

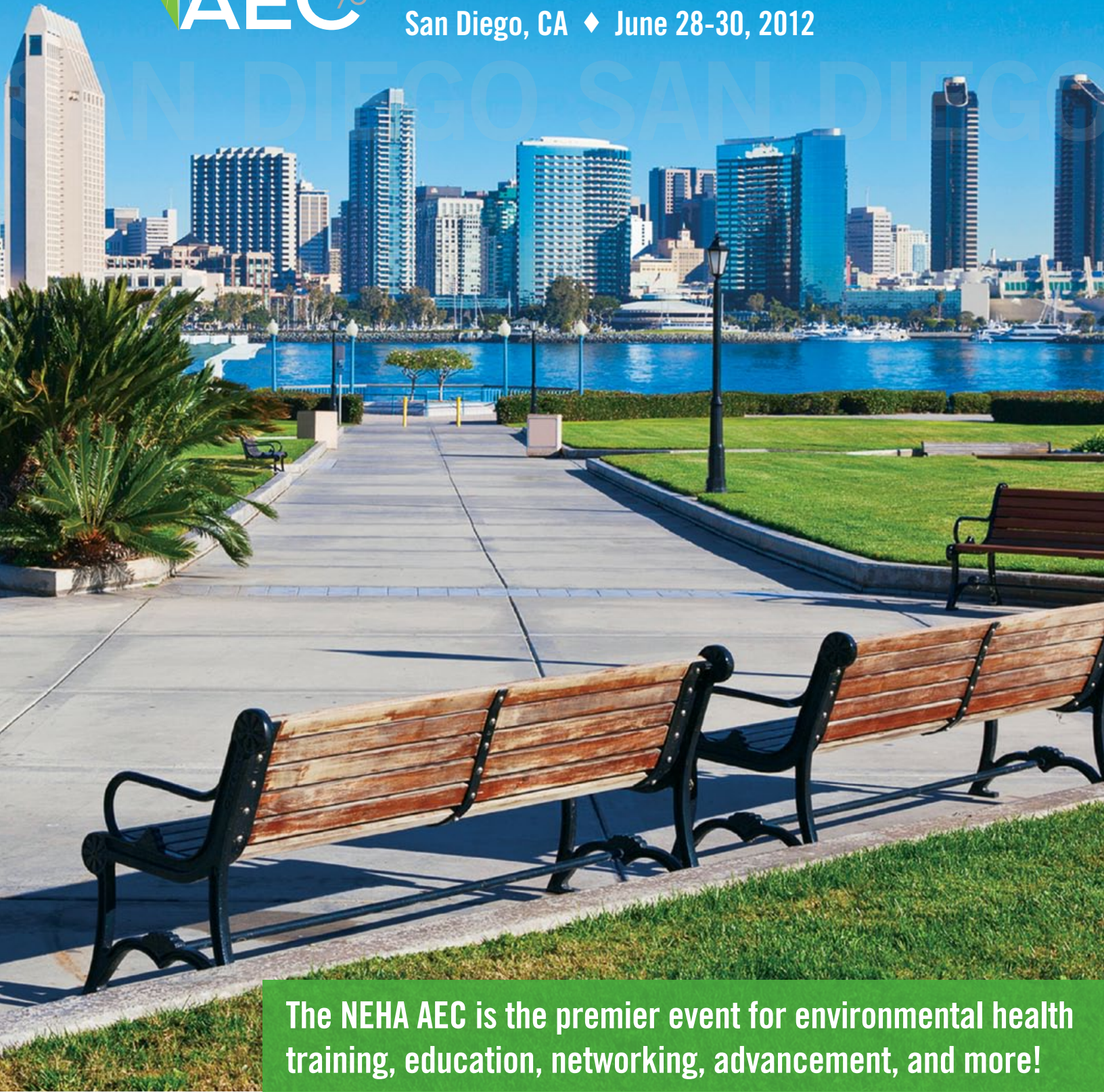
NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION (NEHA) PRESENTS



NEHA

AEC<sup>76<sup>th</sup></sup>

Annual Educational Conference (AEC) & Exhibition  
San Diego, CA ♦ June 28-30, 2012



The NEHA AEC is the premier event for environmental health training, education, networking, advancement, and more!



# NEHA AEC

## June 28-30, 2012



## Reasons Why

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

Difficult times make it more important than ever that you **NOT** miss the skills, knowledge, and expertise that can be derived from the NEHA AEC, which can help you and your organization build for a better tomorrow.

1. The NEHA AEC is a unique opportunity for you to gain the skills, knowledge, and expertise needed to help solve your environmental health organization's daily and strategic challenges, and to make recommendations to help improve your bottom-line results.
2. NEHA's AEC is the most comprehensive training and education investment your organization can make all year.
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 provides a return on the investment (ROI) made for you to attend the AEC.

### Need additional reasons why you should attend?

Check out the videos on [neha2012aec.org](http://neha2012aec.org) to hear what other environmental health professionals are saying about attending the NEHA 2012 AEC.

#### AEC SPONSORS INCLUDE:





## Join Us in San Diego

San Diego is a destination you don't want to miss! It is California's second largest city, where blue skies keep watch over 70 miles of pristine beaches and a gentle Mediterranean climate means paradise every day.

San Diego County's 4,200 square miles offer immense options for business and pleasure. San Diego is renowned for a dazzling array of world-class family attractions including the world-famous San Diego Zoo and San Diego Zoo Safari Park, Sea World San Diego, and LEGOLAND California. The city offers an expansive variety of things to see and do, appealing to guests of all ages from around the world!

Stay at the NEHA AEC designated hotel (the San Diego Marriott Marquis & Marina) and enjoy access to all there is to see and do in San Diego. The enchanting waterfront location of the hotel makes it easy to walk to areas like the Gaslamp Quarter—a 16-block historic district filled with restaurants, specialty shops, and more!

Visit [neha2012aec.org](http://neha2012aec.org) and click on "About San Diego" to plan how you're going to enjoy the NEHA 2012 AEC destination!

## AEC Designated Hotel

### San Diego Marriott Marquis & Marina

333 West Harbor Drive, San Diego, CA 92101

To make your hotel reservations, visit [neha2012aec.org/hotel.html](http://neha2012aec.org/hotel.html).

Book your hotel room today to secure your stay at the beautiful San Diego Marriott Marquis & Marina at a wonderfully discounted rate of \$149/night\*!

For this rate, you'll get to experience this beautiful hotel on the bay at a price drastically reduced from the normal rate. Additionally, you will have the convenience of your hotel room and the NEHA AEC being in the same place making it unnecessary to arrange for a rental car or other transportation to get you where you need to be.

Note that NEHA discounted rooms are sold out for the dates of June 24-26, 2012 at the San Diego Marriott Marquis & Marina. Therefore, NEHA is making other room arrangements at the nearby Manchester Grand Hyatt. For the most updated information about room availability, visit [neha2012aec.org/hotel.html](http://neha2012aec.org/hotel.html).

\*Taxes and fees also apply. To receive the discounted rate of ONLY \$149/night, you must book your hotel room within the NEHA block. Discounted rooms are available on a first-come, first-serve basis. Rooms with a bay view are also available at \$169/night plus taxes and fees.

# 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.*

# Training

### **EH Health Impact Assessments (HIA)**

- Designing an HIA: You Take the Lead
- Tox in a Box: A Concise Training on the Health Assessment of Environmental Hazards

### **Food Protection and Defense**

- My Restaurant Did What?!  
*Session sponsored by Decade Software Company*
- ROP HACCP: Hazards, Preventive Measures, and Educational Opportunities

### **General EH**

- Business Networking 101
- Radiological Tales: Lessons Learned for the EH Professional
- Tracking in Action: Using the Tracking Network to Impact Environmental & Public Health Programs

### **Informatics/Leadership/Management**

- Making the Message Stick



## LEARNING LAB SESSIONS

Engage in interactive, dynamic, and self-driven sessions, which will provide you with hands-on training and real-world experience to help you cultivate new skills and bolster your proficiency to increase your productivity as an environmental health professional.

- Wake Up to the Social Media Planning Challenge
- Woodstock to WWF: How to Benefit from Generational Differences in the Workplace

### **Onsite Wastewater**

- (Field Trip) Tour of an Ecological Wastewater Treatment and Reuse: Decentralized Model  
*Session sponsored by Living Machine Systems*

### **Technology and EH**

- Mobile Phone Usage: More, More, More or Less, Less, Less?
- There's an App for That
- (Field Trip) University of California, San Diego: California Institute for Telecommunications and Information Technology—Cal-(IT)2 Tour

### **Terrorism/All-Hazards Preparedness**

- Using Community-Based Participatory Research to Build Capacity for Environmental Emergency Preparedness and Disaster Resilience

*The sessions below are a special group of Learning Labs that are scheduled for several hours each day during the AEC. At any one time, there will be multiple sessions taking place. Like other Learning Labs, these sessions will have a presenter and will be highly interactive. However, you are in charge of when you want to attend and the pace at which you wish to learn about a particular topic.*

### **Children's EH**

- Sanitation in Classroom and Food Preparation Areas in Child Care Facilities from North and South Carolina

### **Food Protection and Defense**

- Food Establishment Resource Library (FERL) on the Southern Nevada Health District Website
- What's Cooking? Ethnic Foods 101

### **Healthy Homes and Communities**

- The Effects of Indoor Air Pollutants on the Lung Health of Asthmatic Patients

## EDUCATION

*Knowledge. Understanding. Expertise.*

# Education



## LECTURE SESSIONS

Acquire comprehensive information from environmental health subject matter experts and industry leaders, and learn from your peers as you share stories and best practices to address common challenges.

### **Children's EH**

- Effectiveness of Local Lead Poisoning Prevention Laws
- Food Safety Risk, Response, and Resources: A School Food Service Action Guide
- Lead Guidelines for Children's Play Areas: The Need for Clean Soil Policies to Protect Children
- Methamphetamine Contamination Closes West Virginia School
- Pediatrician's Perceptions on Child Lead Poisoning

- Protecting Children: Tools to Improve Environmental Health in Child Care Settings
- What Got Into the Kids?

### **EH Health Impact Assessments (HIA)**

- Community Engagement and Health Impact Assessments
- Environmental Impact Assessment: An Unrealized Opportunity for Environmental Health
- Using Health Impact Assessments for Comprehensive Plan Updates

### **Emerging EH Issues**

- Medical Marijuana in California: Legal Standing and Dealing with Edible Products
- The Role of Public Health in Promoting a Food System that Is Safe, Secure, and Sustainable: S3
- What Is the Matter with Raw Milk?

### **Food Protection and Defense**

- Addressing Illegal Food Vending and Food Defense with Education and Innovation
- Are You on the Cutting Edge?

- (Food Safety Focus) FSMA: What it Signifies for the Training and Certification of Regulatory Personnel  
*Session sponsored by MindLeaders and Prometric*
- (Food Safety Focus) What Does it Mean to be Epi-Ready? How the Emergency Response Network Works  
*Session sponsored by MindLeaders and Prometric*
- Impact of Internet Posting of Restaurant Inspection Scores on Critical Violations  
*Session sponsored by Decade Software Company*
- New Deli Slicer Standards in Food Safety
- Pets in Retail Food Outlets: A Literature Review
- Scores and More: Can You be Sued for Giving a Restaurant a Good Grade?
- The Fight Against Food Allergens: What Regulators and Industry Need to Know  
*Session sponsored by San Jamar*
- The Role of Rapid Cycle Improvement in Addressing Recurrent Critical Violations in Restaurants
- What's Hiding in Your Sandwich?  
*Session sponsored by San Jamar*

#### General EH

- Effective Strategies to Reduce Motor Vehicle Injuries in Native American Communities
- How an Agricultural Field Toilet Inspection Program Reduced Food Contamination Risk and Improved Farm Worker Health
- Human Mercury and Antibiotic Resistant Bacterial Sampling Along the Indian River Lagoon, FL: Dolphin and Human Health
- Nanomaterials for Environmental Remediation: Nanoinformatics for State Agencies' Safety and Health Regulatory and Oversight
- Outdoor Air Quality Impacts at Hydraulic Fracturing ("Fracking") Sites in Fort Worth
- Rat Hoarder Case  
*Session sponsored by Orkin*

#### Hazardous Materials and Toxic Substances

- California's Unified Approach to Hazardous Material Programs
- Interagency Cooperation Helps Solve Mercury Mystery Threatening Children in Twin Falls, Idaho
- Methamphetamine Lab Contamination: A Different Look at the Impact of the Meth Epidemic
- Responding to Mercury Incidents
- San Bruno—Restoring a Community
- What Do You Do When You Have a Bomb Factory in Your Neighborhood?
- What Goes Up Must Come Down: Lessons Learned from Emergency Air Monitoring During the Escondido Bomb House Burn

#### Healthy Homes and Communities

- Home Is Where the Hazards Are
- Indoor Air Quality in Rural Alaskan Homes
- Preserving Our Past to Protect Our Future
- The Fungus Among Us: Blasto Isolated in the Home Environment
- The Inspector's Guide to Indoor Pool Air Quality

- "Why Don't People Walk?!" A Case Study of Active Travel at a Sustainable University

#### Informatics/Leadership/Management

- Cross Community Collaborations for Environmental Health
- EPH & Priority Based Budgeting—This Happened to Me!
- Look Inside a Statewide Environmental Reporting System Project  
*Session sponsored by Decade Software Company*
- State Environmental Health Policy
- Sustainable Policy in Environmental Public Health
- Using Dashboards to Make More Sense of Your Data
- Using Environmental Public Health Tracking Data to Assess State Public Health Laws

#### International EH

- Contents of Heavy Metals in Arable Soils and Birth Defect Risks in Shanxi, China: A Small-Area Level Geographical Study
- Implication of E-Waste Trafficking on Human Health
- Rapid Evaluation and Improvement of Drinking Water Supplies in Africa
- Understanding Team Organizational and Incident Command Challenges: Practice and Application During Two Different International Outbreak Responses

#### Onsite Wastewater

- Ecological Wastewater Treatment and Reuse: The Decentralized Model  
*Session sponsored by Living Machine Systems*
- Recycled Coconuts as an Onsite Wastewater Technology?

#### The following sessions are being presented by the California Onsite Wastewater Association (COWA):

- Conducting a Small Community Assessment for Wastewater Infrastructure Improvements
- Contracts: Managing Expectations
- OWTS Inspections
- OWTS Management, Operations, Maintenance & Monitoring
- Principles of Plan Checking
- Technology Approval
- Writing a Successful Grant

Additional sessions will also be offered by the State Onsite Regulators Alliance (SORA).

#### Pathogens and Outbreaks

- Collaboration Between FDA and Local Agencies to Assess the 2011 Multistate Cantaloupe *Listeria monocytogenes* Outbreak
- Legionnaires' Disease Outbreak at a Long-Term Care Facility: Environmental Health Considerations
- Passing Parasites: A Rare Foodborne Giardiasis Outbreak at a Restaurant
- Rapid Response Teams and the FDA CORE Network: Improving Foodborne Outbreak Responses
- Severe Brain Infections and the Environment: The Changing Epidemiology of *Naegleria fowleri* Infections

- Water and Foodborne Enteric Protozoa: Current Considerations for Environmental Health
- Zygomycosis Issue Following the Joplin Tornado

#### Recreational Waters

- A Potpourri of New Standards You Need to Know about for Pool and Spa Inspections
- Biofilms in Recreational Water: What Makes Them So Hard to Treat?
- Building an Aquatic Health Program of Excellence
- National Swimming Pool Codes—Junction of Health and Building Officials
- Pool Safety: From Construction to Technology
- Ultraviolet for Aquatics & Spray Parks: Air Quality and *Cryptosporidium*

#### Sustainability/Climate Change

- Climate Change Impacts on the Built Environment and Public Health
- Confronting Climate Change Health Risks in the Pacific Northwest
- Environmental Health, Sustainability, and Land Use Planning—A Perfect Trifecta
- Innovative Solid Waste Permitting, Organics Diversion, and Sustainability in the Napa Valley
- Wildfire Particulate Emissions and Respiratory Health Under Climate Change Scenarios: Project Overview and Results

#### Terrorism/All-Hazards Preparedness

- A Day of Disaster: The Environmental Health Impact of the April 2011 Tornadoes in Alabama
- Functional Assessment Service Teams (FAST): Emergency Sheltering for People with Access and Functional Needs
- National Preparedness Measures and Their Implications for Environmental Health
- Response to Hurricane Irene
- Riverwatch 2011: An Environmental Public Health Response to a Major Flood Event
- Riverwatch 2011: How a Local Environmental Public Health Agency Implemented Health Codes to Condemn Private Residences
- Understanding Water Issues During Selected Natural Disasters

#### Vector Control and Zoonotic Diseases

##### Session track sponsored by Orkin

- Bed Bugs: A Re-Emerging Public Health Challenge
- Environmental Risk Factors for Re-Emerging Epidemic Typhus
- What Is the Buzz about PCRs?
- Where Have All the Vector Programs Gone?

#### Water Quality

- An Evaluation of Dual Bacteria Indicators for Urban Stormwater Control
- Minnesota's Assessment Source Water Monitoring Study
- Toolbox Approach of Source Tracking Human Sewage in Storm Drains

# Training and Educational Session Highlights

The NEHA AEC offers so many relevant training and educational sessions for environmental health. Here is just a sample of the great sessions you can experience in San Diego. For all session descriptions, visit [neha2012aec.org](http://neha2012aec.org).

## NEW TRACKS

New tracks featured at this year's AEC include EH Health Impact Assessments, Pathogens and Outbreaks, and Technology and EH.

### EH HEALTH IMPACT ASSESSMENTS

**Designing an HIA: You Take the Lead**  
During this interactive session, you will learn the fundamentals of current HIA practice. You will also have the opportunity to apply your new knowledge to a case study while working with others in a small group and then presenting your findings during a large group discussion.

**Community Engagement and Health Impact Assessments**

Are the objectives of meaningful community participation consistent with the goals of an environmental health impact assessment? This session will look at why, to what extent, and how the community should be involved in environmental health impact assessments (HIA). Attend this session and examine the importance of community participation and what it means to have meaningful community participation within an environmental HIA.

**Environmental Impact Assessment: An Unrealized Opportunity for Environmental Health**

Environmental Impact Assessments (EIA) are mandatory studies through which state and federal agencies evaluate the potential impacts of proposed policies and projects. Requirements for EIA apply to a wide range of public-sector decision making, from project permitting (highways and public transportation projects, oil exploration and large mines, housing development, and power plants, for example) to policy development (such as setting fuel economy standards and developing land-use plans). Despite the importance of many such decisions to public health, EIAs rarely include an in-depth, systematic consideration of the health effects of proposed state or federal policies and projects. Recently, public health professionals have begun to use health impact assessments as a means to integrate public health into EIA. This presentation will introduce the concept of HIA; examine the legal framework in which HIAs can

become a more integral part of EIA; discuss findings from the National Research Council's report on HIA as it pertains to EIA; and provide case examples of where HIA has been integrated into EIA processes for transportation and land-use decisions.

**Tox in a Box: A Concise Training on the Health Assessment of Environmental Hazards**

Have you had to interpret environmental data and make a public health determination? Have you been asked to give advice on how to reduce or eliminate exposure to a hazardous substance or condition? Have you had to provide input on environmental sampling for an exposure investigation? If so and you weren't sure what to do or if you were unsure of your skills in this area, then this three-hour interactive session is for you. This session is designed for people needing to learn how to apply exposure evaluation and risk assessment principles and methods to environmental health practice. Or if you know how but would like to improve your skills in this area, then attend this session.

**Using Health Impact Assessments for Comprehensive Plan Updates**

Comprehensive plans are one of the primary tools used by local governments to achieve their vision, regulate land use, and guide future investments over a specific period of time. During this session, the Minnesota Department of Health will describe how to use a Health Impact Assessment to help integrate public health criteria into comprehensive plans. Attend this session and learn how to increase collaboration between public health and planning agencies to promote healthy, sustainable communities.

### PATHOGENS AND OUTBREAKS

**Collaboration Between FDA and Local Agencies to Assess the 2011 Multistate Cantaloupe *Listeria monocytogenes* Outbreak**

Last year was the first time a *Listeria monocytogenes* outbreak had been linked to whole cantaloupe. Attend this session to hear about how FDA collaborated with state and federal partners to work to identify the factors on the farm that may have contributed to this unusual outbreak.

**Legionnaires' Disease Outbreak at a Long-Term Care Facility: Environmental Health Considerations**

As the number of legionnaires' cases rises in any given region, it is imperative that local health officials arm themselves with the knowledge to adequately assess exposure environments. Attend this session to arm yourself and your department with lessons learned from a recent outbreak at a long-term care facility.

**Passing Parasites: A Rare Foodborne Giardiasis Outbreak at a Restaurant**

A shocking foodborne giardiasis outbreak was investigated and linked to 13 mostly asymptomatic, laboratory-positive restaurant employees. Control included the use of a multitude of standard and unprecedented control measures: a risk control plan, employee training, improved hygiene, close regulatory oversight, employee testing, and the exclusion and restriction of Giardia-positive employees. The multidisciplinary Epi-Ready investigative approach, paid employee sick leave, and strong health director support were key in ending disease transmission to the community. Attend this session to hear about this rare outbreak and learn about tools that you can use for your own investigations in the future.

**Rapid Response Teams and the FDA CORE Network: Improving Foodborne Outbreak Responses**

This presentation highlights resources developed in 2011 by the U.S. Food and Drug Administration's (FDA) Rapid Response Team (RRT) Pilot Project that environmental health professionals can use to improve the efficiency and effectiveness of their agency's foodborne illness response team, as well as the CORE Network's effort to streamline the processes in relation to signals, response, and post-response activities. Attend this session and return to your office with FDA resources that you can use to help improve foodborne illness response.

**Severe Brain Infections and the Environment: The Changing Epidemiology of *Naegleria fowleri* Infections**

*Naegleria fowleri* is a heat-loving amoeba that causes a rare waterborne disease called

primary amebic meningoencephalitis (PAM). Following swimming in freshwater lakes, the ameba enters the nose and follows the olfactory nerve to the brain where it digests brain tissue and causes death. Although PAM is a rare disease, it has a large impact due to the high mortality rate (>99%) and loss of trust in recreational waters. Attend this session to learn about ameba basics, recent epidemiologic changes, and challenges for prevention efforts.

### **Water and Foodborne Enteric Protozoa: Current Considerations for Environmental Health**

This timely session will discuss emerging issues surrounding food and waterborne enteric protozoa; highlight emerging technologies for their diagnosis; and discuss water and wastewater treatment to aid in the surveillance, prevention, and control of current and potential emerging pathogens.

### **Zygomycosis Issue Following the Joplin Tornado**

Mucormycosis (formerly zygomycosis) is a rare infection that is caused by fungi that are typically found in the soil and in association with decaying organic matter, such as leaves, compost piles, or rotten wood. Unfortunately, the events that occurred in Joplin created the perfect environment for exposure to these pathogens, and some injured survivors began showing signs of this unusual wound infection. The CDC Mycotic Diseases Branch sent a team to Missouri to help with the investigation into the outbreak of serious fungal skin infections that occurred among people injured in the Joplin tornado. Attend this session to learn about their experiences from Joplin including their professional challenges and personal reactions to this disaster.

### **TECHNOLOGY AND EH**

#### **Mobile Phone Usage: More, More, More or Less, Less, Less?**

Should I talk more, more, more on my mobile phone or less, less, less? Sure, brain cancer over the past decade has increased over 30% in the U.S., but what does that really have to do with mobile phones? And with a flurry of conflicting studies out there, how do I make any good decisions about using my phone? Can't I just wait until everyone agrees on the risks before I change my usage? This roundtable discussion not only looks at the current epidemiological studies and reviews of mobile phone usage, but offers strategies to critically assess the evolving body of literature on the immediate and future risks posed by mobile phone usage.

### **There's an App for That**

The extraordinary demand for instant information everywhere we go has crossed over into the daily activity of our environmental health profession. Public health data and inspection results are now being made available on smartphone devices through mobile apps and Quick Response (QR) codes. During this session, three jurisdictions from throughout California with restaurant rating systems in place will share how inspection results for restaurant can be found at your fingertips 24/7.

### **(FIELD TRIP) University of California, San Diego, California Institute for Telecommunications and Information Technology—Cal-(IT)2 Tour**

The Cal-(IT)2 facility has been designed to help the public understand how technology is conceived, studied, developed, and implemented, especially in integration with other technologies such as in Cal-(IT)2's "living laboratories." As a visitor on this tour, you will be able to explore an exhibit gallery, look down from a catwalk to watch scientists at work, observe the Nano3 facility, and stroll through a rooftop "antenna garden" to learn about wireless technology. The name Nano3 reflects the synergetic nature of the facility, focusing on three fields of nanoscale research and development within the space—Nanoscience, Nanoengineering, and Nanomedicine. In addition to providing essential nanofabrication capabilities for research on electronic and optoelectronic materials and devices, the facility is intended to facilitate the pursuit of research in emerging, interdisciplinary, and rapidly growing fields such as biomedical and biochemical devices, heterogeneous integrated devices and circuits, and sensor technology.








This tour will utilize smartphone QR codes. QR codes are placed throughout the tour to educate visitors about the facility. If you are interested in the tour and don't have a smartphone, let the organizer know and you will be paired with another attendee.

Space for the tour is limited to 20 people so make sure to sign up today by contacting Shelly Wallingford at (303) 756-9090 ex 313 or [swallingford@neha.org](mailto:swallingford@neha.org).

## **COLLABORATION AND EH ROLES IN HAZARDS AND PREPAREDNESS**

Environmental health departments often need to work with multiple departments and agencies to respond to the community in instances involving hazardous materials, toxic substances, and/or natural disasters. Additionally, environmental health needs to understand the multiple roles it can play in these scenarios. Attend these sessions in the "Hazardous Materials and Toxic Substances" and "Terrorism/All-Hazards Preparedness" tracks to hear case studies and learn about tools and techniques to implement in your department.

### *Multi-Agency Cooperation:*

-  **California's Unified Approach to Hazardous Material Programs**
-  **Functional Assessment Service Teams (FAST): Emergency Sheltering for People with Access and Functional Needs**
-  **Interagency Cooperation Helps Solve Mercury Mystery Threatening Children in Twin Falls, Idaho**
-  **Responding to Mercury Incidents**
-  **Riverwatch 2011: How a Local Environmental Public Health Agency Implemented Health Codes to Condemn Private Residences**
-  **San Bruno—Restoring a Community**
-  **What Goes Up Must Come Down: Lessons Learned from Emergency Air Monitoring During the Escondido Bomb House Burn**

### *Key Roles of EH in Preparedness:*

-  **A Day of Disaster: The Environmental Health Impact of the April 2011 Tornadoes in Alabama**
-  **National Preparedness Measures and Their Implications for Environmental Health**
-  **Riverwatch 2011: An Environmental Public Health Response to a Major Flood Event**
-  **Using Community-Based Participatory Research to Build Capacity for Environmental Emergency Preparedness and Disaster Resilience**

## FOOD PROTECTION AND DEFENSE

Some of the sessions in this year's "Food Protection and Defense" track will cover hot topics in this area and will detail process improvements that can help environmental health and retail food collaborate in ways that are proactive and efficient for all involved.

*Hot Topics:*

### Addressing Illegal Food Vending and Food Defense with Education and Innovation

Riverside County has launched two educational campaigns with the objectives of reducing the rise of un-permitted food vendors and introducing food defense concepts to food workers. Attend this session and learn how to utilize tools developed by Riverside County to address issues of illegal food vending within your jurisdiction. Also discover innovative ways to introduce food defense concepts to food employees in your food facilities.

### Pets in Retail Food Outlets: A Literature Review

Attend this session to stay abreast of emerging issues related to pets and the hospitality industry. The presence of service animals in restaurants as allowed under the 1990 Americans with Disabilities Act, coupled with the resurging popularity of tea cup dogs and portable exotic pets, raises questions about the environmental health and safety implications of animals in patronage areas within retail food outlets. Public policy developers should consider vulnerable populations such as children, pregnant women and their fetuses, asthmatics, and the immune-compromised. Attend this session and learn best practice preventive measures for pets in restaurants.

### Scores and More: Can You be Sued for Giving a Restaurant a Good Grade?

Does a perfect score on an inspection report impart a false sense of security to restaurant patrons? What if someone who relies on your inspection to choose where he eats gets sick? Can he sue your agency for a failure to warn or prevent illness? The City of Sunnyvale faces such a situation after an E. coli outbreak is traced to the Greasy Spoon—a restaurant that received an A+ on its most recent inspection. Sunnyvale Environmental Health's restaurant inspectors were left scratching their heads. Did giving the Greasy Spoon a perfect score just days before the cross-contamination happened constitute a failure of some sort that left the city open to lawsuits? Attend this session to get answers from food safety attorney Bill Marler as he addresses this question and more.

### What's Hiding in Your Sandwich?

*Session sponsored by San Jamar*

Attend this presentation to make sure nothing is hiding in your food! This session will look at the history of Hazard Analysis Critical Control Points (HACCP) and its principles; FDA Defect Action Levels and the reasoning behind them; some of the latest technology to find defects; and foreign material in food. Several real life examples of food adulteration will be reviewed during this session. The types of contamination, the sources, and how to prevent contamination and adulteration will also be discussed.

*Process Improvements:*

### Are You On the Cutting Edge?

In Maricopa County, all county food-related establishments now have the opportunity to participate in implementing a proactive approach to reducing foodborne illness risk factors. Maricopa County has implemented Active Managerial Control (AMC) into its routine food safety inspections as an embodiment of a preventative rather than reactive approach to preventing foodborne illness. By implementing this program, Maricopa County focuses its inspections on assessing the degree of AMC a food service operator has over the potential foodborne illness risk factors. During this session, food safety regulators will learn how their organization can develop a similar program, and food service managers will learn how to partner with their regulators to increase AMC in their facilities. Attend this session to help improve innovation and collaboration towards safer food in your community.

### Impact of Internet Posting of Restaurant Inspection Scores on Critical Violations

*Session sponsored by Decade Software Company*

Posting restaurant inspection scores on the Internet as a tool for improving food safety is becoming more common. Studies have been conducted evaluating the effectiveness of posting restaurant inspection scores in windows, however there has not been an evaluation of the association between posting scores on the Internet and restaurant inspection results. Therefore, the Salt Lake Valley Health Department and the University of Utah conducted a joint study with the purpose of evaluating the association between Internet posting of restaurant inspection scores and the five most frequently cited critical violations in Salt Lake County, Utah. Attend this session to hear the results of the study and a discussion of the essential elements in Salt Lake County's website that have proven to be successful in reducing critical violations. After attending this session you will be able to determine if posting restaurant scores would be beneficial for your specific jurisdiction.

### New Deli Slicer Standards in Food Safety

The Deli Style Slicer has been implicated in past foodborne illness outbreaks and is now undergoing a re-design to help increase the useful food safety life of this piece of food service equipment. Attend this session to learn where problems with the current design deteriorated over time and the improvements to the ANSI standard that will lead to better food safety with this piece of food equipment. Also learn what you can do to reduce *listeria* outbreaks caused by slicers today.

### The Role of Rapid Cycle Improvement in Addressing Recurrent Critical Violations in Restaurants

The Cuyahoga County Board of Health (CCBH) Food Protection Program received a grant from The Ohio Voluntary Accreditation Team (OVAT) to assess the strengths and weaknesses of the CCBH food inspection program. A weakness identified during this assessment was re-inspection time spent by the staff in restaurants due to reoccurring critical violations. CCBH staff was spending just under 1,800 hours conducting re-inspections of food services with reoccurring CDC risk factor critical violations. Though re-inspections are a routine part of the food safety inspection program, this amount of time seemed excessive. Therefore, CCBH initiated a pilot study and utilized the rapid cycle improvement tool to see how it could reduce the number of re-inspection hours. Attend this session to hear about the successful results and to learn how a quality improvement strategy such as this can be implemented in your own department.

*Food Safety Focus Sessions:*

*Sessions sponsored by MindLeaders and Prometric*

### FSMA: What it Signifies for the Training and Certification of Regulatory Personnel

### What Does it Mean to be Epi-Ready? How the Emergency Response Network Works

**Be sure to also visit the Exhibition on Thursday and Friday to learn about the latest products, services, and tools offered by exhibitors that will help you be more productive in your job.**

## EHTER Emergency Response Training

► **Tuesday & Wednesday, June 26 & 27, 8:00am–5:00pm**

California Department of Public Health Center for Environmental Health, CDC, and NEHA are pleased to offer the Environmental Health Training in Emergency Response (EHTER) Awareness Level training course for environmental health professionals. This two-day EHTER Awareness Level course provides an overview of the environmental health roles and responsibilities, issues, and challenges faced during emergency response. The purpose of the course is to increase the level of emergency preparedness of environmental health practitioners and other emergency response personnel by providing them with the necessary knowledge, skills, and resources to address the environmental health impacts of emergencies and disasters.

Applicants are encouraged to complete basic NIMS/ICS/SEMS trainings prior to attendance.

This course offers sixteen hours of continuing education credit for California Registered Environmental Health Specialists.

*Cost is \$99 for members and \$199 for non-members.  
Limit 55 people.*

## Epi-Ready Team Training: Foodborne Illness Response Strategies Workshop

► **Tuesday & Wednesday, June 26 & 27, 8:00am–5:00pm**

NEHA is offering this training opportunity for environmental health professionals, epidemiologists, laboratorians, and public health nurses involved in conducting foodborne disease outbreak investigations. This two-day workshop is composed of interactive group exercises, Q&A sessions, and lectures spanning the scope of an investigation.

Those interested in participating must submit an application for consideration. Team applications are preferred. For more information please visit [neha2012aec.org](http://neha2012aec.org).

*Cost is to be determined.  
Limit 40 people.*

## Industry-Foodborne Illness Investigation Training (I-FIIT) Workshop

► **Wednesday, June 27, 8:00am–5:00pm**

I-FIIT is a one-day face-to-face workshop designed to bring together retail food service representatives and local and state regulatory officials in an effort to create stronger working relationships prior to a potential foodborne incident occurring, so that if and when it does, the foundation is already set for a collaborative effort. Additionally, the workshop provides a better understanding and clarification of the investigation process by identifying roles and responsibilities, discussing early detection strategies and establishing and implementing control measures based on model practices. By providing this training, I-FIIT aims to assist industry and regulatory officials in producing a more rapid, efficient and effective, response to foodborne illness incidents.

Applicants should be mid- to upper-level management from retail food service stores and restaurants. Deadline to submit an application is May 4, 2012. Applicants will be notified of their acceptance no later than May 16, 2012. For more information and a registration form, please visit [neha2012aec.org](http://neha2012aec.org).

*Cost is \$299 per person.  
Limit 30 people.*

## Commercial Cooking Ventilation Requirements

► **Wednesday, June 27, 8:00am–12:00noon**

Mechanical Code and NFPA 96. This workshop will include information on recirculating systems—referred to as “ductless hoods”—and cooking appliances that do not require exhaust hoods. Information will be provided on key installation concerns, proper sizing of hoods, sanitation issues, and the scope and limitations of the listed products used in the commercial kitchen exhaust systems. This workshop will identify resources available to assist in plan checking and inspecting installations.

*Cost is \$109 for members and \$159 for non-members.  
Limit 24 people.*

## NSF Training Course “Plan Review for Food Establishments”

► **Thursday, June 28, 8:00am–5:00pm**

NSF International's Center for Public Health Education is pleased to announce a new training course entitled “Plan Review for Food Establishments.” This course was developed by NSF International's leading environmental health professionals and represents the latest plan review information in a dynamic and interactive format. Whether you are a regulator or an industry professional hoping to build knowledge of the plan review process, the course will provide key information that ensures accordance with current U.S. Food and Drug Administration (FDA) guidelines. This one-day workshop will cover the Plan Review application process; regulatory authority compliance; design, installation and construction of a food establishment; compliance with Hazard Analysis Critical Control Points (HACCP) and Good Manufacturing Practices (GMPs); and a plan review outline as it pertains to the current food code. Students should bring a set of plans to work with and students will be provided with a copy of the year 2000 FDA/CFP Plan Review Blue Book.

“Plan Review for Food Establishments” is strongly recommended for sanitarians, consultants, local and state regulatory officials, industry professionals responsible for the preparation, design and approval of food establishment plans.

*Cost is \$109 for members and \$159 for non-members.  
Limit 30 people.*

## “GREENING” THE AEC

As your professional organization on environmental health, NEHA continues to aggressively pursue ways in which to “green” our AEC. For information about how we will continue in this effort with the 2012 AEC, visit [neha2012aec.org/green.html](http://neha2012aec.org/green.html).

Careers. Aspirations. Respect.

# Advancement

## CREDENTIAL/CERTIFICATION COURSES AND EXAMS

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.)

Separate applications are required prior to registering for courses and exams. Additional fees also apply. For applications, deadlines to apply, and information on eligibility, visit [neha2012aec.org](http://neha2012aec.org).

### Certified Professional of Food Safety (CP-FS)

*Review Course:* Tuesday, June 26, 8:00am–5:00pm & Wednesday, June 27, 8:00am–12:00noon

*Cost:* \$299 for members and \$399 for non-members, which includes the CP-FS Study Package (CP-FS Study Guide 2010 Edition, NEHA's Certified Professional Food Manager course book, 2005 and 2009 Food Code on CDs), a \$145 value. *Limit 36 people.*

*Exam:* Wednesday, June 27, 1:00–3:00pm

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

*Review Course:* Tuesday & Wednesday, June 26 & 27, 8:00am–5:00pm and Thursday, June 28, 8:00am–12:00noon

*Cost:* \$459 for members and \$559 for non-members, which includes the REHS/RS Study Guide, a \$179 value. *Limit 55 people.*

*Exam:* Friday, June 29, 8:00am–12:00noon

### HACCP Manager Certification Course

*Previous training with a minimum of Certified Professional Food Manager is highly recommended.*

*Review Course:* Wednesday, June 27, 8:00am–5:00pm

*Cost:* \$249 for members and \$299 for non-members, which includes the NEHA textbook, HACCP: Managing Food Safety Hazards. *Limit 36 people.*

*Exam:* Thursday, June 28, 8:00am–12:00noon

### NAWT Installer Training + NEHA CIOWTS Installer Exam (Basic)

*Review Course:* Wednesday, June 27, 8:00am–5:00pm. *Limit 40 people.*

*Cost:* \$299 for members and \$399 for non-members.

*Exam:* Thursday, June 28, 8:00am–12:00noon

### Essentials for Healthy Homes Practitioners Review Course and The Healthy Homes Specialist (HHS) Credential Exam

For information about this course and exam, visit [neha2012aec.org](http://neha2012aec.org).

## CONTINUING EDUCATION 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:

- 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 on the Internet during the AEC or as an archive after the AEC is over

For specific information about obtaining CEs at the AEC, visit [neha2012aec.org](http://neha2012aec.org). CE units have also been related for correlating portions of the AEC from the American Association of Radon Scientists and Technologists (AARST); American Board of Industrial Hygiene (ABIH); and National Center for Healthy Housing (NCHH).

### Attention California Registered Environmental Health Specialists:

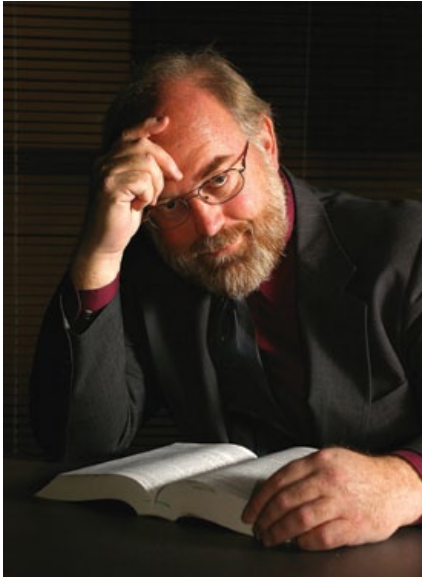
*NEHA is designated by the California Department of Public Health as a continuing education accreditation agency for Registered Environmental Health Specialists.*

*Fulfill your continuing education requirement by attending the NEHA 2012 AEC. Attending will count towards completion of your continuing education requirement with up to 24 CEs being awarded for attending the educational sessions and other events. To obtain CEs, a separate application and fee must accompany your AEC registration. For complete details, visit [neha2012aec.org/CA\\_REHS.html](http://neha2012aec.org/CA_REHS.html).*

**Leave the NEHA AEC much better prepared to realize your career goals and personal aspirations. Also be positioned to contribute even more greatly to both your organization and your profession!**

Perspective. Leadership. Excellence.

# Motivation and Inspiration



## AWARDS CEREMONY & KEYNOTE ADDRESS

Thursday, June 28, 2012, from 1:00 to 2:50 pm

### Be motivated and inspired by this year's keynote speaker—Senior Futurist, Thomas Frey.

As things continue to change across our communities, there are “new normals” emerging. So what will the future world of work—and a profession like environmental health—look like? Attend the Keynote Address at the NEHA 2012 AEC for answers as Frey's presentation continues the discussion of “new normals” that began at the 2011 AEC, and explores where things are likely to go in the future.

Thomas Frey is Google's top-rated futurist and author of “Communicating with the Future: How Re-engineering Intentions Will Alter the Master Code of Our Future”. He is Executive Director and Senior Futurist at the DaVinci Institute, and his keynote talks on futurist topics have captivated people ranging from high-level government officials to executives in Fortune 500 companies including NASA, IBM, AT&T, GE, Hewlett-Packard, Visa, Ford Motor Company, Lucent Technologies, Boeing, Capital One, Bell Canada, Times of India, Leaders in Dubai, and many more.

*“The future is truly a magical place. I have been there and would love to have you join me on my next journey.”—Thomas Frey*

The Awards Ceremony honors the best of the best in environmental health. Be inspired as those environmental health professionals and students doing outstanding work in our field of practice are recognized and honored for their efforts. Nominations are currently being accepted for the following awards:

Award	Deadline
Sabbatical Exchange Program	March 1
Mangold Award	March 15
Samuel J. Crumbine Consumer Protection Award	March 15
Walter F. Snyder Award	April 30
NEHA Excellence in Sustainability Award	May 1

*Award sponsored by UL*

For more information and to make a nomination, visit [www.neha.org/about/awardinfo.html](http://www.neha.org/about/awardinfo.html).

## STUDENTS

The NEHA AEC is for students too! If you're a student, visit [neha2012aec.org](http://neha2012aec.org) for all AEC information relevant to you.

**Be positioned to contribute even more greatly to both your organization and your profession!**

Friends. Contacts. Connections.

# Networking

At the NEHA AEC, network with not only your environmental health peers, but other experts and professionals from across government and related industries (such as retail food, onsite wastewater, and sustainability).



## How can you network at the NEHA AEC?

- Set up meetings with people you'd like to meet before arriving the AEC by utilizing the **Virtual AEC** networking features
- Meet new people and enjoy time outside on the golf course during the **Golf Tournament** Wednesday afternoon
- Reunite with friends at the always-exciting **UL Event** on Wednesday night
- Connect with exhibitors that will help you be more productive in your job during the **Exhibition Grand Opening & Party** Thursday night, and during exhibit hall hours on Friday
- Collaborate with other environmental health professionals during policy discussions at the **NEHA Breakfast (sponsored by the National Restaurant Association) and Town Hall Assembly** on Friday morning
- While at the **Networking Luncheon** on Saturday, discuss with other environmental health professionals all that you've learned so far, and what you're excited to implement when you return to work
- During the final event of the AEC — the **President's Banquet** — reconnect with everyone you've met throughout the AEC and make a plan for staying connected (including using the Virtual AEC!)
- Stay connected to your friends and contacts after leaving San Diego using the networking features of the **Virtual AEC**

**Strengthen your business and personal relationships to build a network of colleagues you can call on at anytime!**

# Special Events at NEHA AEC

## ANNUAL UL EVENT Aboard the USS Midway



Come aboard the USS Midway Museum and prepare yourself for a lifetime memory! At the Annual UL Event, you'll explore a floating city at sea and relive nearly 50 years of world history aboard the longest-serving Navy aircraft carrier of the 20th century. During the Annual UL Event you'll enjoy a tour of the historic aircraft carrier, a delicious catered dinner on the hangar deck, and other entertaining features such as private access to the flight deck to tour at your leisure. Don't miss the opportunity to see this fascinating piece of history!

*Note that the UL Event is not included in the registration pricing for the AEC. There is a separate cost to attend the UL Event.*

## COMMUNITY VOLUNTEER EVENT Balboa Park

NEHA will be holding a Community Volunteer Event as part of the 2012 AEC. This is the second year that NEHA has organized a volunteer event as part of our efforts to "green" the AEC, and to give back to the host city in which the AEC is held.

This year's Community Volunteer Event will be held at San Diego's Balboa Park. Balboa Park is the nation's largest urban cultural park. It is home to 15 major museums, renowned performing arts venues, beautiful gardens, and the San Diego Zoo. In addition, the Park has an ever-changing calendar of museum exhibitions, plays, musicals, concerts, and classes—all in the beautiful and timeless setting of this must-see San Diego attraction.

Volunteers will be working with Park Ranger Carole to help maintain and improve the park for future visitors. Projects will include planting, trail restoration, painting, and other physical activities.

Space is limited so make sure to sign up today! For more details and to sign up as a volunteer, visit [neha2012aec.org](http://neha2012aec.org).



**The Annual UL Event will be held Wednesday, June 27, 2012, from 6:30 to 10:00 pm.**



**The Community Volunteer Event will be held Wednesday, June 27, 2012, from 1:00 to 4:30 pm.**

# The Virtual Experience



Engaging in the Virtual AEC enhances your learning experience whether you attend the AEC in San Diego or participate online from your home or office via the Internet. The Virtual AEC provides you opportunities to participate in education and to network with other environmental health professionals, speakers, and exhibitors.

It also serves as a resource for you beyond the dates of the live AEC — continue networking and conversing with others and use the Virtual AEC to review valuable educational content over and over again!

Register to attend the AEC in-person or virtually and use the Virtual AEC to:

- (For virtual attendees only) View over 20 educational sessions **live** as they happen in San Diego
- (For virtual attendees only) Participate in sessions almost as if you were sitting in the room by submitting your questions via chat
- Network with other environmental health professionals, speakers, and exhibitors
- Access video archives of educational sessions, as well as, speaker presentations and other materials
- Earn continuing education credits

Already registered to attend the NEHA 2012 AEC in San Diego? The Virtual AEC is included in your registration as a free benefit. Once your registration is processed, you will receive an e-mail from [admin@zerista.com](mailto:admin@zerista.com) inviting you to participate in the Virtual AEC. If you do not receive this e-mail, please contact NEHA Customer Service at 866.956.2258.

*Voice. Collaboration. Influence.*

# Policy Involvement



NEHA supports a robust program of policy involvement on behalf of both the cause of environmental health and of every person – like you – who practices in it. Thus, the NEHA AEC provides many opportunities for you to get involved in policy.

- Attend the Town Hall Assembly on Friday morning. The Town Hall Assembly is the opportunity for NEHA leaders and members to meet in-person and hold a constructive exchange about what relevant issues are impacting the practice of environmental health.
- Collaborate with NEHA and other environmental health leaders during the AEC to help determine positions NEHA should take on different policies.
- Network and build connections with policy makers while attending sessions and events at the AEC.
- Obtain tools and knowledge from educational sessions that exemplify how you can use outcome-oriented data to demonstrate to policy makers the impact and success of your environmental health programs.



# Preliminary Schedule

*The AEC schedule, sessions, and events are subject to change at anytime without prior notification.*

Tuesday // June 26	Wednesday // June 27	Thursday // June 28	Friday // June 29	Saturday // June 30
Pre-Conference Workshops	Pre-Conference Workshops	1st Time Attendee Workshop	Breakfast and Town Hall Assembly	Educational Sessions
Credential Review Courses	Credential Review Courses	Educational Sessions	Exhibition Open	Networking Luncheon
	Credential Exams	Awards Ceremony & Keynote Address	Poster Session	President's Banquet
	Golf Tournament	Exhibition Grand Opening & Party	Silent Auction	
	Community Volunteer Event		Educational Sessions	
	Annual UL Event			

## Register Today for the NEHA 2012 AEC!

[neha2012aec.org/register.html](http://neha2012aec.org/register.html)

Don't miss the training, educational, networking, and advancement opportunities that await you at the NEHA 2012 AEC. Register today to attend at [neha2012aec.org/register.html](http://neha2012aec.org/register.html). Online registration is available or you may download a registration form to send into NEHA with payment. For personal assistance, contact Customer Service toll free at 866.956.2258 (303.756.9090 local) extension 0.

	Member	Non-Member
Full Conference Registration	\$565	\$725
One Day Registration	\$305	\$355
Student/Retired Registration	\$155	\$225

### Save \$50

Stay at the designated AEC hotel—the *San Diego Marriott Marquis & Marina*—and receive a \$50 food voucher to use toward your meal purchases.

Certain terms and conditions apply.

See AEC website for details.

COMPLETE AND UP-TO-DATE INFORMATION CAN BE FOUND ONLINE AT [NEHA2012AEC.ORG](http://NEHA2012AEC.ORG).

# 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.*

[neha2012aec.org](http://neha2012aec.org)

Follow NEHA on:  Twitter  Facebook  LinkedIn



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](http://cognitionstudio.com)

