section member rate, you must be a current dues-paying member of the Local Section at the time of pre-registration.

Payment for this meeting **MUST** be made at the door on the day of the event. No advance payments will be accepted. Payment must be made via cash or check **ONLY**, payable to "Philadelphia Section AIHA" (no credit cards or PO's will be accepted, and we cannot invoice for the meeting).

To pre-register, please send an email with your name and company affiliation to register@philaaaiha.com before 5 PM on **Tuesday, November 12th**. We expect this event to fill quickly, so early pre-registration is strongly recommended.

Please notify us, when registering, of any dietary restrictions, and we will do our best to accommodate you.

ABIH CM Points: This event may be eligible for ABIH CM credit.
Please see the ABIH web site (www.abih.org) for CM credit criteria.



EMSL Analytical

200 Route 130 North - Cinnaminson, NJ, 08077

800-220-3675

From New Jersey Turnpike or I-295

Take the turnpike to Exit 4 (Route 73) towards Camden/Philadelphia, or I-295 to exit 36 (Rt. 73 North). Take 73 North about 5 miles to the Rt. 130 North exit (the ramp has another ramp that merges on your left so be aware of cars there that come up pretty quick). Stay in the right hand lane on the ramp and get onto Rt.130. Just past the garden center is the driveway for EMSL (it comes up fast, so be ready to turn).

From Route 130 South to Cinnaminson (From Points North of Burlington)

Turn right onto Cinnaminson Avenue, just past the Shop-Rite. Go all the way around the traffic circle and come back to Rt. 130. Cross over Rt. 130 to Church St. Go past the TD bank. Just past the first entrance to the bank is a back entrance road into the bank; turn right into this entrance road. Go past the bank and you will see the EMSL building ahead. Go to the far end on the building and turn right into the large lot.

From Route 130 North to Cinnaminson (From Points South)

After passing Rt. 73, stay in the right hand lane. Just past the garden center is the driveway for EMSL driveway (it comes up fast, so be ready to turn).

From I-95 Philadelphia

Take the Betsy Ross Bridge into New Jersey. Take exit for Rt. 130 North. Stay on 130 North to Cinnaminson. After Rt. 73, stay in the right hand lane. Just past the garden center is the driveway for EMSL (it comes up fast, so be ready to turn).

From West of Philadelphia

Take the Schuylkill Expressway east to the Vine Street Expressway (I-676 East) to I-95 North. Follow I-95 North to the Betsy Ross Bridge (exit 26). Follow the direction above for "From I-95 Philadelphia".



If you accidentally pass the turn for EMSL: Heading North on Route 130, EMSL is just past the Rt. 73 overpass before the Pep Boys Plaza. If you go past the Pep Boys Plaza, you've missed the turn. To get back to EMSL, turn right at the next light (Church St.) and go past the TD Bank. Just past the first entrance to the bank is a back entrance road into the bank. Turn right into this entrance road. Go past the bank, and you will see the EMSL building ahead. Go to the far end on the building and turn right into the large lot.

Legionella and ASHRAE 188: Diane Miskowski, MPH (EMSL Analytical)

What we always thought we knew about Legionella and Legionnaires' Disease is changing. It is no longer considered a rare disease. This presentation will cover the history and changing epidemiology of Legionnaires' Disease as well as the proposed American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) guidelines to prevent and control Legionella. These guidelines are expected to become the Standard of Care for building maintenance and prevention against Legionella transmission that will increase business for Industrial Hygienists. Come and learn how to take advantage of this proposed guideline.

Diane Miskowski, MPH has her Bachelor of Science degree from Rutgers University-Cook College in Environmental Science with a focus on Environmental Microbiology and a Master of Public Health degree in Environmental Health from Johns Hopkins School of Hygiene and Public Health. She has over 35 years experience in the areas of Microbiology, Laboratory Management, and Industrial Hygiene with a focus on aerobiology and exposure to pathogens. Diane has worked as an Industrial Hygienist with OSHA, Temple University, and several consulting firms focusing on workplace exposure to bacterial pathogens and fungi. Currently she is Co-Chair of the Monitoring Committee for the Centers of Disease Control Model Aquatic Health Code Steering Committee to develop microbiological monitoring of pools. She has also presented and published on such topics as *Legionella*, Environmental Mycology, Sampling Strategies for Microbiological Assessments, and Bacteroides.

The Analysis of Combustion-by-Products in Fire Investigations (Char, Soot, and Ash): Eugenia Mirica, Ph.D. (EMSL Analytical)

Typical homeowner policies cover fire damage, residential or wildfire. Successful insurance claims prompted by fire investigations, are usually accompanied by sound analytical results from post-fire testing to evaluate damage claims and /or determine suitable remediation measures. A systematic description of the applicable analytical techniques for characterization and quantification of the combustion-by-products of interests (char, soot/black carbon, and ash) is presented to evaluate each technique's capabilities, limitations, and possible interferences.

Eugenia Mirica, Ph.D. is the Laboratory Manager of the Materials Science Laboratory at EMSL Analytical, Inc. She earned her Ph.D. in Materials Science from Stevens Institute of Technology, Hoboken, NJ. She joined EMSL in 2002. Her 20+ years of expertise in Materials Science involves complex analyses for materials identification, morphological and chemical characterization of materials, fabrication of materials functionalized by design, characterization of particle size and distribution, develop solutions to challenges in manufacturing, product comparison, contamination control, and forensic analysis.

TO-15 and Other Whole-Air Methods For Indoor Air Assessment and Odor investigation - Sampling and Case Studies: Vincent M. Daliessio Jr., CIH (EMSL Analytical)

Volatile organic compounds (VOCs) and fixed gases such as methane and volatile sulfur species are responsible for many indoor environmental complaints. Whole-air sampling methods allow selection of appropriate analyses of air samples for a wide selection of potential problem compounds in indoor air. The inherent sensitivity and broad range of the TO-15 method makes it particularly well-suited to IAQ evaluations, and because it is a whole-air method there is still sample left over for necessary subsequent determinations. A description of the sampling and analytical methodology is presented along with several case studies of successful application of whole-air sampling. Other useful techniques are also discussed.

Vincent M. Daliessio Jr., CIH is Industrial Hygiene Project Manager for EMSL Analytical in Cinnaminson, NJ. He has spent most of the last 20+ years anticipating, recognizing, evaluating, and controlling hazards in indoor and ambient environments. Mr. Daliessio earned his bachelor's degree in environmental science from West Chester University of PA in 1991. Mr. Daliessio earned his Certified Industrial Hygienist (CIH) designation from the American Board of Industrial Hygiene in 1997. Mr. Daliessio has presented training seminars and workshops on topics of Industrial Hygiene, Construction Safety, Hazardous Waste Operations, Radiation Safety, Confined Space Entry, and Process Safety. Mr. Daliessio has designed and implemented comprehensive monitoring and sampling programs for volatile organic, inorganic, and radioactive materials, including exotic and highly hazardous chemicals. He is responsible for advising clients on applications of EPA, NIOSH and OSHA sampling and analysis to occupational and indoor air exposure issues, and assisting in the interpretation of sample results. Currently he is developing tools for evaluation of the Chinese Drywall problem.

Indoor Air Quality Investigation Sampling Strategies and Lessons Learned: Matt Johnson, CIH, CSP (ESIS)

The USEPA estimates that Americans, on average, spend approximately 90 percent of their time indoors. Mr. Johnson will draw on the nationwide experience of industrial hygienists from ESIS Inc.-Health, Safety, and Environmental Services to present case studies from indoor air quality investigations in commercial buildings and discuss trends from a consulting perspective. Mr. Johnson will facilitate a technical discussion among meeting participants to discuss strategies for identifying and resolving indoor air quality issues.

Matt Johnson, CIH, CSP is a consultant for ESIS Inc. –Health, Safety and Environmental Services based out of their Philadelphia office. He conducts indoor air quality assessments as a consultant and is also licensed as a Mold Assessor in the State of Florida. Matt received his Master's Degree in Public Health with a concentration in Industrial Hygiene and Environmental Health Sciences from the University of Michigan.

Vapor Intrusion and Environmental Site Assessment: Walter H. Hungarter, III, P.E. (RT Environmental Services)

Vapor intrusion is receiving further attention throughout the Environmental field with the anticipated promulgation of the updated ASTM standard for Environmental Site Assessment. This presentation will discuss key aspects of the new ASTM standard related to vapor intrusion evaluation. The presentation will focus on the tools which Environmental Professionals may rely on in determining if vapor intrusion is a concern for a property. We will also discuss key aspects of the PA and NJ Department of Environmental Protection programs related to vapor intrusion investigation. Finally, we will discuss several case studies in which Environmental Site Assessments lead to vapor intrusion investigations.

Walter H. Hungarter, III, P.E. is a co-owner of RT Environmental Services, Inc. and has over fourteen (14) years of consulting experience in the environmental services industry to include managing, coordinating, and providing technical assistance in a variety of engineering and construction projects. Walter Hungarter is currently the General Manager of RT Environmental Services, Inc.'s King of Prussia office and is responsible for management of the Engineering, Remediation, and Hydrogeology groups. He is currently involved with various design and environmental assessment projects, contingency planning, pollution prevention, soil and groundwater remediation, indoor air quality and vapor intrusion investigations, PA DEP Act 2, Brownfields redevelopment and waste permitting. Walter holds both a B.S. and M.S. in Chemical Engineering (w/focus in Environmental Engineering) from Widener University (1999) .

**2013 Northeast Regional Industrial Hygiene Conference and Exposition:
“Protecting Workers and Communities in a Changing Environment”**

Friday, December 6th, 2013

Westin Princeton at Forrestal Village (Princeton, NJ)

Presented by the New Jersey Section AIHA

(co-sponsored by the Philadelphia and Metro NY Sections AIHA)

Registration is now open for the 2013 NE Regional IH Conference and Exposition. Speakers will present on subjects such as nanoparticles, fracking, OSHA's new silica standard, OSHA standards update, and Superstorm Sandy.

Professional Development courses will be presented on Thursday, December 5th, on subjects including ethics, environmental management, respiratory protection and mathematical modeling.

For additional information and registration forms, please visit the New Jersey Section AIHA web site at www.njaiha.org.

Philadelphia Section AIHA Scholarship

The Philadelphia Section AIHA has recently endowed the "Philadelphia Section AIHA Scholarship", through the American Industrial Hygiene Foundation (AIHF), to help to further the Foundation's mission to advance the profession by awarding scholarships for students in industrial hygiene and related disciplines.



The Philadelphia Section AIHA is committed to supporting the continued advancement of its members through education and professional development. As a profession, this journey often begins with a degree, either undergraduate or graduate, in one or more of the environmental, occupational health, industrial hygiene and/or safety disciplines. The Philadelphia Section's Executive Board believes that higher education, specializing in these subjects, is essential to strengthen the quality of EHS practitioners and to support the sustained growth of the profession.

The Philadelphia Section AIHA Scholarship will be awarded annually, beginning in 2014, and will be preferentially awarded to students from or studying in the Philadelphia area. The amount of the annual scholarship is expected to be \$1500.

Since 1982, AIHF has distributed \$1,469,776 to 509 students studying industrial hygiene and related disciplines at 53 different schools and universities. These scholarships have enabled talented students to complete their education and have encouraged the most promising scholars to enter or remain in the industrial hygiene profession.

Members of the Philadelphia Section are welcome to contribute to this AIHF scholarship fund. For more information, please visit the AIHF web site at <http://www.aiha.org/about-aiha/AIHFoundation> (when donating, clearly indicate that you wish to apply the funds to the Philadelphia Section AIHA Scholarship Fund).



Philadelphia Section AIHA on Facebook and LinkedIn



You can now follow the Philadelphia Section AIHA on Facebook and LinkedIn! Search for "Philadelphia Section AIHA", and click the "Like" button to receive Facebook updates on meetings, employment and other Local Section information. Search on "American Industrial Hygiene Association, Philadelphia Local Section", to receive information and to connect with other Section members.

PHILADELPHIA SECTION AIHA
PO Box 126 • ROYERSFORD, PA 19468
MAIL@PHILAAIHA.COM