



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Designing Culturally Conscious Sustainable Tribal Housing
4A-1

Monday, 1-2:30pm
Room 205

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

Michelle Baker
US Environmental Protection Agency

David Edmunds
Pinoleville Pomo Nation

Ryan Shelby
University of California, Berkeley

David Eisenberg
Development Center for Appropriate Technology

This session will showcase the unique design process of a Pinoleville Pomo Nation housing project. The project shows how integrating cultural values and a sense of place into the design process is an effective and meaningful approach to healthy green building. The panel will highlight how social and cultural criteria are as important as science and technological advancements for achieving sustainable living.

Can We Live Healthy/Green without Addressing Radon?
4B-1

Monday, 3-4:00pm
Room 205

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

Trudy Y. Smith
Spruce Environmental Technologies, Inc.

This session will discuss the role radon plays in our losing battle against lung cancer. Radon is the number 1 environmental killer; half a million people have died unnecessarily since the 1980's. Living green and healthy requires reducing radon levels as low as possible. The incidence of lung cancer in the US will not be reduced without designing and properly installing effective radon protection in every building across the nation. This session will describe how to properly install radon reduction systems in new construction. Installation in accordance with the green and energy conservation standards and guidelines provide effective and economical control of the lung cancer risk of radon gas in the American home. The session will describe the bonus benefit of moisture reduction from a well-designed and installed system.

Historical Persistence of Unhealthy Homes
4B-2

Monday, 3-4:00pm
Room 207

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

Carl Grimes
Healthy Habitats LLC

This session will explore how housing and health have improved dramatically throughout history, and the problems and characteristics which stubbornly persist. This brief historical review also identifies key obstacles to healthier homes. Accepted and widely used methodologies are persistently misapplied to the analysis of health and housing and which mistakenly excludes the singularly fundamental component of homes. A brief history of the shift from living in natural environments to the built environment can increase our appreciation and motivation for improving design, construction, recognition, and maintenance of healthy homes.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Promoting Health and Safety through Universal Design

4C-1

Monday, 4:15-5:15pm
Room 205

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

Jon Sanford

College of Architecture, Georgia Tech

Amy Levner, Rodney Harrell

AARP

Richard Duncan

Mace Universal Design Institute

This session will discuss the benefits of universal design (UD) in housing in promoting health and safety of all individuals, as well as the barriers to adoption of standards. This session will also describe the efforts of the Universal Design Housing Coalition (UDHC) to overcome these barriers, including presenting draft standards for UD in housing, reviewing the proposed processes for vetting and approving those standards, and the proposed program for certification of UD specialists and housing projects.

Housing Design for Autism

4C-2

Monday, 4:15-5:15pm
Room 207

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

Kimberly Steele

Arizona State University, School of Architecture & Landscape Architecture

Sherry Ahrentzen

Arizona State University, Stardust Center

This session will discuss design guidelines and recommendations for appropriate materials and finishes to use in the design of housing for persons with autism. Adults with autism are becoming more visible in our communities. Because of growing advocacy for community-living options for adults with neurobiological/cognitive conditions and because of the aging of their parents in whose homes they typically live, many are seeking to live outside traditional institutions and the parental home. Demand for homes and housing for adults with autism is projected to increase significantly in coming years. This session will present architects, builders, and housing providers with research based graphic examples to use as they are being called upon to plan, design, renovate and develop homes and residential developments that best fit the needs and aspirations of this new housing consumer.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Doing Good and Building Better Green and Healthy Homes
4A-2

Monday, 1-2:30pm
Room 207

Approved for CEUs by: ABIH, ACAC, NAHBBPI

Jaslyn Dobrahner
U.S. Environmental Protection Agency

Mike Haigh
Dallas Area Habitat for Humanity

Christina Bollo
SMR Architects

This session will use examples from two successful affordable housing developments using innovative green and healthy designs and present an EPA perspective on Green and Healthy Homes. Through a highly collaborative relationship between owner, architect, engineers, contractor and government agencies, Kenyon House, an apartment building for homeless men and women with HIV/AIDS was designed and built for LEED Platinum and Universal Design. This session will explain the process the project team utilized to create a healthy building for both the residents and the environment. This session will also offer an EPA perspective on best practices and techniques to enhance the healthiness of green homes as well as an overview of free EPA tools. Recent advances in the markets for green construction materials, products, and techniques offer today's home builders, owners and renovators a wider range of greener options than ever before. Utilizing these techniques and products to construct a green home can increase the home's energy and water efficiency, reduce its carbon footprint and operating costs, and make it a healthier place in which to live. However, not everything advertised as "green" succeeds in meeting these goals, particularly in the area of health.

Home Performance Laborer Apprenticeship: Developing Craftsman for Healthy Housing
4C-03

Monday, 4:15-5:15pm
Room 709

Approved for CEUs by: ABIH, ACAC, NAHBBPI

Jim Urtz, Gary Gustafson
LIUNA Training and Education Fund

The presentation will focus on the positive outcomes for the home owner, the environment, and the workers from the Home performance labor apprenticeship program. A skilled and educated workforce is essential to ensure the future of sustainable home building. It promotes both resource conservation and public health. Trained and certified workers possess practical skills and technical knowledge of green building concepts. Apprenticeship programs are a proven method of providing quality workforce training through a combination of classroom learning and job experience. This workshop will present the model used by the Laborer's International Union of North America (LIUNA) to prepare new workers for jobs in the emerging market for safe, energy efficient homes.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs	PRESENTER(S)	PURPOSE OR GOAL
<p>Getting Residential Ventilation Right 4C-01</p> <p>Monday, 5:00-5:30pm Room 111</p> <p>Approved for CEUs by: ABIH, ACAC, NAHB, NARI</p>	<p>Maureen Mahle Steven Winter Associates, Inc.</p>	<p>This session will explore ASHRAE 62.1 and 62.2 standards for ventilation and improved air quality as they apply to residential buildings, and present workable design and construction strategies for meeting ventilation requirements while preserving energy efficiency. Good, better, and best strategies will be presented for a variety of building types, including single and multi-family buildings.</p>
<p>Healthy Housing for Seniors 4D-01</p> <p>Tuesday, 1-2:30pm Room 205</p> <p>Approved for CEUs by: ABIH, ACAC, NAHBBPI, NARI</p>	<p>Sherry Ahrentzen, Ernesto Fonseca, Elif Tural, James Erickson Arizona State University, Stardust Center</p> <p>Matthew Fraser Arizona State University, School of Sustainability</p> <p>Kim Shea Arizona State University, School of Health Care and Nursing Innovation Stardust Center, Arizona State University</p>	<p>This session will focus on three segments of housing design for seniors. First, it will discuss impacts of indoor environmental quality (IEQ) factors (temperature/humidity, particulate matter, aldehydes) on seniors' health, and in relation to present indoor environmental standards and thresholds. Second, the session will present housing and community design factors that foster or hinder health and active aging conditions. Third, it will address assistive technologies that enhance home health care and support for seniors. For each segment, an analysis of research to date, residential examples, and recommendations will be provided.</p>
<p>Developing Brownfields 4D-2</p> <p>Tuesday, 1-2:30pm Room 207</p> <p>Approved for CEUs by: ABIH, ACAC, NAHB, NARI</p>	<p>Gabriel Cross New Axiom, LLC</p> <p>Charlie Bartsch U.S. Environmental Protection Agency</p> <p>Eugene Goldfarb University of Illinois at Chicago</p>	<p>This session will give participants the tools required to take advantage of the opportunities presented by brownfield sites in their communities. Brownfields are thought of as land with no future. Past use has left them contaminated, not fit for healthy human occupancy. However, the 'greenest' building is one that is already there, the greenest site is one that is already developed. Brownfields pose a difficult challenge, but there is help. Federal, state, and local programs are in place to help identify, fund and support the remediation of these sites. New insurance products and fixed rate services have sprung up in the private sector to help mitigate risk and improve economic viability. By learning to navigate the incentives and understand the risks, developers and builders can tackle the remediation of brownfields in our cities and towns one site at a time.</p>



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

How to Maximize Indoor Environmental Quality, Using the National Green Building Standard
4E-1

Tuesday, 3-4:00pm
Room 205

Approved for CEUs by: ABIH, ACAC, NAHBBPI

Michelle Desiderio, John Peavey
National Association of Home Builders
(NAHB) Research Center

This session will discuss how to maximize Indoor Environmental Quality (IEQ) using the National Green Building Standard (NGBS). Examples will demonstrate accruing additional points for IEQ to achieve various NGBS ratings. Findings will be presented from HUD-sponsored research that highlights the minor incremental costs to address IEQ in the overall context of green building.

Partnering to Build Healthy Communities
4E-2

Tuesday, 3-4:00pm
Room 207

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

Jennifer Schaefer
Habitat for Humanity Metro Denver

Yianice Hernandez
Enterprise Community Partners, Inc.

This session will present information on the neighborhood context, housing design and construction methods used on the project level and discuss the intended health and safety benefits to the homeowners who live there. In addition, the session will cover the significance of access to light rail and other public transportation as well as easy access to neighborhood amenities as a mechanism for improved health and elements that encourage physical activity. It will also cover the process for applying to Enterprise for Green Communities Certification, as well as similarities and differences with other green projects.

Healthy Indoor Air Quality by Design
4F-1

Tuesday, 4:15-5:15pm
Room 205

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

Michelle Roberts
Owens Corning

Paul Bates
GREENGUARD Environmental Institute

This session will communicate the importance of indoor air quality (IAQ) and empower architects, designers and specifiers to employ strategies to improve the IAQ in the spaces they are creating. The session will provide background on the impact of indoor air pollution on human health and economics. This session will also emphasize how participants can incorporate good IAQ principles into sustainable design.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

**WaterSense® Labeled New Homes:
Save Water. Save Energy. Save Money.**
4F-2

Tuesday, 4:15-5:15pm
Room 207

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

Alicia Marrs
U.S. Environmental Protection Agency

This session will focus on the U.S. Environmental Protection Agency's (EPA) WaterSense® program. As the U.S. population grows, demand on water resources increases even faster. Access to clean, safe water is critical to individual well being and health of communities, but strains on local water supplies are making it more difficult to protect this precious natural resource and save water for future generations. The session will discuss the 2009 WaterSense® Single-Family New Home Specification, its inspection procedures, and how the program can work with the National Green Building Standard TM, LEED® for Homes, and other regional green building and healthy home programs.

**Healthy Homes: Addressing Chemical
Sensitivities with Research, Design and Testing**
4E-52

Tuesday, 3-4:30pm
Room 603

Approved for CEUs by: ABIH, ACAC, NAHB

Annette K. Stelmack
Inspirit LLC
Sarah Broughton
Rowland+Broughton

This session will focus on the strategies used to design, research, document and implement a major home renovation in Colorado. The project team will demonstrate how manufacturer product information critical for health and environmental data was vetted in building a healthy home. Learn firsthand how a healthy home can support your clients' health, identifying specific tactics that enhance the indoor environmental and air quality.

Incorporating Feng Shui in Affordable Housing
4H-01

Wednesday, 4:30-5:30pm
Room 111

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

Kevin Walters
Practical Feng Shui
T K Somanath
Better Housing Coalition

This session will present concepts which will broaden the participants' perception of design. The essence of the Chinese art of feng shui is the understanding and management of subtle earth energies through the intentional selection or arrangement of physical form, both natural and man-made. The presentation will provide a brief history and examination of the elements of feng shui that are relevant in an urban design setting. A case study of a community that is being created from an abandoned lumber millwork operation will be presented. The Beckstoffer community is in the early stages of development, and will include adaptive re-use of historic buildings as well as new construction. Attendees will learn how to recognize issues of physical form that could block the potential of the residents, as well as appropriate mitigation techniques. Many elements of good design are also characteristic of the supportive energy that is the essence of feng shui.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Is it Green or Just Part of the Hype?
4H-02

Wednesday, 4:30-5:30pm
Room 113

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

**Shirley Niemeyer, Lorene Bartos,
Carroll Welte**
University of Nebraska-Lincoln

This session will provide clarity to consumers who are confused about products promoted as healthy and green, including cleaning products. Participants will gain abilities and resources to apply in their sphere of influence. The presentation focuses on identifying and understanding the issues surrounding "green living" and "green" including definitions, measures, and myths. The multiple definitions and use of "green" confuses consumers whether they are searching for ways to live healthier lives, create less environmental impact or choose healthier products. From housing and environment to products and processes, professionals need to be equipped with research-based information and product criteria. Twenty third-party certification programs will be discussed. This foundation will better equip professionals in addressing health and environmental issues within the context of evaluating "green" claims and healthy green products and materials.

**From Isolation to Integration:
Strategies for Mixed Ability Users**
4H-1

Wednesday, 4:30-5:30pm
Room 205

Approved for CEUs by: ABIH, ACAC, NAHB

Shelley Kawamura
Institute for the Built Environment

This session will discuss how the built environment has the ability to either isolate or integrate populations, especially those that are underserved, economically disadvantaged or have mobility challenges. A growing body of research suggests that social isolation and unhealthy environmental conditions may result in decreased physical and mental health, poor quality of living and shorter life expectancy rates. This presentation will highlight development trends over the past 100+ years and will provide examples of successful developments and design strategies that help to integrate people of all abilities and ages and increase their quality of life and health status. These strategies will be discussed relative to their potential for reducing resource use, environmentally damaging chemicals and mitigating carbon emissions and climate change.



TRACK 4: HEALTHY BY DESIGN

SESSION NAME • DAY • TIME • ROOM • CEUs

PRESENTER(S)

PURPOSE OR GOAL

Debunking the “Un-healthy” Myth of Factory Built Housing and Its Use as a Superior Healthy Building Alternative

4H-2

Wednesday, 4:30-5:30pm
Room 207

Approved for CEUs by: ABIH, ACAC, NAHB

Michelle Roberts

Owens Corning

Rick Terry

Pennsylvania College of Technology

This session will educate architects, specifiers, and developers on utilizing modular building systems and the role of those systems in green and sustainable design and construction. The session will describe the history and present position of modular construction within the building industry, as well as conveying the benefits of sustainable modular construction during the planning phase as a “desired” building opportunity alternative to traditional on-site construction. The advantages of the health, safety and welfare features used by modular building systems in 50 to 50 projects, and the challenges and opportunities of using modular building systems ideal for sustainable construction will be presented.