

The National Environmental Health Association (NEHA)
Presents the

78th
NEHA
AEC

ANNUAL EDUCATIONAL
CONFERENCE & EXHIBITION

IN PARTNERSHIP WITH THE
IFEH 13TH WORLD CONGRESS



Building a World of Innovative Ideas for Environmental Health

LAS VEGAS, NV • JULY 7-10, 2014



Don't miss this unique experience: The NEHA 2014 AEC is being held in collaboration with the International Federation of Environmental Health! This is an unprecedented and exciting opportunity to explore innovative ideas, approaches, and methods with environmental health professionals from all over the world.

Reasons Why

Attending the NEHA AEC Is a Wise Investment for You and Your Organization

1. The NEHA AEC is a premiere training and educational event for you to gain the skills, knowledge, and expertise needed to build capacity for environmental health activities, help solve your environmental health organization's daily and strategic challenges, and make recommendations to help improve your bottom-line results.
2. The NEHA AEC has fantastic session speakers that are environmental health subject matter experts, industry leaders, peers that share common challenges, and this year—speakers will come from all over the world!
3. Your attendance at the NEHA AEC is a solid investment in your organization that will result in immediate and longer-term benefits.
4. You can earn continuing education (CE) credit to maintain your professional credential(s).
5. NEHA is committed to providing you with a training and educational experience that also provides a return on investment (ROI) made for you to attend the AEC.

Need additional reasons why you should attend?

Check out the videos on neha2014aec.org to hear what other environmental health professionals are saying about the NEHA AEC.

AEC SPONSORS & PARTNERS

The National Environmental Health Association would like to recognize the following sponsors for their generous support of the Annual Educational Conference & Exhibition:



In addition, we thank the following partners for their continued efforts to enrich the environmental health profession:

- Association of Pool & Spa Professionals
- Centers for Disease Control and Prevention
- State Onsite Regulators Alliance and Captains of Industry
- Uniformed Services Environmental Health Association
- U.S. Department of Agriculture Food and Nutrition Service
- U.S. Environmental Protection Agency
- U.S. Food and Drug Administration

PRE-CONFERENCE WORKSHOPS

Schedules subject to change.



Industry-Foodborne Illness Investigation Training and Recall Response (I-FITT-RR) Workshop

Monday, July 7, 8:00am – 5:00pm

Do you and your staff know what to do if a foodborne illness or food recall occurs? If not, you need to attend this workshop to get the critical training needed to respond to these issues.

This NEHA/FDA supported workshop is designed to bridge the gap between the retail food industry and local and state regulatory officials in an effort to create stronger working relationships prior to a potential foodborne incident or recall occurring. It will help you

- understand the steps for responding to a potential illness outbreak,
- know what to do when you get customer or product complaints,
- learn what's involved in food recalls and what you need to do, and
- be more familiar with the different agencies that work together to help you get through a food-related crisis.

This workshop is designed for retail food stores and food service establishments (restaurants, grocery stores, casinos, etc.); single unit to large chains; mid-level managers and above; and quality assurance/quality control professionals.

Cost to attend is \$39 per person and space is limited to 30 people.

Springboard to Prevention: The Model Aquatic Health Code, 1st Edition

Monday, July 7, 1:00 – 5:00pm

Over the past six years a group of public health, academic, and industry experts have been working with CDC to develop the first comprehensive public health guidance for swimming pools and aquatic venues in the U.S. This workshop will present the first completed version of the Model Aquatic Health Code (MAHC). The MAHC will be a guidance document that can help local and state authorities update or implement swimming pool and spa codes or standards without having to “recreate the wheel.” The workshop will cover

- common health concerns at aquatic venues,
- key concepts influencing lifeguarding staffing plans,
- secondary disinfection, and
- a science-based operational and communication support toolkit for aquatic and pool programs.

Cost is free with a full or one-day conference registration to the NEHA 2014 AEC.

CREDENTIAL AND CERTIFICATION COURSES AND EXAMS

Schedules subject to change.

Advance your expertise and career potential by obtaining a NEHA credential or certification at the AEC. You may choose to take just a credential/certification course, just an exam, or both a course and an exam while at the NEHA AEC. (Note: Only qualified applicants will be able to sit for an exam.)

Certified Professional of Food Safety (CP-FS)

Friday & Saturday, July 11 and 12, 8:00am – 5:00pm

This two-day refresher course is designed to enhance your preparation for the NEHA CP-FS credential exam. Participants are expected to have prior food safety knowledge and training equal to the eligibility requirements to sit for the CP-FS exam. The course will cover exam content areas as described in the job task analysis. The instructor will be available during and after the course for questions.

Cost: \$325 for members and \$425 for non-members, which includes the CP-FS Study Package (newly revised and updated CP-FS manual, NEHA's Professional Food Manager book, and the 2009 and 2013 FDA Food Codes on CD), a \$145 value.

Exam: Sunday, July 13, 8:00 – 10:30am

Separate application and exam fee required. \$245 member/\$390 non-member. Deadline to apply to take the exam is May 30, 2014.

Certified in Comprehensive Food Safety (CCFS)

Friday & Saturday, July 11 and 12, 8:00am – 5:00pm

NEHA is pleased to offer the introductory course for the Certified in Comprehensive Food Safety (CCFS) credential at the 2014 AEC. The CCFS is a strong core credential for food safety professionals with a primary concern of overseeing the producing, processing, and manufacturing environments of the U.S. food supply. It has been designed to meet the increasing need for highly qualified food safety professionals from both industry and the regulatory community that provide oversight in preventing food safety breaches at U.S. production and manufacturing facilities and abroad. The credential course will cover exam content areas as described in the job task analysis. The course will utilize different learning modalities from critical thinking exercises to small group breakouts and videos.

Cost: \$325 for members and \$425 for non-members, which includes NEHA's brand new CCFS Preparation Guide.

Exam: Sunday, July 13, 8:00 – 10:30am

Separate application and exam fee required. \$245 member/\$390 non-member. Deadline to apply to take the exam is May 30, 2014.

Registered Environmental Health Specialist/ Registered Sanitarian (REHS/RS)

Friday & Saturday, July 11 and 12, 8:00am – 5:00pm

Sunday, July 13, 8:00am – 12:00pm

This two and a half day refresher course is designed to enhance your preparation for the **NEW 2014 NEHA REHS/RS credential exam**.

Participants are expected to have a solid foundation of environmental health knowledge and training equal to the eligibility requirements to sit for the REHS/RS credential exam. This course alone is not enough to pass the REHS/RS credential exam. The class will cover exam content areas as described in the job task analysis. The instructor will be available during and after the course for questions.

Cost: \$499 for members and \$599 for non-members, which includes the newly revised and updated REHS/RS Study Guide, a \$179 value.

Exam: Sunday, July 13 1:00 – 6:00pm

Separate application and exam fee required. \$265 member/\$450 non-member. Deadline to apply to take the exam is May 30, 2014.

The July 13 REHS/RS exam is newly revised. Visit neha.org/credential/rehs2014 for new course outline, updated study guide, and other details.

Certified Pool/Spa Operator® Certification Course (CPO)

Friday & Saturday, July 11 and 12, 8:00 am – 5:00 pm

(includes exam)

This two day course is designed to provide individuals with the basic knowledge, techniques, and skills of pool and spa operations. The CPO® certification program includes pool and spa chemistry, testing, treatment, filtration, maintenance, automatic feeding equipment, and government requirements. The CPO® certification program requires an open book written examination and certification is valid for five years.

Cost: \$300 for members and non-members, which includes the NSPF Pool & Spa Operator Handbook and CPO Certification Fee, a \$115 combined value.

CONTINUING EDUCATION (CE) CREDITS

Earn up to 24 hours of CE contact hours (enough to meet your full two-year NEHA professional credential requirement) by attending and participating in the NEHA AEC. CEs can be fulfilled by attending:

- First Time Attendee Workshop
- Training and Educational Sessions
- The Keynote Session
- Pre-Conference Workshops
- Credential Review Courses
- Educational sessions via the Virtual AEC while they are being shown live during the AEC or as an archive after the AEC is over

INNOVATION & INTERNATIONAL SESSIONS

Building a World of Innovative Ideas for Environmental Health



This year's combined NEHA and IFEH event will offer sessions that help environmental health professionals adapt to and excel in the ever-changing economic, professional, and global landscape by learning the best tips, tricks, and tweaks needed to thrive in their positions.

CHILDREN'S EH

Keeping Children Safe and Healthy Through Comprehensive Child Care Center Regulations

Are your children protected against secondhand smoke, scalding hot water, and shigellosis outbreaks in the child care center where they spend a great deal of time? Are they assured of receiving healthy meals and regular outdoor exercise in a safe playground? Learn in this session how one county developed environmental health regulations to ensure protections against these and other environmental hazards and how you can do the same in your jurisdiction.

EMERGENCY PREPAREDNESS & RESPONSE

Environmental Health and Disaster Management: An International Effort for Training and Awareness

Globally, environmental health professionals have a critical role in mitigating public health risks before and after disasters. To build this capacity, IFEH, CDC, and NEHA have collaborated to develop the course "Environmental Health and Disaster Management," which was heavily guided by CDC's successful Environmental Health Training in Emergency Response course. Attend this session to see how this type of course promotes the profession and ensures that professionals are adequately equipped to prepare, respond, recover, and mitigate the adverse impacts of disasters internationally.

Incorporating Emergency Preparedness into Retail Food Facility Inspections

What can you do to make food facilities strong and capable of moving forward after a disaster? This session will describe how to efficiently address emergency preparedness with operators during routine food facility inspections and will provide resources for your reference. This approach provides an opportunity for the regulator and operator to partner not only to increase chances of the facility's success after a disaster, but to reduce time spent on post-disaster assessment, and protect the public's health at the same time.

Protecting the Living Environment of Survivors in Congregate Shelters During Disasters: Is Public Health Ready?

Shelters play an important role in providing safety and basic human needs for survival during disaster situations and are an important priority for public health agencies responding to any disaster. This session will describe the current knowledge and use of assessments as well as the importance and benefits of using them as a data collection tool for decision making and occupant protection. Attend this session to see how to implement assessment procedures and tools in your jurisdiction's disaster response.

Disaster Management Challenges From Non-Communicable Diseases: Lessons Learned and Questions Going Forward

Due to population aging and an increase in longevity, there has been a disease transition to non-communicable diseases (NCDs), which are the challenge for the 21st century. This is a new concept for environmental health and disaster management to explore, as the focus has traditionally been on communicable diseases in the disaster setting. Today, damages to public health infrastructure such as food, water, and sanitation place the vulnerable population with NCDs at great



risk. Attend this group exercise to discuss and debate possible approaches to and roles environmental health professionals play in mitigating the risks of disaster.

ENVIRONMENTAL JUSTICE

101 Ways to Improve Health Equity

IFEH works to disseminate knowledge concerning environmental health and promote cooperation between countries where environmental health issues are transboundary. IFEH recently adopted Policy 10, based on the WHO report "Closing the Gap in a Generation," which aims to improve health equity through action on the social determinants of health. The session will showcase how colleagues around the world are making a difference! What problem are they addressing? What actions have been taken? What outcomes are being delivered? And, how can YOU make a difference where YOU are?

FOOD PROTECTION AND DEFENSE

Foods Without Frontiers

"Farm to Fork" is a great slogan, but how do we really ensure food safety when the farm is in one country, processing in another, and consumers in a third, fourth, or more countries? Using the recent international food safety recall of Karicare Whey Protein Concentrate for a contaminated ingredient, you'll see that simply knowing about an adverse event in your country is no longer enough. This session will identify gaps in international incident notification systems such that attendees will be equipped to act to fill those gaps and respond promptly and efficiently to the next incident that arrives at the shipping dock.

Focusing Disney Magic on Food Safety

This Learning Lab will demonstrate how the latest Disney technologies and smart temperature probes are being used in food service food safety and impacting inspections. When you put your hands on these technologies in this session, you'll have a FASTPASS for food safety. Bypass the complexity. Go straight to the critical control points. Take your process for a ride. And when it's all over, you get a digital "picture" for your records. This session will give you the skills and confidence you need to conduct inspections or audits in facilities using these types of technologies.

How to Deliver Effective Food Safety Programs on a Tight Budget

Due to the worldwide economic downturn and its effect on government spending, existing UK delivery models for food hygiene inspections are now in need of review. This session will quantifiably describe the economic and programmatic challenges agencies are facing using Wales as the example. The session will examine the traditional food hygiene inspection program model and then evaluate contemporary adaptive approaches that are more innovative, imaginative, and targeted. These techniques may help your agency provide a quality service while protecting public health.

Catch Me If You Can—Misbranding, Adulterating, and Counterfeiting Foods: A National/International Food Incident Workshop

Recent food fraud incidents involving melamine, horse meat, and rat meat necessitate that local, national, and international government and industry stakeholders have knowledge of response when an incident occurs in their jurisdictions. The newest FDA Food Related Emergency Exercise Bundle (FREE-B) exercise explores such a food fraud scenario. When faced with this situation, what are the risks? Who gets involved? What are the handoffs to different national or international government agencies? This workshop includes live participation of international stakeholders via a web platform. In addition, related multi-lingual educational materials will provide attendees with immediately applicable resources for the stakeholders in their own jurisdictions.

HEALTHY HOMES AND COMMUNITIES

Clever Software Tools That Advance Health in Homes

Get an introduction to the Housing Health and Safety Rating System (HHSRS) and English housing enforcement work. Then try two useful software tools to help with using HHSRS. Hunt for hazards in a virtual home, a tool which can be taken away for free. Then try an online tool to justify budgets by calculating the cost savings from using the HHSRS. Bring your laptops and tablets!

Implementing a Community-Based Child Care Program Utilizing the Healthy Homes Rating System

This session will review a case study of the expansion of the local healthy homes program to home-based and small child

care providers. A community organization created a new healthy child care assessment program based on the Healthy Homes Rating System. The program rates 29 environmental, health, and safety hazards for their potential to harm residents and enables those risks to be mitigated. The local fire department even accepts the assessment as equivalent to a fire inspection. Attend this session to learn how a program like this can benefit your community.

LAND USE PLANNING & DESIGN

Outside-the-Box Advocacy: Organizing Public Health's Engagement in Built Environment Advocacy

The buzz phrase "Health in All Policies" has almost become ubiquitous, especially in public health's efforts to come to the land use planning and infrastructure design discussion. Tulsa Health Department will share their project's success using community engagement and collaborative relationships. They'll provide you with some innovative techniques to use when resources are limited to educate and advocate for health with decision makers, the public, and your own agency.

Annoyance and Perception of Noise in Rural and Urban Areas of France

Traffic, urban, and occupational noises are now described as major environmental problems, which can greatly interfere with health. This session will discuss the results of a survey conducted to identify the perception of noise pollution in occupational and domestic environments. Attend this presentation to identify possible interventions and recommendations that may alleviate health risks from noise pollution.

NEHA and SORA are again partnering to bring together onsite regulators and industry leaders for decentralized and onsite wastewater treatment. The sessions offered by the NEHA and SORA partnership will focus on topics such as sustainability, reuse, reciprocity, and other emerging issues.

ONSITE WASTEWATER

Sustainability Is the Name of the Game: EPA's Decentralized Wastewater Program Efforts

There are small and underserved rural communities across the U.S. in need of first-time and adequate access to water and

wastewater infrastructure. Through joint efforts with many government agencies, EPA has developed programs and tools such as workshops in a box to assist these communities in creating sustainable solutions that will meet their current and future needs. Attend this session to gain knowledge and resources to implement programs in your community even on a shrinking budget.

Currumbin—A Community Designed Around Environmental Sustainability and Wastewater Reuse in Queensland, Australia (NEHA/SORA session)

On the Gold Coast of Queensland, Australia, EcoVillage at Currumbin is a community focused on implementing and teaching sustainable development principles. Wastewater systems were chosen that created the lowest total impact to the environment in its manufacturing, construction, and operation. After treatment followed by UV and chlorine disinfection, the wastewater from 144 homes and numerous community facilities is recirculated to homes for reuse via toilet flushing, car washing, garden watering, and landscape irrigation. Attend this session to see how these award-winning techniques could make a difference in your community.

PATHOGENS AND OUTBREAKS

Who's Missing From the Table? Building Partnerships With the Medical Community in Foodborne Illness Surveillance

Detecting increases in self-reported foodborne illnesses and low report rates by medical providers, Kern County Environmental Health implemented an innovative approach to enhance collaboration between environmental health, public health, and the medical community. The execution of the Foodborne Illness Surveillance Guidance Training for Medical Professionals became a successful method in communicating with the medical community and improving foodborne illness surveillance. This presentation will provide an overview of the workshop design, challenges, results, and next steps that you may want to apply within your community.

Restroom Infection Control: Chlorhexidine, the Final Frontier

Pioneering, award-winning work at the Queen Elizabeth Hospital, UK, has demonstrated the remarkable residual antimicrobial activity of chlorhexidine on surfaces, thereby maintaining their continuous cleanliness over time. In this school-setting trial, the presenters will

demonstrate significant improvements in continuous cleanliness of restroom door handles. Attend this session and join in the discussion of the possible benefits of applying this simple, inexpensive technique beyond clinical and office environments.

RECREATIONAL WATER

Rethinking Recreational Water Monitoring: Can Predictive Modeling Increase Public Health Outcomes?

Canadian recreational water safety practices are put into an international context by comparing them with the EPA and WHO guidelines. A review of the use of a geometric mean will identify the limitations of using bacteriology in general, and the geometric mean of *E. coli* in particular, as the basis of recreational water safety decision-making, and determine the most appropriate, evidence-based values of the geometric mean for recreational water to be considered safe. Use these results in your organization to create a comprehensive risk assessment strategy, forecasting models, and risk management approaches to posting recreational water safety.

Developing a Drowning Prevention Awareness Program That Works for You (NEHA/APSP session)

The Florida Department of Health, Brevard County, won the 2013 Dr. Neil Lowry Award for their very successful drowning prevention program. This presentation will illustrate the importance of public outreach and demonstrate how to fund your program with grant writing and develop novel partnerships. Could implementing these key elements save lives in your community?

VECTOR CONTROL & ZOOONOTIC DISEASES

Get Results! Tools for Managing a Public Health Nuisance Program (Sponsored by Orkin)

The housing crisis and diminished mental health services have resulted in more complaints and public health nuisance inspections at Franklin County Public Health. See how simple triage and scoring tools were used to categorize and prioritize complaints to get results and gain recognition in the community. In this session, you'll be able to evaluate this approach and test these tools as a way for your department to manage public health nuisances with limited funds and staff.

Integrated Approach to Malaria Prevention in Uganda: Experiences From a Pilot Project

This pilot project promoted an integrated approach to the prevention of malaria at the household level in two rural communities where malaria is the leading cause of morbidity and mortality. This project conducted a baseline survey on malaria prevention knowledge and practices, trained community health workers, increased awareness of the population of an integrated approach to malaria prevention, and established study demonstration sites. The integrated approach to malaria prevention was well received by the study communities and work continues to assess health benefits and community perceptions of this approach. Available data will be shared with attendees during the session.

WATER QUALITY

Tools and Data for Identifying Areas With a High Potential for Private Well Contamination

In many areas there are concerns about private well water quality, but little data on levels of contaminants such as nitrate, arsenic, and uranium. We have compiled extensive groundwater quality data from national, state, and local sources and generated maps spanning the U.S. showing where there is the greatest chance of elevated levels of these contaminants. In this session, you will be shown how to access and interpret these maps and data for application in your jurisdiction.

Attend the Awards Ceremony on July 8 to find out who wins the NEHA Environmental Health Innovation Award.

In its second year, this award is presented to an individual, team, or organization for an innovative contribution in the form of a new idea, practice, or product that has had a positive impact on improving the environment/public health and the quality of life. Change that promotes or improves the environment is the foundation of this award.

MORE SESSIONS BY TRACK

Acquire comprehensive information from subject matter experts and industry leaders, and learn from your peers as you share.

CHILDREN'S EH

- Lessons Learned About Environmental Health in the World of Child Care
- Beating the Odds: Eliminating Lead Exposure for Kids in the Nation's Capital
- Association Between Risk of Birth Defects and Arsenic Concentrations in Soils of China

EMERGENCY PREPAREDNESS & RESPONSE

- Hurricane Sandy: A Complex Environmental Health Communications Challenge
- Enhancing Planning and Preparedness: Development of an E-Learning Tool for Chemical Incidents
- Public Health Preparedness: Examination of Legal Language Authorizing Responses to Radiological Incidents
- Destructive Wildfires and Devastating Floods: EH's Response and Role in Recovery
- To Tweet or Not To Tweet: Leveraging Social Media for Environmental Health

FOOD PROTECTION AND DEFENSE

- Food Safety Focus Series I: A National Collaborative Effort to Support the FDA National Retail Food Regulatory Program Standards (*sponsored by Prometric and Skillsoft*)
- Food Safety Focus Series II: Local Experiences with the FDA Retail Food Program Standards (*sponsored by Prometric and Skillsoft*)
- Food Safety Apps Can Improve Food Safety Standards
- Applying a Behavior Change Model Proven to be Effective in Child Care Settings to Licensed Food Establishments
- Investigation of a Large Foodborne Illness Outbreak in Toronto, Canada

- Southern Nevada Health District THINK RISK Initiative
- FDA's Oral Culture Learner Project: Helping Food Employees Understand the Importance of Food Safety
- The Great Food Truck Race...for Food Safety
- Flip the Fear: How the FDA, ADA, and Lesley University Changed the Face of Public Health and Food Safety in 2013
- Nanotechnology Implications for Food and Food Safety

HAZARDOUS MATERIALS AND TOXIC SUBSTANCES

- Burning to Know: Neighborhood Mercury Exposure From Crematoriums
- Lead Poisoning Outbreak Resulting From Construction and Renovation at an Indoor Firing Range
- Smoke and Ash Deconstructed—Not Just Particles

HEALTHY HOMES AND COMMUNITIES

- Hazard Assessment in Houses and Some Clever Software Tools
- Multi-Agency Approach in the Closure of a Motel
- Fungal Bioburden in Foreclosed Homes Using ERMIsm as an Indicator
- The Public Health Challenge of Hoarding
- Pesticide Usage and Pesticide Dust Concentrations in Residences of Asthmatic Children Living in Subsidized Housing in Philadelphia

LAND USE DESIGN & PLANNING

- Developing Policy to Address Near Roadway Pollution Health Hazards
- Annoyance and Perception of Noise in Rural and Urban Areas of France

- Outside-the-Box Advocacy: Organizing Public Health's Engagement in Built Environment Advocacy
- Levels of Heavy Metals in Traffic-Related Particulate Matter Along a Major Motorway in Nigeria
- Keys to Facilitating Healthy Cities Partnership in Indonesia: A Case Study
- Air Quality Assessments Using Satellite Derived High Resolution Aerosol Optical Depth (AOD) Retrievals

LEADERSHIP/MANAGEMENT

- Building Agency Capacity
- Leadership Development: Key Considerations for Mentoring Millennials
- Characterization of Competencies Required for Successful Environmental Health Work
- American Academy of Sanitarians Presents an Environmental Health Master Class
- Building an Environmental Health Program of Excellence in a Time of Austerity
- Organizational Culture Change: A Local Experience of Going From Fair to Great
- Implications of the Affordable Care Act on Environmental Health

ONSITE WASTEWATER

- Transfer of Property Requirements: Training, Certification, and Politics
- Grey Water and Water Reuse in the Southwest
- Market Impacts of Product Testing, Product Acceptance, and Regulations (NEHA/SORA session)
- Onsite Wastewater Treatment and the Value of Independent Certification
- The Proliferation of Blue-Green Algae: Context, Challenges, and Innovative Solutions
- Realtors and Environmental Health, Partners in a Successful Mandatory Point-of-Sale Program

Be a voice.

You Spoke, We Listened...

NEHA used your participation in our 2014 Abstracts Blog and your responses to our conference surveys as guidance in choosing sessions and developing the training and education program. THANK YOU for giving us feedback so we can advance the proficiency of the environmental health profession AND help create bottom line improvements for your organization!

FROM THE BLOG

- The Great Food Truck Race...for Food Safety
- Restroom Infection Control: Chlorhexidine, the Final Frontier
- Arsenic in Iowa's Groundwater—The Unknown Threat: A Pilot Study in Cerro Gordo County
- Triggers for Change in the Safest Place on Earth
- Disaster Management Challenges From Non-Communicable Diseases: Lessons Learned and Questions Going Forward

FROM CONFERENCE SURVEYS

- Inspection technology and use of apps in EH:
 - » Help! Everyone Wants My Data: A Look at Streamlining Data Collection for Environmental Health Programs
 - » Enhancing Planning and Preparedness: Development of an E-Learning Tool for Chemical Incidents
 - » Focusing Disney Magic on Food Safety
 - » Food Safety Apps Can Improve Food Safety Standards
 - » Using the Lean Program to Improve Efficiency in Environmental Health Services
- The Leadership/Management track will address your concerns related to:
 - » The future of the EH practice
 - » Demonstrating program effectiveness
 - » Value and return on investment for environmental health programs
 - » Building agency capacity under reduced budgets and staffing collaborations/programs
- Hoarding, bed bugs, and rats—we've got them covered in our Vector Control & Zoonotic Diseases and Healthy Homes & Communities tracks!
- Evaluation of the built environment and its link to public health—check out sessions in the Land Use Planning & Design track!

PATHOGENS AND OUTBREAKS

- Don't Gamble With Norovirus: Prevention, Control, and Containment of a Norovirus Outbreak in a Casino
- Issues and Challenges: Investigation of a Foodborne Outbreak in Jamaica
- Investigation of a Foodborne Illness Outbreak in Toronto, Canada

RECREATIONAL WATERS

- Chlorine Resistant Pathogen Treatment Strategies for Recreational Water (NEHA/APSP session)
- Gage-Bidwell Law of Purification: Old Errors Corrected and New Relevance Identified (NEHA/APSP session)
- Developing a Drowning Prevention Awareness Program That Works for You (NEHA/APSP session)
- Hot Tub and Spa Inspection Data: The Power to Prevent Illness and Injury
- Pool and Spa Safety Act Program: Implementation and Findings in Seattle and King County

SCHOOLS/INSTITUTIONS

- Food-Safe Schools: Food Safety Beyond the Cafeteria
- School Indoor Air Quality Improvement: Lessons from Multnomah County, Oregon
- Correcting Corrections: Surviving Jail Inspections and High Risk Inmate Activities

SUSTAINABILITY/CLIMATE CHANGE

- Climate Change and Sustainability: Navigation of Governance, Energy, and Built Environment Opportunities
- Triggers for Change in the Safest Place on Earth
- International Perspectives on Climate Change and the Role of Environmental Health
- Climate Change Impacts and Options: Case Studies in the Northwest Arctic Borough, Alaska

TECHNOLOGY AND EH

- Help! Everyone Wants My Data: A Look at Streamlining Data Collection for Environmental Health Programs
- Building Agency Capacity
- Environmental Public Health Tracking: Developing Nationally-Consistent Community Environmental Health Profiles
- Public Health Mythbusters
- Using the Lean Program to Improve Efficiency in Environmental Health Services
- Implementation of GIS for Research on Neural Tube Defects in China
- Pick a Favorite Technology To Help You Improve Inspection-Based Hand Washing

VECTOR CONTROL & ZOOBOTIC DISEASES (SPONSORED BY ORKIN)

- University Integrated Pest Management Program Success With GIS Mapping Software
- Integrated Approach to Malaria Prevention in Uganda: Experiences From a Pilot Project
- Hantavirus in Northern Arizona: Investigation and Response
- Stamping Out Bed Bugs: An Organization and Systems Approach in Action
- New Urban Rat Control Program Development in the Post Recessionary Environment
- Using Heat to Treat for Bed Bugs in a Homeless Shelter
- Get Results! Tools for Managing a Public Health Nuisance Program

WATER QUALITY

- Tools and Data for Identifying Areas With a High Potential for Private Well Contamination
- Using a Rapid Bacteria Screening Method to Assess *Legionella* Risk
- Containing an Outbreak of Cryptosporidiosis in Galway: The Role of the Environmental Health Service
- An Innovative Response to Preventing *Legionellosis* Outbreaks
- Arsenic in Iowa's Groundwater—The Unknown Threat: A Pilot Study in Cerro Gordo County

NEHA 2014 AEC SCHEDULE AT-A-GLANCE

Schedule is subject to change.

SAT // July 5	SUN // July 6	MON // July 7	TUE // July 8	WED // July 9	THU // July 10	FRI // July 11	SAT // July 12	SUN // July 13
EHAC Meeting	EHAC Meeting	NEHA Board of Directors Meeting	Educational Sessions	Exhibition Open	Town Hall Assembly	Credential Review & Certification Courses	Credential Review & Certification Courses	Credential Review Courses & Exams
IFEH Council Meeting	International Environmental Health Faculty Forum Business Meeting	Pre-Conference Workshops: • Industry-Foodborne Illness Investigation Training and Recall Response Workshop • Model Aquatic Health Code Workshop • NEHA/SORA Onsite Wastewater Field Trip	"Thank You Luncheon" for guests staying at the AEC designated hotel for two or more nights	Poster Session	Educational Sessions	• CCFS Course • CP-FS Course • REHS Course • CPO Course	• CCFS Course • CP-FS Course • REHS Course • CPO Course & Exam	• CCFS Exam • CP-FS Exam • REHS Course • REHS Exam
	International Environmental Health Faculty Forum & EHAC Joint Meeting	IFEH Regional Meetings AEHAP Annual Meeting	Awards Ceremony & Keynote Address	Silent Auction	President's Banquet			
	IFEH AGM Meeting	Community Volunteer Event	Exhibition Grand Opening & Party	Student Research Presentations				
		First Time Attendee Workshop	Poster Session	Networking Luncheon (Sponsored by American Public University)				
		Annual UL Event		Educational Sessions				

AEHAP = Association of Environmental Health Academic Programs
EHAC = National Environmental Health Science & Protection Accreditation Council

IFEH = International Federation of Environmental Health
SORA = State Onsite Regulators Alliance

Stay at the designated AEC hotel—The Cosmopolitan of Las Vegas—for two or more nights and attend a free "Thank You Luncheon" on Tuesday, July 8. Certain terms and conditions apply. See Web site for details.



KEYNOTE SPEAKER

The National Environmental Health Association is pleased to announce that Mark Keim, MD, with the Centers for Disease Control and Prevention, will address attendees of the 78th Annual Educational Conference (AEC) & Exhibition as the keynote speaker.

With the expanded international audience at this year's AEC, you'll want to hear Dr. Keim's perspective on emerging and contemporary issues, including the far-reaching health effects of global climate change.

Register today for the 2014 AEC so you don't miss this opportunity!



The keynote speaker is sponsored by NSF International.

Check out the sessions in the Sustainability/Climate Change Track for more on this topic!

The National Environmental Health Association is pleased to announce that Mark Keim, MD, Associate Director for Science in the Office for Environmental Health Emergencies, National Center for Environmental Health/Agency for Toxic Substances and Disease Registry at the Centers for Disease Control and Prevention (CDC), will be the keynote speaker for this combined IFEH and NEHA environmental health event.

Dr. Keim will be speaking on emerging and contemporary issues, including the far-reaching health effects of global climate change.

In addition to his current role, Dr. Keim has spent many years working for the CDC in many capacities including Acting Associate Director in the Office of Terrorism Preparedness and Emergency Response, Medical Officer and Team Leader at the International Emergency and Refugee Health Branch, and Acting Associate Director for Science in the Division of Emergency and Environmental Health Services. He is also an adjunct faculty member at the Rollins School of Public Health at Emory University.

Dr. Keim has provided consultation for the management of dozens of disasters involving the health of literally millions of people throughout the world. Dr. Keim is the author of several hundred scientific presentations, 40 journal publications, and 13 book chapters.

Dr. Keim received numerous awards for his work in CDC's emergency operations during the World Trade Center, anthrax letter, and Hurricane Katrina emergencies, as well as for leading the U.S. health sector response after the Indian Ocean tsunami.

He has been a member of the White House Subcommittee for Disaster Reduction since 2006. He served as a review editor for the United Nations Intergovernmental Panel on Climate Change from 2009 to 2011.

NETWORKING

Strengthen your business and personal relationships and build a network of colleagues—in the U.S. and across the world—that you can call on at anytime!

- Before You Arrive: Send meeting requests through the networking features of the **Virtual AEC—Your Meeting Companion**
- Monday: Mingle with peers and give back to the community hosting the AEC by signing up for the **Community Volunteer Event**. Reunite with friends at the always-exciting **UL Event** in the evening!
- Tuesday: Connect with exhibitors at the **Exhibition Grand Opening & Party**
- Wednesday: See exhibitors you missed the day before and chat with colleagues during the **Networking Luncheon**
- Thursday: Collaborate with other professionals at the **Town Hall Assembly**. Reconnect with everyone you have met during the AEC at the **President’s Banquet**
- After the AEC: Stay connected to your friends and contacts after leaving the conference through the **AEC and NEHA social media channels**

Annual UL Event



A trip to Las Vegas would not be complete without enjoying its world-class entertainment.

Monday, July 7, from 6:30–10:30pm

Join us for the Annual UL Event and get ready for an evening with one of the best entertainers in the industry today. As a successful headliner on the Las Vegas Strip, Terry Fator captures the hearts and funny bones of audiences from around the world with **Terry Fator: The VOICE of Entertainment**. Backed by a live band, Fator wows audiences nightly with singing, comedy, and unparalleled celebrity impressions. The “America’s Got Talent” winner brings to life a hilarious range of characters including Winston, the

impersonating turtle; Emma Taylor, the little girl with the big voice; and Monty Carlo, the lounge singer. Enjoy comedic banter and amazing vocal impressions of musical superstars such as Garth Brooks, Dean Martin, Aretha Franklin, Lady Gaga, and more. **Terry Fator: The VOICE of Entertainment** is a one-of-a-kind experience, only at The Mirage.

The UL Event is not included in the registration pricing for the AEC. Price is \$65 per ticket for the first 175 tickets that are purchased and \$75 for each ticket thereafter. To register for this event, visit neha2014aec.org/register.

4th Annual Community Volunteer Event



For more details and to sign up as a volunteer, visit neha2014aec.org.

SORTING SOAPS TO CLEAN THE WORLD

Monday, July 7, from 1:00–3:00pm

The community volunteer event is designed to give back to the AEC host city community and enhance NEHA’s “green” efforts to reduce the footprint of the NEHA 2014 AEC and IFEH 13th World Congress.

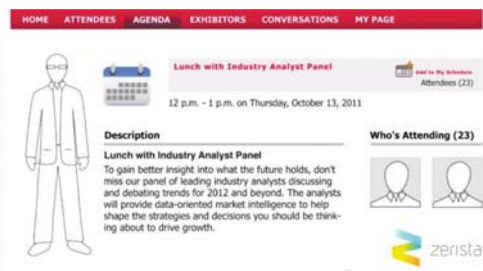
This year’s community volunteer activity helps reclaim and repurpose waste from the hospitality industry and provides for people in need. Clean the World is a non-profit organization that collects and redistributes personal care items and gives them to domestic homeless shelters and impoverished countries suffering from high death rates due to hygiene-related illnesses. Since its inception in 2009, Clean the World

has put over nine million soap bars and two million pounds of bottled amenities back into human use, simultaneously diverting over 600 tons of waste from landfills.

Network with colleagues and contribute to a local and global cause while participating in volunteer activities which may include sorting amenities by content and package type, cleaning and boxing amenities, assembling hygiene kits, taking inventory, or writing educational and inspirational notes to recipients.

When you sign up, please be sure to read and be prepared with required attire and waiver. Join your fellow environmental health colleagues at Clean the World’s Las Vegas Recycling Operations Center and make a difference locally and internationally!

THE VIRTUAL EXPERIENCE



Enhance your learning experience whether you attend the AEC or participate online from your home or office via the Internet.



Three Ways to Use The Virtual AEC

1) Virtual AEC: Your Meeting Companion

Make the most of your time by planning your AEC schedule, events, meetings, and more! Great for both attendees and those participating remotely via the live broadcast.

2) Virtual AEC: Live Broadcast

For those who are *not* able to attend the AEC in person, view some of the sessions live as they occur! You, too, can schedule your sessions and chat with live and remote attendees, speakers, etc.

3) Virtual AEC: Continuing Education Resource

After the conference, view sessions for up to one year to earn continuing education credits.

Wireless connections for meeting rooms sponsored by HealthSpace USA Inc.

How Can the Virtual AEC Help You?

- **Stay connected and informed:** View interactive maps, session descriptions, speakers, exhibitors, and attendee profiles. Get the latest NEHA 2014 AEC news and announcements via live social feeds sent directly to you.
- **Create your customized conference schedule:** Add sessions and events you want to attend to your schedule. Then export the schedule to your Outlook or other electronic calendar.
- **Network and converse:** “Meet” other attendees, speakers, and exhibitors via the chat forums. Request meeting connections, swap digital business cards, or connect digitally with others in your area of specialty or geographic region.
- **Learn:** Attend some of the educational sessions as they occur via live streaming broadcast. Use the chat feature to ask questions, post comments, and communicate with speakers and other attendees. Discover the latest innovative products and services shared by AEC exhibitors. After the conference, you can still access the educational sessions, view presentation slides, and obtain supplemental material through the continuing education resource.

CONFERENCE REGISTRATION

Registration information is available at neha2014aec.org. For personal assistance, contact Customer Service toll free at 866.956.2258 (303.756.9090 local), extension 0.

	Member	Non-Member*
Full Conference Registration	\$575	\$735
One Day Registration	\$310	\$365
Student/Retired Registration	\$155	\$230

***Special Savings!** Join NEHA for \$95 and get the AEC for \$575. Combined that is a **\$65 savings** over the non-member AEC registration rate. Plus, you get a whole year of NEHA member benefits!

This registration pricing is good until May 30, 2014. Registration prices will increase after this date.

LAS VEGAS, NEVADA

The Perfect Destination to Mix Business and Pleasure



When you come to Las Vegas, Nevada, you'll enjoy access to one of the most exciting and entertaining cities in the world, so it's no secret why the city welcomes millions of tourists each year. Whether you're looking for an exciting night life, live entertainment, or a place to find some peace and quiet, Las Vegas has everything you could ever want.

Take a walk down the Vegas Strip and try your luck at one of the many casinos that have made the city famous. And with hundreds of different restaurants, the city can cater to every taste and craving.

Las Vegas also plays host to almost any type of live entertainment you can imagine. You can see live comedy, stage shows, and concerts, or take in one of the many

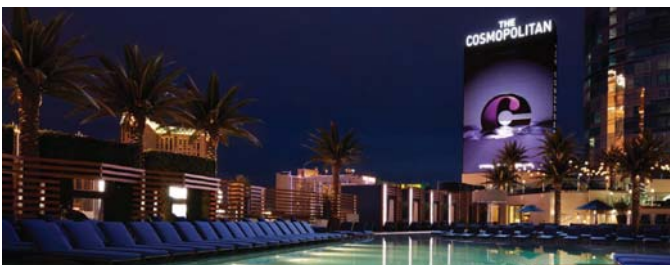
permanent fixtures of the Las Vegas entertainment industry like the Blue Man Group, Cirque du Soleil, or Penn and Teller.

For people looking to relax and unwind, Las Vegas has you covered. Treat yourself to a day at one of the city's many spas and resorts, or get out of the city and spend some time on the golf courses.

There's a reason they call Las Vegas the entertainment capital of the world. Whatever your idea of a good time is, you're almost sure to find it in Las Vegas.

neha2014aec.org

Follow NEHA on:  Twitter  Facebook  LinkedIn



NEHA AEC Venue & Hotel

The Cosmopolitan of Las Vegas

3708 Las Vegas Boulevard South, Las Vegas, NV 89109

Discounted room rates are now available—\$139 USD/night plus taxes and fees.

Visit neha2014aec.org/hotel



National Environmental Health Association
720 S. Colorado Blvd., Suite 1000-N,
Denver, CO 80246-1926

NON-PROFIT ORG.
U.S. POSTAGE
PAID
DENVER, CO
PERMIT NO. 618

Customize Your Learning Experience

The NEHA AEC offers so many different facets for you to choose from to customize your own learning experience. From the multitude of environmental health topics discussed to the different learning environments of the Lecture and Learning Lab to the option to attend in-person or virtually, the NEHA AEC offers a fresh, progressive, and modern approach to training and education.

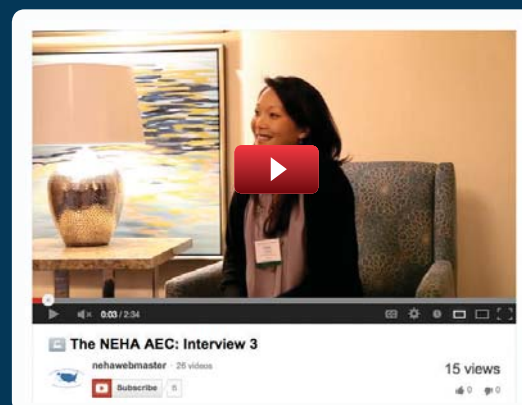
- TRAINING** *Productivity. Efficiency. Effectiveness.*
- EDUCATION** *Knowledge. Understanding. Expertise.*
- NETWORKING** *Friends. Contacts. Connections.*
- POLICY INVOLVEMENT** *Voice. Collaboration. Influence.*
- ADVANCEMENT** *Careers. Aspirations. Respect.*
- MOTIVATION AND INSPIRATION** *Perspective. Leadership. Excellence.*

WATCH

Join us online to learn what environmental health professionals are saying about the NEHA AEC.

NEHA AEC is so much more than a conference. It is the nexus for environmental health training, education, networking, and advancement. It is the event environmental health professionals attend to acquire practical and real-world information and expertise. It is the event from which environmental health professionals leave, trained, motivated, inspired, and empowered to further advance their organizations and themselves.

neha2014aec.org



Please help us preserve our planet. If you choose not to keep this brochure, please place it in a recycling bin. Thank you. Designed by Cognition Studio | Seattle, WA | cognitionstudio.com