



TRACK 7: JUST THE FACTS

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Windows and Exterior Sources of Lead: Emerging Evidence about These Potential Hazards and Methods of Control

7A-1

Monday, 1-2:30pm
Room 702

Approved for CEUs by: ABIH, ACAC, NAHB, BPI, NARI

Jonathan Wilson

National Center for Healthy Housing

Rufus Edwards

University of California-Irvine

David Jacobs

National Center for Healthy Housing

Evidence is emerging that windows and exterior sources of lead dust play an important role in childhood lead exposure. This session will present findings from studies that report on the importance of window replacement as a lead hazard control strategy, the levels of lead dust generated from residential demolition and potential mitigation strategies, and how air pollution (i.e., ozone and nitrogen dioxide) can result in increased exterior lead paint deterioration.

Pesticides and Other Persistent Chemical Contaminants in Homes and Their Potential Health Impact

7B-2

Monday, 3-4:00pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

Robin Dodson, Sarah Dunagan, Julia Brody, Ruthann Rudel

Silent Spring Institute

Gary Adamkiewicz

Harvard School of Public Health

This session focuses on pesticide and chemical residues in house dust samples from low income homes in MA, CA, and FL. Identified indoor toxins include 67 endocrine disrupting compounds along with pesticides, semi-volatile organic compounds, phthalates, and polycyclic aromatic hydrocarbons among others. Indoor air and house dust indicate building materials, furnishings and consumer products can result in significant residential exposure.

Burdens of Home Injury and Death: Associated Costs and Benefits of Interventions and Prevention Strategies

7C-1

Monday, 4:15-5:15pm
Room 702

Approved for CEUs by: ABIH, ACAC, NAHB

Jacquelyn Mason, Karin Mack

U.S. Centers for Disease Control and Prevention

Angela Mickalide

Safe Kids Worldwide

Carolyn DiGuseppi

Colorado School of Public Health, University of Colorado Denver

This session will identify the health and economic burdens of fires and other leading causes of accidental injuries and deaths in homes. Effective program interventions as well as program costs, benefits and savings will be addressed. Healthy safe homes help to prevent accidental injury and death.



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PURPOSE OR GOAL

Green, More than a Color: Research on the Potential Benefits of Green Housing on the Indoor Environment and Health
7C-2

Monday, 4:15-5:15pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHB

Emily Ahonen, Colin Murphy
University of Illinois at Chicago

Susan Aceti
National Center for Healthy Housing

Ellen Wells
Case Western Reserve University School of Medicine

Matt Berges
Environmental Health Watch

What are the health impacts of green and energy efficient housing? Does the use of green healthy homes practices achieve health gains and reduce exposure to toxicants? These studies address the potential association between green affordable housing and occupants' health, and the potential for green housing to improve health and related healthcare costs. The studies employ various techniques, including repeat collection of self-reported health data, medical care utilization data, and environmental sampling data, to answer research questions.

Neighborhood and Residential Factors Predicting Children's Lead Poisoning and Asthma Risk
7D-01

Tuesday, 1-2:30pm
Room 111

Approved for CEUs by: ABIH, ACAC, NAHB

Dimos Polyzois
University of Manitoba Department of Civil Engineering

Eleoussa Polyzoi
University of Winnipeg

Pamela L. Smith
University of Michigan School of Public Health/Saginaw County Department of Public Health

Peter Ashley
U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control

Deborah Socier
Saginaw County Department of Public Health

Presenters will report on the following research focused on identifying residential and neighborhood risk factors for lead exposure and asthma in children: 1) a Michigan study to develop a Neighborhood Index to identify neighborhoods and homes that pose the greatest risk; 2) a Canadian study that used surveys and home inspections to identify respiratory health hazards; and 3) housing factors predictive of lead hazards and elevated allergen levels from the American Healthy Housing Survey.



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**Childhood Lead Poisoning 2011:
A Mother's Story**
7D-1

Tuesday, 1-2:30pm
Room 702

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

John Rosen
Children's Hospital at Montefiore,
New York City

Leann Howell
American Lead Poisoning Help
Association

This workshop will combine one family's story of living with the effects of lead poisoning for 14 years with research on medical outcomes from a neuropsychological perspective. The session will document problems encountered with school systems for support services and methods to evaluate a child post-lead poisoning. The session will address how students are protected by Federal Law under the Individuals with Disabilities Act, which specifically addresses lead poisoning and developmental delays.

**Findings from the Evaluation of Effective Asthma
Management Programs for Pediatric Asthma in
Michigan and for Adults in California**
7D-2

Tuesday, 1-2:30pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHB

**Michele Borgialli, Thomas W. Largo,
Courtney L. Wisinski, Wesley F. Priem**
Michigan Department of Community
Health, Division of Environmental Health

Judeth Luong, Kathy Estrada
City of Long Beach Department of
Health and Human Services

Michael Lyde
Lyde and Associates

This session will report findings from two asthma intervention programs: 1) a program for caregivers of asthmatic children in Lansing, Michigan which provided asthma education and products and services to reduce exposures to cockroaches, dust mites, mold, tobacco smoke and other triggers, and 2) an intensive, in-home asthma education and case management program for adults and senior citizens with asthma who reside in the City of Long Beach.

**How Much Is Too Much Wheeze?:
Laboratory and Field Research to Develop
a Standardized Allergen Sampling Protocol**
7D-92

Tuesday, 1-2:30pm
Room 710

Approved for CEUs by: ABIH, ACAC, NAHB

Megan Sandel, Johanna Murphy
Boston Medical Center

John Adgate
Colorado School of Public Health,
University of Colorado Denver

Sherry Dixon, David Jacobs
National Center for Healthy Housing

Gary DeWalt
QuanTech, Inc.

The session reviews laboratory and field research on allergen surface sampling with the goal of identifying a standardized, evidence-based protocol. Laboratory research examined performance (e.g., yield, precision) of three samples under controlled conditions, whereas the field research assessed the association between sampling method and surface location and the symptoms of asthmatic children living in sampled homes. The importance of metrics (i.e., concentration vs. surface loading) will also be assessed.



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<p>Mapping Neighborhood Characteristics: Utilizing GIS for Maximizing Resources and Directing Funding at the Municipal Level 7E-03</p> <p>Tuesday, 3:00-4:00pm Room 709</p> <p>Approved for CEUs by: ABIH, ACAC, NAHB</p>	<p>E. Ed Brown Jr., Thomas A. Tricot II City of High Point, North Carolina</p>	<p>This session will introduce the use of GIS technology for spatial analysis and mapping purposes. Included is a demonstration of the development of a predictive exposure model for childhood lead poisoning for any city, town, or municipal government. Learn how the City of High Point partnered with various agencies and developed a personalized model by using readily available public data. Data such as blood lead screenings, county tax assessor data, 2010 U.S. Census, and other relevant data sources to predict probable lead hazard exposure risks are all available for use.</p>
<p>New Evidence on Respiratory Health Risks from Damp and Moldy Homes and Efficacy of Commercial Fungicides for Mold Remediation 7E-1</p> <p>Tuesday, 3-4:00pm Room 702</p> <p>Approved for CEUs by: ABIH, ACAC, NAHB, NARI</p>	<p>Stephen Vesper U.S. Environmental Protection Agency</p> <p>Anupma Dixit St. Louis University School of Medicine</p> <p>William Fisk Lawrence Berkeley National Laboratory</p>	<p>This session will review new findings on the association between exposure to dampness and mold and respiratory illness. One study assessed the relationship between mold exposure, as measured by the Environmental Relative Moldiness Index (ERMI) during the first year of life and subsequent development of asthma. Another presentation will focus on the results of a meta-analysis of studies that examined the association of dampness/mold and acute respiratory infections. The final presentation will discuss research on the efficacy of commercially available chemical mold remediation products in inhibiting mold growth.</p>
<p>Key Contaminants in the Indoor Environment and Their Potential Effects on Resident Health: Results from a Literature Review and Research in Low Income Multi-Family Housing 7E-2</p> <p>Tuesday, 3-4:00pm Room 704</p> <p>Approved for CEUs by: ABIH, ACAC, NAHB, NARI</p>	<p>Patricia Fabian, Gary Adamkiewicz Harvard School of Public Health</p> <p>Jennifer Logue, Brett Singer Lawrence Berkeley National Laboratory</p>	<p>This session is for those interested in emerging research about key contaminants in the indoor environment. It will examine exposure from three different perspectives: 1) an observational study of social and physical determinants (e.g., mold, combustion by-products, environmental tobacco smoke, chemical exposures, pests and inadequate ventilation) of cancer risk-related behaviors among residents of low-income housing; 2) a model simulation of indoor pollutant (NO2 and PM2.5) exposures in public housing and key drivers of that exposure; and 3) an analysis of 77 published studies of indoor pollutant concentrations which will highlight thirty-one common air contaminants found in the home and nine pollutants classified as priorities.</p>



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**Childhood Asthma and the Home Environment:
A Summary of Current Knowledge**
7F-1

Tuesday, 4:15-5:15pm
Room 603

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

Paivi Salo
National Institutes of Health

Felicia Rabito
Tulane University School of Public Health
and Tropical Medicine

This session will focus on the current state of knowledge regarding the relationship between childhood asthma and home environmental exposures. Findings include analysis of data from the National Health and Nutrition Examination Survey (NHANES) on dust-allergen levels and sensitization status and asthma control. The session will also focus on findings from research in New Orleans on residential exposures and asthma morbidity in children and evidence of the importance of cockroach allergen exposure and asthma morbidity.

**Home Environments, Safety Practices, and
Indoor Air Quality Among Recent Mexican
Immigrant Families: A Population-Based Study**
7F-2

Tuesday, 4:15-5:15pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

Shelly Miller
University of Colorado - Boulder

Carolyn DiGuseppi, Jill Litt
Colorado School of Public Health,
University of Colorado Denver

This session addresses the safety and environmental conditions of homes of recent immigrant families from Mexico. This population-based Colorado study, using surveys, activity diaries, and home inspections, identified housing hazards, adverse environment conditions, and existing health conditions. Low cost and multi-faceted strategies and interventions to address the identified problems will also be discussed.

**The ABC's of Integrated Pest Management
in Low Income Housing: Allergens, Baits,
and Cockroach Mitigation Strategies**
7G-41

Wednesday, 1:30-3:00pm
Room 205

Approved for CEUs by: ABIH, ACAC, NAHB

Jane Malone
National Center for Healthy Housing

Beth McKee-Huger
Greensboro Housing Coalition

Michelle Sever
National Institutes of Health

Coby Schal
North Carolina State University

This session will discuss findings from a study assessing factors contributing to the adoption of an effective integrated pest management (IPM) program in low income, private housing. The session will present research on effective IPM protocols for cockroach control, and a review of IPM research funded by the National Institute of Environmental Health Sciences.



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Putting Health at the Centre of Housing Policies: Lessons Learned from England's Housing Health and Safety Rating System
7G-1

Wednesday, 1:30-3:00pm
Room 702

Approved for CEUs by: ABIH, ACAC, NAHB

David Ormandy
World Health Organization, Collaborating Centre for Housing Standards and Health

Eric Hornbuckle
U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control

This session will describe the Housing Health and Safety Rating System (HHSRS), the prescribed method for assessing housing conditions in England. The presenter will explain the methodology underlying the HHSRS, how widely differing housing hazards can be compared, and how the use of the HHSRS made it possible to develop cost benefit analyses, comparing the cost of hazard mitigation with the estimated annual cost savings to the health sector. It will be argued that the core methodology is international and could be readily adapted and adopted by other countries, such as the United States.

Stay Warm & Eat Well: Reducing Indoor Air Pollution from Cooking and Unvented Gas Appliances
7G-2

Wednesday, 1:30-3:00pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHBBPI, NARI

Brett Singer
Lawrence Berkeley National Laboratory

Jeff Gordon
University of Illinois

This session will review indoor air pollutants caused by combustion appliances and cooking; research on the effectiveness of range hoods to remove cooking-related pollutants; and findings from research on the impact of unvented gas fireplaces on indoor air quality.

Using GIS for Healthy Housing Surveillance in Los Angeles County
7H-52

Wednesday, 4:30-5:30pm
Room 603

Approved for CEUs by: ABIH, ACAC, NAHB

Timothy Dignam, Gerald Curtis
U.S. Centers for Disease Control and Prevention

Maurice Pantoja
Los Angeles County Department of Public Health, Environmental Health Division

This session will cover how healthy home hazards are addressed in Los Angeles County by the Los Angeles County Department of Environmental Health's Healthy Homes Inspections (HHI). Presenters will discuss the purpose, program methodology, statistical analysis, and key results of the Healthy Homes Inspections program.



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Building Capacity to Prevent Lead Hazards: Evaluation of Tools and Training that Make a Difference

7H-61

Wednesday, 4:30-5:30pm
Room 607

Approved for CEUs by: ABIH, ACAC, NAHB, BPI, NARI

Susan Viet

Westat

Rachel Riley

U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control

Jane Malone

National Center for Healthy Housing

This session will explore the effectiveness of a model training (lead safe work practice (LSWP) training) and a model program (Community Environmental Health Resource Center) that have been used to better protect communities and clients from lead exposure. The session will share evaluations of behavior changes observed following the implementation of these activities.

Moisture in Homes: Improving our Understanding of Sources and Interventions to Mitigate Problems and Reduce Humidity

7H-1

Wednesday, 4:30-5:30pm
Room 702

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

Maria Mauceri

Advanced Energy

Lois Arena

Steven Winter Associates, Inc.

Ellen Wells, Dorr Dearborn

Case Western Reserve University School of Medicine

Matt Berges

Environmental Health Watch

This session will discuss the effectiveness of design modifications to reduce relative humidity in low income detached homes in North Carolina and the long term efficacy (5-8 yrs. post-intervention) of mold/moisture interventions conducted in the homes of asthmatic children in Cleveland. Research that involved extensive monitoring of temperature and humidity in 60 homes in three climate zones will also be presented.

Nanoparticles and Nitrogen Dioxide from Stoves: Health Effects and Strategies to Reduce Exposure and Improve Asthma Control

7H-2

Wednesday, 4:30-5:30pm
Room 704

Approved for CEUs by: ABIH, ACAC, NAHB

Jamson Lwebuga-Mukasa

Respiratory and Environmental Exposure Consultants

Nadia Hansel

Johns Hopkins University School of Public Health

This session will focus on the cooking-related sources of nanoparticles, their significance with respect to respiratory health, and strategies to reduce concentrations in indoor air. The session will also address the importance of NO₂ and asthma morbidity in children, and findings from an inner-city study in which gas stoves were replaced by electric stoves in homes of asthmatic children to reduce NO₂ exposures.



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Home Occupant Sampling for Lead, Dust Allergens and Fungi: Significance of Home Hazard Perception and Comparative Professional Test Results

7H-04

Wednesday, 4:30-5:30pm
Room 711

Approved for CEUs by: ABIH, ACAC, NAHB, NARI

Melissa M. Thompson

Mercer University School of Medicine,
Department of Community Medicine

Mike Van Dyke

National Jewish Health

How do home test kits for allergens and fungi results compare to those of a professional assessment? This session focuses on consumer perception and attitudes about health risks in homes and community along with the effectiveness of home test kits and assessments for lead, dust allergens and fungi. Implications of the research for practices, policy and future research will be discussed.