

March 2016



Philadelphia Section AIHA Newsletter

March 2016 Full-Day Professional Development Course:

“Occupational Noise and Hearing Conservation Forum”

Please join us for our March full-day Professional Development Course, “Occupational Noise and Hearing Conservation Forum”, being presented on Friday, March 18th at the Villanova Conference Center (Radnor, PA).

Occupational noise continues to be a major issue in workplaces across the country and the world. Join us for this PDC, and learn more about noise and noise exposure; current trends in noise regulation; real-world experiences of those on the forefront of dealing with occupational noise; and what’s new in technology to address noise exposures.

Our speakers include “the best of the best”: Dennis P. Driscoll (Associates in Acoustics); Dr. Mathias Basner (University of Pennsylvania); and Eric W. Fallon and Lee Scot Ehrlich (3M Corporation).

WE EXPECT THIS PDC TO BE EXTREMELY POPULAR, AND EXPECT THAT AVAILABLE SEATS WILL FILL FAST. We will be requiring pre-registration for ALL attendees; pre-registration will close, without advance notice, once all seats have been filled. No walk-ins will be admitted on the day of the PDC. It is **STRONGLY** recommended that you pre-register as soon as you can in order to ensure your place at the PDC.

Thanks to 3M Corporation for sponsoring this PDC.



Philadelphia Section AIHA

March 2016 Professional Development Course

“Occupational Noise and Hearing Conservation Forum”

Friday, March 18th, 2016

Villanova University Conference Center 601 County Line Road Radnor, PA
(see next page for directions)

Agenda

- 7:30 AM - 8:15 AM Registration/Networking/Continental Breakfast
- 8:15 AM - 8:30 AM Welcome/Announcements
- 8:30 AM - 10:30 AM “Best Practices in Hearing Loss Prevention”:
Dennis P. Driscoll, P.E. (Associates in Acoustics, Inc.)
- 10:30 AM - 10:45 AM Break/Networking Opportunity
- 10:45 AM - 11:45 AM “Auditory and Non-Auditory Effects of Noise on Health”:
Mathias Basner, M.D., Ph.D., M.Sc. (University of Pennsylvania)
- 11:45 AM - 12:45 PM Buffet Lunch
- 12:45 PM - 2:45 PM “Noise Control - Survey Procedures, Data Analysis, and Noise Control Options”:
Dennis P. Driscoll, P.E. (Associates in Acoustics, Inc.)
- 2:45 PM - 3:00 PM Break/Networking Opportunity
- 3:00 PM - 3:45 PM “Hearing Conservation and Electronic Hearing Protection”:
Eric W. Fallon, LTC (ret.), Au.D. (3M Corporation)
- 3:45 PM - 4:15 PM “3M™ E-A-Rfit™ Dual-Ear Validation System – Why Fit Test Hearing Protection?”:
Lee Scot Ehrlich, COHC (3M Corporation)
- 4:15 PM - 4:30 PM Wrap-Up/Adjournment

Cost: Current Philadelphia Section AIHA members: **\$125**
Non-members: **\$150**
(includes continental breakfast, buffet lunch and breaks/snacks)

Payment for this meeting **MUST** be made at the door on the day of the PDC. 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).

Seating for this PDC is limited, and will be filled on a first-come, first-served basis. We expect this event to fill quickly, so early pre-registration is strongly recommended. **ALL persons attending MUST pre-register, and we will not be able to admit ANY walk-in attendees on the day of the PDC.**

To pre-register, please send an email with your **name and company affiliation** to register@philaaiha.com before Noon on **Monday, March 14th**.

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



VILLANOVA
UNIVERSITY
Conference Center

Villanova University Conference Center
601 County Line Road
Radnor, PA 19087

610.523.1776

Using GPS: If you are using a GPS to navigate to the Villanova Conference Center, please use 629 County Line Road, Radnor, PA 19087 as the address, or enter Latitude 40.05 and Longitude -75.35.

From Philadelphia International Airport: When leaving the airport, follow signs for I-95 South. Take I-95 South to Rt. 476 North (Plymouth Meeting.) Follow Rt. 476 North to Exit 13 (St. David's/ Villanova.) At the bottom of the exit ramp, proceed straight at the traffic light onto King of Prussia Road. Follow King of Prussia Road to the 2nd traffic light and turn right onto Matsonford Road. Follow Matsonford Road approximately half a mile and turn right into the Matsonford Gate entrance to The Villanova Conference Center. (marked by blue signs on the stone gates).

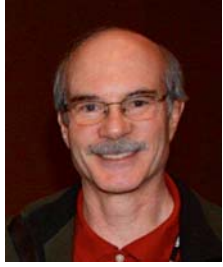
From the North: Take the New Jersey Turnpike to Exit 6 (Pennsylvania Turnpike Exit.) Follow the Pennsylvania Turnpike to Route 476 South towards Philadelphia/Chester, and bear left at the fork. Take 476 South to Exit 13 (St. David's/ Villanova). At the bottom of the exit ramp, turn right onto Rt. 30 East (Lancaster Avenue.) At the 1st traffic light turn left onto King of Prussia Road. Follow King of Prussia Road to the 2nd traffic light turn right onto Matsonford Road. Follow Matsonford Road approximately half a mile and turn right into the Matsonford Gate entrance to The Villanova Conference Center. (marked by blue signs on the stone gates).

From the South: Take I-95 North to Route 476 North. Take Route 476 North to Exit 13 (St. David's/ Villanova.) At the bottom of the exit ramp, proceed straight at the traffic light onto King of Prussia Road. Follow King of Prussia Road to the 2nd traffic light and turn right onto Matsonford Road. Follow Matsonford Road approximately half a mile and turn right into the Matsonford Gate entrance to The Villanova Conference Center. (marked by blue signs on the stone gates).

From the East (Philadelphia/ 30th Street Station): Take I-76 West to Exit 330 (Gulph Mills.) At the bottom of the exit ramp, turn left then turn left again at the stop sign, following signs for Route 320 South. At the traffic light at the intersection for 320 South, turn left. Follow 320 South (South Gulph Road) through two traffic lights, just after you pass the Sunoco Station, turn right before the third traffic light onto Matsonford Road. Proceed on Matsonford Road for half a mile and turn left at the 1st traffic light onto County Line Road. The Conference Center is the second entrance on the right (marked by blue signs on the stone gates).

From the West: Take the Pennsylvania Turnpike to I-76 East towards Philadelphia. Take I-76 East to Exit 330 (Gulph Mills.) At the bottom of the exit ramp, turn right onto Rt. 320 South. Follow 320 South (South Gulph Road) through two traffic lights, just after you pass the Sunoco Station, turn right before the third traffic light onto Matsonford Road. Proceed on Matsonford Road for half a mile and turn left at the 1st traffic light onto County Line Road. The Conference Center is the second entrance on the right (marked by blue signs on the stone gates).

SPEAKERS



Dennis P. Driscoll, P.E. (Associates in Acoustics, Inc.)

Dennis P. Driscoll, P.E. has both a Bachelor of Science and Master of Science degrees from North Carolina State University. Since 1980, his specialties in acoustics include measurement of equipment noise levels and employee noise exposures, the design of engineering controls, and environmental surveys. From 1980-1988 he managed Amoco Corporation's hearing conservation program, and has been an acoustical consultant to industry since 1988.

Toward professional certification, he is a registered Professional Engineer and a Board Certified Noise Control Engineer. He is a Past President of the National Hearing Conservation Association (NHCA), a Fellow Member of the American Industrial Hygiene Association (AIHA), and past Chair of the AIHA Noise Committee. Finally, Dennis is one of the Editors and participating author of *The Noise Manual*, 5th Edition, published by AIHA.

Best Practices in Hearing Loss Prevention

Noise-induced hearing loss (NIHL) is one of the most prevalent occupational diseases. NIHL rarely results from a single exposure, but instead the effects are insidious, occurring gradually over years of unprotected exposure to excessive noise. As a result, affected people seldom recognize they are having a problem until significant damage has occurred. NIHL is permanent and irreversible. Fortunately, work-related NIHL is 100 percent preventable through implementation and maintenance of a comprehensive and effective hearing conservation program. This presentation will examine the latest advances in risk assessment, education and training, effective use of hearing protection and fit testing workers, medical surveillance, program evaluation, and intervention strategies.

Noise Control - Survey Procedures, Data Analysis, and Noise Control Options

The most effective way to prevent occupational noise-induced hearing loss is through effective implementation of engineering noise controls. With some advanced education and training, it is feasible for engineers, safety professionals, and industrial hygienists with a basic knowledge of the fundamentals of noise to develop noise control solutions; establish noise control priorities; identify and select optimum products for retrofitting equipment; work effectively with facility engineers to implement a pro-active approach to noise control; and predict the impact new equipment will on the existing noise levels. This presentation will focus on how to conduct a noise control survey, analyze the data, identify the root-cause of noise, and mitigation options for noise control. Finally, three homeruns in noise control will be presented to help jump-start your noise control program.

SPEAKERS (continued)



Mathias Basner, M.D., Ph.D., M.Sc. (University of Pennsylvania)

Mathias Basner, M.D., Ph.D., M.Sc. is Associate Professor of Sleep and Chronobiology in Psychiatry at the University of Pennsylvania Perelman School of Medicine. Dr. Basner received his degree in Medicine and his Ph.D. in Research from the University of Bochum, Germany and Master of Science in Epidemiology degree from the University of Bielefeld, Germany. Dr. Basner trained at the Institute for Applied Physiology at the University of Bochum and worked as a Research Associate at the German Aerospace Center (DLR), Institute of Aerospace Medicine from 1999 until 2009, where he headed the Flight Physiology Division in 2008 and 2009. In January 2010, Dr. Basner was recruited to the University of Pennsylvania to assume the position of Assistant Professor of Sleep and Chronobiology in Psychiatry.

Dr. Basner's primary research interests concern the effects of sleep loss on neuro-behavioral and cognitive functions, population studies on sleep time and waking activities, the effects of traffic noise on sleep and recuperation, and the effects of long-duration space missions on behavior and cognition. Dr. Basner conducted several large scale laboratory and field studies on the effects of traffic noise on sleep between 1999 and 2008 as PI. For this research, Dr. Basner was awarded the Science Award of the German Aerospace Center in 2007 and the Science Award of the German Academy for Aviation and Travel Medicine in 2010.

Auditory and Non-Auditory Effects of Noise on Health

Noise is pervasive in everyday life and induces both auditory and non-auditory health effects. Noise-induced hearing loss remains the most common occupational disease in the United States, but is also increasingly caused by social noise exposure (e.g., through music players). Simultaneously, evidence on the public health impact of non-auditory effects of environmental noise exposure is growing. According to the World Health Organization (WHO), ca. 1.6 Million healthy life years (DALYs) are lost annually in the western member states of the European Union due to exposure to environmental noise. The majority (>90%) of these effects can be attributed to noise-induced sleep disturbance and community annoyance, but noise may also interfere with communication and lead to cognitive impairment of children. Epidemiological studies increasingly support an association of long-term noise exposure with the incidence of hypertension and cardiovascular disease. The U.S. research on the health effects of transportation noise somewhat lagged behind the efforts of other, especially European, countries. Up-to-date exposure-response relationships are needed for the U.S. to reassess the validity of current noise policy and to better mitigate the effects of transportation noise on health and well-being.

SPEAKERS (continued)



Eric W. Fallon, LTC (ret.), Au.D. (3M Corporation)

Eric W. Fallon, LTC (ret.), Au.D. currently works for 3M Corporation as a Hearing Specialist in Technical Service. Having spent 25 years in the military as an infantryman, artilleryman and audiologist, Eric has managed hearing conservation programs involving as many as 48,000 personnel. He has multiple deployments to both Iraq and Afghanistan, and has seen firsthand the challenges of communicating in noisy environments. He routinely works with the military community in solving tactical communication issues, and is broadening that interest to the industrial workplace. Eric holds a Doctorate degree in Audiology, and a Certificate of Clinical Competency in Audiology with the American Speech-Language and Hearing Association (ASHA), and is a Council for Accreditation in Occupational Hearing Conservation Course (CAOHC) Director.

Hearing Conservation and Electronic Hearing Protection

Hazardous noise exposure and noise-induced hearing loss remains a significant challenge for many workers and military members. Passive hearing protectors can provide adequate protection against the harmful effects of hazardous noise. However, they often introduce a number of challenges that make communicating and listening more difficult. Modern electronic hearing protectors offer a number of advantages to workers who have communication and situational awareness requirements not met by passive protectors. This presentation will combine classroom lecture, describing elements of a hearing conservation program, common noise exposures, along with hands-on exercises with a variety of electronic protectors in the presence of noise.

Thanks to our 2015-2016 Local Section Sponsoring Companies:



Colden Corporation

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SPEAKERS (continued)



Lee Scot Ehrlich, COHC (3M Corporation)

Lee Scot Ehrlich, COHC is a 27-year veteran in the Safety Products Industry, and has been with the 3M Corporation for 11 years. During this time, he has served in a variety of positions in sales, corporate management and training. Throughout the past several years, he has devoted most of his training efforts to hearing conservation and how that critical education impacts our workforce today.

In his current position as the 3M Northeast Region Senior Account Representative-Hearing & Detection Solutions Specialist, Mr. Ehrlich's expertise is providing hearing conservation seminars and hearing/detection solutions to 3M's major end users. He has conducted these educational classes at facilities throughout the Northeast Region.

Mr. Ehrlich is a COHC Certified Hearing Conservation professional, with a Degree in Psychology, and is a Certified 3M™ Detection Specialist and Certified E-A-Rfit™ Technician.

3M™ E-A-Rfit™ Dual-Ear Validation System – Why Fit Test Hearing Protection?

Mr. Ehrlich will discuss and demonstrate the 3M™ E-A-Rfit™ Dual-Ear Validation System, and will share what it will do for both the employer and the employee:

- Train and Motivate Employee to properly fit 3M HPD's
- Selection of the correct 3M HPD's to be used
- Discuss PAR vs. NRR
- Documentation
- Hands on demonstration

Upcoming Philadelphia Section AIHA Meetings

April: Professional Development Course:
“Legalized Marijuana In The Workplace”:
Wednesday, April 20th (location to be announced)

May: No meeting (AIHce 2016 in Baltimore, MD)

June: Social Event (date and location to be announced)



Philadelphia Section AIHA Elections 2016-2017

We are currently looking for candidates to run for Local Section office for the 2016-2017 term. Positions open are President-Elect, Secretary and 2 Directors.



If you are interested in serving, please contact us at elections@philaaaha.com.

Lehigh Valley AIHA Professional Development Conference

The Lehigh Valley Section AIHA will be holding its Spring Professional Development Conference, "Practicality", on Thursday and Friday, April 7th and 8th, 2016 at Cabela's in Hamburg, PA. All of the speakers at this conference will be presenting real solutions to mysterious IH issues, or to routine issues in unusual situations. For more information, visit the Lehigh Valley Section AIHA web site at <https://www.aiha.org/get-involved/LocalSections/LehighValley>.

Philadelphia Section AIHA Scholarship

Thanks to your overwhelming support of the 2015 Northeast Regional Industrial Hygiene Conference and Exposition, the Philadelphia Section AIHA has been able to increase the amount of its Philadelphia Section AIHA Scholarship from \$25,000 to \$50,000.



Applications are currently being accepted for 2016 scholarship awards. For more information, please visit the AIHA web site at www.aiha.org.

AIHce2016

BALTIMORE, MARYLAND + MAY 21-26

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