



**WEDNESDAY, NOVEMBER 9 10:30 A.M. – 12:00 P.M.**

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**New Research**

**101**

**Daylighting R & D Applied to Hospitals and Offices**

This session will discuss research methods and findings to successfully incorporate daylighting design into hospital and office planning efforts. Research performed at the Energy Studies in Buildings Laboratories at the University of Oregon and a full scale mockup for the New York Times will be the focus.

Presenters: Charlie Brown, University of Oregon Daylighting Lab  
Stephen Selkowitz, Lawrence Berkeley National Laboratory  
Convener: Eleanor Lee, Lawrence Berkeley National Laboratory

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**Business of Green**

**102**

**Green Value: A Study of the Linkage between Green Building Features and Asset Value**

"The Green Value Study, commissioned by the LEED-BC Steering Committee, examined several development projects worldwide to address the belief that "there is no relationship between the market value of a real estate asset and its green features and related performance." This study addresses the impact of a building's green features and performance upon its market value, particularly in light of proposed changes to accounting standards that will place greater emphasis on valuation and market value of real estate assets. "

Presenters: Peter Busby, Managing Director, Busby Perkins+Will  
Chris Corps, Past Chairman 2003-4 RICS Canada and Enviro, RICS Canada  
Philip Smith, Vice President, Royal LePage Advisors Inc.  
Convener: Michelle Malanca, Green Building Council of Australia

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**Government**

**103**

**It Takes a Region: How Multi-jurisdiction Organizations Can Assist Government**

"Regional entities have proven themselves to be leaders in sustainability movements. This session will showcase examples of collations, alliances, and organization that give assistance to local government in regard to the shape and facilitation of government programs and policies"

Presenters: Monica Gilchrist, Global Green USA's Green Building Resource Center  
Brian Gitt, Green Resource Center  
Elise Zelechowski, Chicago Center for Green Technology  
Rebecca Flora, GBA, Greater Pittsburgh  
Convener: Allen Lee, Quantec

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**Facility Management**

**104**

**LEED EB and Facilities Manager**



"Facility managers who face routine budget and resource reductions will learn how to use LEED Existing Buildings to refocus management on life cycle measures to make thoughtful, well-planned decisions and more sustainable buildings. Attendees will learn how to use facility data to quantify work environment improvements leading to improved satisfaction and productivity. This session is interactive so be prepared to participate in the exercises and enjoy being able to take with you a strategy for your facility. "

Presenters: Karen Roper, Georgia Institute of Technology  
Stu Carron, JohnsonDiversey  
Craig Sheehy, Thomas Properties  
Convener: Mike Army, Leonardo Academy

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### **Residential 105**

#### **Shared Passions: Affordable and Green**

"Passion about greening the affordable housing market runs deep, and it indeed may be where the need is greatest and most challenging. These professionals are making it work!"

Presenters: Jeff Oberdorfer, First Community Housing Inc.  
Walker Wells, Global Green USA  
Bruce Hampton, Elton Hampton Architects  
Erin Carson, San Francisco Redevelopment Agency  
Darren Port, New Jersey Green Homes Office  
Convener: Fred Wacker, Home Depot Foundation

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### **Greenprints 106**

#### **Atlanta: Showing the way to go green**

"The hodgepodge of unguided expansion typical of Atlanta was the dominant land-use pattern during the latter 20th century through out the U.S. For organizations and people interested in expanding or relocating in a booming area, sprawl was just something that went with the territory. It's become abundantly evident that this pattern of growth has created major, far-reaching problems. Locations once considered desirable are becoming nightmares as the very attributes that attracted companies to them in the first place are being destroyed. Workers can't operate at peak efficiency if they face two-hour commutes. Schools become overcrowded, housing more expensive and relaxation time more difficult, making it harder to attract top talent. With Atlanta topping the sprawl charts in the U.S. necessity has become the mother of invention propelling our region towards innovative solutions. Hear how Atlanta's business leaders, ULI and our regional planning commission are turning the tide of sprawl, creating cutting edge innovative smart growth models along the way. "

Presenters: Jim Durrett, ULI Southeastern District Chair, will convene a panel of green champions from the city of Atlanta.

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### **LEED 107**

#### **Investing in Sustainability: Enhancing the Bottom Line in Spec Dev**

"Can green building design and operations enhance the bottom line? These two developments, one new and one existing, have used LEED-NC and LEED-EB to substantiate their performance. Learn about the developer's and real estate manager's perspectives on how to use green design and operations to attract and retain tenants."



Presenters: Michael Haughey, Lor Carter, Amerimar Realty Management Company/Silvertip Integrated Engineering Consultants  
Joseph Cliggott, Lohan Caprile Goettsch Architects  
Daniel Jenkins, the John Buck Company  
Convener: Maren Engelmohr, Mackey Mitchell Associates

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### **Visionary**

**108**

#### **A Sense of Belonging: Biophilic Design**

"The three presenters represent today's leaders in documenting the effects of the built environment on human experience, health and well-being. They are currently collaborating on an extensive research effort that draws on the diverse fields of social ecology, psychology and real-estate development to change the way we view and design our built environment."

Presenters: Stephen Kellert, Yale University School of Forestry and Environmental Studies  
Judith Heerwagen, J.H. Heerwagen & Associates  
Ben Shepherd, Yale University  
Convener: William Browning, Rocky Mountain Institute

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### **Specialty Topics**

**109**

#### **Stormwater: H2 Oh!**

"Whether a single building or entire community, stormwater remains a constant element in design. Join this session in learning the ins and outs of stormwater management and design from leaders in the field. "

Presenters: Katrina Shum Miller, Richard Manning, Green Building Services  
Bill Wenk, Wenk Associates  
Tom Puttman, DEA  
Convener: Fred Bonci, Laquatra Bonci Associates

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### **Design and Engineering – Master Speaker**

**110**

#### **Sim Van der Ryn, Van der Ryn, Architects, Sausalito, CA**

Designing for Life is the newest lesson internationally acclaimed architect, Sim Van der Ryn, brings to the Greenbuild audience. A long-time inspiration for young architects, Sim Van der Ryn will inspire architects, designers, and constructors, to see the myriad ways they can apply physical and social ecology to architecture and environmental design. Sharing his years of experience as a teacher and using his building designs as examples, this Master Speaker will show the audience that buildings are not objects but organisms, and cities are not machines but complex ecosystems.

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### **Tools**

**111**

#### **Green Product Selection Tools: Navigating Choppy Waters**



"The focus will be on educating the audience about the range of tools, with emphasis on the pitfalls, rather than on promoting any one approach. The three experts will comprise the panel with probably a half-hour for audience interaction."

Presenters: Gregory Shank, CTG  
Henning Bloech, Greenguard  
Convener: Wayne Trusty, Athena Institute

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### International

112

#### LEED Abroad: Opportunities and Challenges

"This is a facilitated discussion, led by Professor Ray Cole, will showcase green champions who developed LEED for use internationally and those practitioners who have applied LEED. Meet the LEED Accredited Professionals of Guatemala, India, Mexico, Canada, Taiwan, and China who have adopted and adapted LEED for local projects."

Presenters: Ed Nagelkirk, Herman Miller, Inc.  
Andres Prera, 1/2ambiente  
S. Raghupathy, CII, Hyderabad  
John Motloch, Ball State University  
Stephanie Cramer, RPI  
Convener: Ray Cole, University of British Columbia

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### Building Green: Before, During and After – Master Speaker

113

#### Thomas Taylor, Alberici Constructors and Vertegy

Construction of a green building becomes the manifestation of the design and the process. This session will bring the audience to an understanding of the stewardship opportunities during the actual construction process. This Master Speaker brings a wealth of experience from being the LEED Accredited Professional on the Alberici Headquarters that earned a LEED 2.0 Platinum rating. This outstanding example of a construction company practicing what they preached did more than impact the environment of St. Louis; it changed an entire company and spun off a new enterprise, which Tom Taylor heads. Audience participants will meet and learn from a person who knows "how to."

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### Essentials

114

#### Greening of America: USGBC as a transformation tool

"The two founders of the U.S. Green Building Council will take this audience on a "tour" of the climate and challenges that form the roots of this organization. Expect David Gottfried and Mike Italiano to look back, then project the future for the green building movement and USGBC."

Presenters: David Gottfried, WorldBuild  
Mike Italiano, Institute for Market Transformation to Sustainability



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**Exhibitors**

**115**

**The Cleaning Industry and LEED EB: Challenges and Opportunities**

"LEED EB has implications for numerous industry sectors that play a supportive role in creating and maintaining the built environment. This session will focus on the supportive role that cleaning activities play in maintaining a healthy indoor environment and achieving recognition under the LEED EB. The panel is comprised of cleaning industry professionals including a consultant, manufacturer, distributor and building service contractor who will share their views on the challenges and opportunities presented by LEED EB"

Presenters: Stephen P. Ashkin, The Ashkin Group  
Robert J. Israel, JohnsonDiversey  
Grant Watkinson, Coastwide Laboratories  
George Lohnes, V.P. Marketing, UNICCO Service Company  
Convener: William C. Balek, ISSA, Lincolnwood, IL

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**WEDNESDAY, NOVEMBER 9 3:00 P.M. – 4:30 P.M.**

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**New Research**

**201**

**New Energy Metrics for Assessing Building Performance**

"An expert panel will explore alternative ways to look at building performance. This will include a discussion of using a carbon based metric to quantify impact on climate change, generalized assessment approaches that span various building types and the concept of energy intensity as an effective measurement tool for building performance."

Presenters: Scott Shell, EHDD Architecture  
Jesse Henson, Amy Hoagberg, Kyocera Solar Inc  
Paul Torcellini, NREL  
Convener: Mary Ann Piette, Energy and Environmental Technologies Division, LBNL

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**Business of Green**

**202**

**Capital Financing Out of Operating Savings**

"Two innovative approaches to project financing will be discussed. One involves public housing revitalization financed by sustainable development. The other takes a new twist on the traditional performance contracting approach, applying it to new school construction."

Presenters: Tom Kolbasenko, Tom Emodi, Neil Munro, Young+Wright Architects  
Greg Allen, Sustainable EDGE Inc.  
Mary Neumann, Toronto Community Housing Corporation  
Convener: Cheryl O'Brien, Idaho National Laboratory

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**Government**

**203**

**Getting the Most Green for the Public's Green**



"This session offers examples of creative ways governments can reduce the costs of their green buildings and minimize budget impacts of going green. Presenters from three states will discuss specific roles governments can play and processes needed in directing grant funds toward projects that promote green solutions to runoff. Emphasis will be on why private funding was needed, how it was obtained, and relevance to other government projects."

Presenters: Rick D'Amato, Steve Castellano, LPA;, Inc.  
Todd Maguire, Idaho Dept of Environmental Quality  
Tom Brown, Thomas Brown Architect

Convener: Rob Bennett, City of Vancouver

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### Facility Management

204

#### Corporate Sustainability: Building Performance for Sustainability

"Facility managers and operators overseeing multiple facilities will learn first hand accounts of implementing best practices using benchmarking, sharing procedures, and systematic audit protocols. Topics will include energy procurement, workspace design, construction materials specification, recycling, lighting systems, daylighting, and indoor air quality. "

Presenters: Mark Loeffler, Rebecca Quarno, The RETEC Group  
Brad Wolf, BP Global Property Management & Services Group  
Mark Yamauchi, Toyota Motor Sales USA

Convener: Malcolm Lewis, CTG Energetics

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### Residential

205

#### Untapped opportunities: Green Renovations and Green Interiors

"In 2003, home remodeling spending represented 40% of all residential construction activity and 2% of the US economy. Come see what today's innovative remodelers, trade contractors and interior designers are doing to not only green their respective industries, but also create new and exciting business opportunities in these untapped markets. "

Presenters: Carl Seville, SawHorse, Inc.  
Mike Rogers, MSI Consulting  
Annette Stelmack, Kari Foster, Debbie Hindman, Associates III

Convener: India Powell, Atlanta Home Improvement Magazine

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### Greenprints

206

#### Mold, Moisture and Building Science: It's not the heat it's the humidity

"It doesn't make sense to build the same way in Miami, Memphis, Monterey and Minneapolis. It also doesn't make sense to build hospitals, pool enclosures, houses and warehouses the same way. Since it rains a lot more in Seattle than it does in Las Vegas it makes rain control different in these locations. How should we design and build for all these differing exterior and interior climate situations? There are four external hygrothermal climate regions: hot-humid, mixed-humid, cold, and hot-dry. There are also four rain exposure zones: extreme, high, moderate and low. There are also three interior climate classes: warehouse, residential occupancy / office



and humidified / pressurized. This session touches on these principles of design and construction relating to climate region, rain exposure and interior climate class. The speakers will discuss where to put vapor barriers and air barriers in different climate regions. They will explain why NOT venting roofs and crawl spaces in certain climates is a good idea. And you'll hear about the best ventilation options for different climate zones - supply, exhaust, balanced, enthalpy recovery, dehumidification or humidification "

Presenters: Mike Barcik, Southface Energy Institute  
Invited speaker to be determined;  
Convener: Tom Fisher, PB Dewberry

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## **LEED – Master Speaker**

**207**

### **Ken Wilson, Envision Design, Washington, DC**

"Ken Wilson, *Contract Magazine's* 2005 Designer of the Year, has captured the industry's attention with his stunning green interiors projects. His commitment to sustainable design practices has earned a national reputation for his firm, Envision Design, and multiple LEED certifications for his clients. Join Ken to learn about his path to building a thriving green design practice and his strategy for delivering LEED-certified interiors projects."

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## **Visionary – Master Speaker**

**208**

### **Karan Grover, Baroda, India**

Inspiring and visionary are terms often related to ancient India. In his internationally acclaimed presentations, this Master Speaker teaches through stories and pictures from his ancestors. Showing green concepts and philosophies to be deeply engrained in the architecture, music, and history of his native land, this award-winning architect brings an understanding of why build green that is simple, elegant, and thought-provoking long after the presentation.

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## **Specialty Topics**

**209**

### **Teaching Sustainable Design Across the Curriculum: Examples from Four Universities**

Four innovative sustainable design education paradigms have emerged from leading institutions across the country. The presenters in this session will highlight educational models in which future green building industry professionals are gaining valuable experience working across disciplinary boundaries.

Presenters: Brian Dunbar, Colorado State University  
Charles Kibert, University of Florida  
Katy Janda, Oberlin College  
Scott Johnston: Miami University  
Convener: Boyd Dressler, Montana State University

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## **Design and Engineering**

**210**

### **Shanks's Pony or the Iron Horse? Urban infrastructure design planning**

This session will focus on the design of urban infrastructure to ensure that it is beneficial to the environment in more ways than the obvious ones.



Presenters: Ajay Singh, Metropolitan Transportation Authority Capital Construction Company  
Projjal Dutta, DMJM  
Mike Abbate, Greenworks Landscape Architects  
Steve Murray, KPFF Consulting Engineers  
Convener: Jana McKenzie, EDAW

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## Tools

211

### Early Stage Simulation

"Views from all sides on the uses of early stage simulation tools will be heard and discussed. Five early stage tools will be considered from the point of view of designer, researcher, consultant and government."

Presenters: John Breshears, Zimmer Gunsul Frasca Partnership  
Khee poh Lam, Carnegie Mellon University  
Robert Bolin, Syska+Hennesy Group  
Convener: Cathy Berlow, United States EPA

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## International

212

### A Decade of Green Building Rating Systems: Lessons Learned

"This presentation will explore issues such as how green building rating systems treat buildings differently in design and operation stages, how these systems assist users in understanding and improving their buildings, how rating systems encourage better design processes, what criteria are included and how they are measured, and other questions. The session will present a brief overview of some of these different approaches taken from a sample of countries and then will focus on a more in-depth comparison of results from assessments using LEED and the Green Building Tool (GBTool utilized by the international Green Building Challenge) for several buildings in the United States. This comparison will examine similarities and differences in the results, what we learn about the buildings from these assessments, and how the teams' application of the two approaches differed. Finally, the session will include a structured discussion to provide an opportunity for participants to describe their own experiences with rating systems in other countries, focusing on how the process and results led to different decisions and understanding of their projects."

Presenters: John Boecker, L. Robert Kimball & Associates  
Joel Ann Todd, Environmental Consultant  
Michael Holtz, Architectural Energy Corporation  
Ann Kosmal, US GSA  
Convener: Bill Reed, Integrative Design Collaborative

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## Building Green: Before, During and After

213

### Keys to Success for Construction Management: Preconstruction, Construction, Post Construction

This session will provide the audience in-sight into successful project management techniques of three of the countries leading green builders. Learn tips and techniques that will make your next project more successful.



Presenters: Keyvan Ghahreman, Holder Construction Company  
Michael Deane, Turner Construction Company  
Michael Biggs, Whiting-Turner Construction  
Convener: Brian Yeoman, Houston Advanced Research Center

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### Essentials

214

#### Researching Green: Setting the Agenda

"Two internationally recognized leaders in sustainability research will teach the basics of green research, where and how to find resources, and ultimately, their vision of the future. The audience will have a chance to ask questions in what will prove to be a lively session by Professor Vivian Loftness and Dr. David Orr."

Presenters: Vivian Loftness, Carnegie Mellon University  
David Orr, Oberlin College, Oberlin, OH

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### Exhibitors- Master Speaker

215

#### Paul Shahriari, Ft. Lauderdale, FL

Audience members who choose this Master Speaker session will learn from an overview of the major sectors of a project where utilization of technology and software can make decision making more streamlined and realistic in terms of actual benefits that each owner is using to evaluate the move to Green building. This Master Speaker believes many sectors have sold the religion of green building but without have the evidence to show owners and decision makers. This session will delve into the integration of Cost Benefits analysis software into the decision making process of LEED Credits and ultimately the level of certification. Paul Shahriari, Partner, Greenlight Strategies, will address the need for all manufacturers to clearly communicate their products contributions to the LEED effort on a project and more specifically the integration of Project Credit Calculations.

## THURSDAY, NOVEMBER 10 10:30 A.M. – 12:00 P.M.

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### New Research

301

#### Chasing Indoor Air Quality Emissions up the Supply Chain

Assessing emissions coming from building products used in an enclosed environment is quickly becoming standard practice. But how can manufacturers become better product stewards while operating in a cost-effective manner? This session will discuss how indoor air quality emissions can be traced back to individual components and oftentimes eliminated before manufacture.

Presenters: Al Hodgson, Berkeley Analytical  
Kirsten Ritchie, Scientific Certification Systems  
Jan Stensland, Kaiser Permanente  
Scott Lesnet, HNI Corp  
Convener: Kim Weller, AHSC Architecture & Consulting

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**Business of Green**

**302**

**Anticipating and Managing the Risks of Green Design: Legal Liability, Insurance and Surety Issues**

"This session will focus on risk management issues associated with large-scale projects. A better understanding of the appropriate legal, insurance and surety risk transfer mechanisms will help building professionals to convince owners, organizations and institutions that sustainable design and construction improves their bottom line and poses no greater risks, when proactively managed, than traditional projects."

Presenters: Ujval Vyas, Foran Glennon Palandech & Ponzi  
Philip Best, Gary Kingery, XL Insurance  
Bryan Seifert, Leo & Weber, P.C.

Convener: Greg Kats, Capital E

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**Government**

**303**

**The Cutting Edge in Government Green Building Activities**

"This session brings attendees up to date on the latest in government green building policies and programs. It covers the city, state, and federal levels. Participants will leave with an understanding of what it took to establish these programs and what it will take to keep them going. Focus will be on how the legislation was developed and put in place, and what is being done to ensure that it is effective. Stress what tools and information are available to those inside and outside the Federal government. Audience members will take away insights that will be useful in other locales."

Presenters: Beverly Dyer, FEMP  
John Albrecht, City of Chicago  
Rep. Hans Dunshee, Washington State Government

Convener: Ann Ludwig, StopWaste.org

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**Facility Management**

**304**

**Using LEED-EB as a Framework for Best Practices in Building Operations**

"Learn from LEED-EB users that are IFMA members, how building managers and organizations are using LEED-EB as a framework for implementing best practices in building operations. Three diverse organizations are represented. Joe May led LEED-EB implementation for the Getty Museum, Los Angeles, CA - The first building certified under the post pilot version of LEED-EB. Patrick Okamura led LEED-EB implementation for the General Dynamics facilities, Scottsdale, AZ - One of the first industrial facilities certified under LEED-EB. George Denise is leading the application of LEED-EB by Cushman and Wakefield to buildings it manages for Adobe Systems. The panel moderator Tia Heneghan of Sebesta Blomberg has helped many building teams with the implementation of LEED-EB as well as LEED-NC."

Presenters: Jim Bullock, J Paul Getty Trust;  
Patrick Okamura, General Dynamics  
George Denise, Cushman & Wakefield @ Adobe Systems Inc.

Convener: Tia Heneghan, Sebesta Blomberg

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**Residential**



**305**

**Highs and Lows of Greening Multifamily**

"From low-rise to high-rise, green multi-family projects are changing the social, environmental and economic futures of Americans. Hear military and high-rise housing experts explain the opportunities, challenges, and results they've experienced in the field."

Presenters: Rob McClellan, Torti Gallas and Partners  
Daniel Kaplan, Fox & Fowle  
Adrian Tuluca, Steven Winter Associates  
Convener: Richard Faesy, Vermont Energy Investment Corporation

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**Greenprints - Master Speaker**

**306**

**Andres Duany, Duany Plater-Zyberk & Company**

As Duany and his collaborators seek the key to a deeper revival, both in the suburbs (where, as Duany notes, most new development occurs, and should hardly be ignored) and equally in the abandoned city, this Master Speaker believes what is needed above all is a process of revival. Attendees at this session can expect to be challenged by Duany, who has sought to do more than create famous projects, like Seaside, Fl. A consummate teacher, Duany will show the audience examples of stewardship through changing modern architectural and development practices to what has now become known as New Urbanism.

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**LEED**

**307**

**Innovation on a Budget: Nonprofits Lead the Way**

Does a sustainable design success story have to cost more? Chicago's Center for Neighborhood Technology and Little Rock's Winrock International demonstrate that LEED certification can be achieved in the face of tight budget constraints. These two projects share their innovative strategies for meeting green building goals on a conventional budget.

Presenters: Jonathan Boyer, Farr Associates  
Sharon Feigon, Center for Neighborhood Technology  
Frank Tugwell, Winrock International  
Sarah Haga, Jonathan Rose Companies  
Convener: John Katrakis, John T. Katrakis & Associates

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**Visionary**

**308**

**Natural Forms**

"Drawing on existing examples in the built environment, presenters in this session will demonstrate the use of natural form in design. Using form that is inspired by nature has resulted, for these designers, in design solutions that are more innovative, responsive and ecological."

Presenters: Paul Woolford, Hellmuth, Obata + Kassabaum, Inc. (HOK)  
David Kirkland, Grimshaw  
Convener: John Mlade, Perkins + Will

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**Specialty Topics- Master Speaker**

**309**

**Diane Dillon Ridgley**

Dianne Dillon-Ridgley, a noted international speaker on Sustainability, Corporate Social Responsibility, Population, Gender and Justice issues, brings to Greenbuild an essential, fundamental message. The audience of this session will find Dianne Dillon-Ridgley, who has served humanity through a variety of leadership roles and who was appointed to the President's Council on Sustainable Development by Bill Clinton, to be an inspiring teacher. Her perspectives on the human connection and responsibilities for stewardship will draw the audience further into thoughts of the real reasons for going green.

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**Design and Engineering**

**310**

**Can your HVAC system go greener? An introduction to 'special' systems**

"This session showcases three specific HVAC technologies and their impact. Experts from three design firms will describe the systems and then answer your questions about Underfloor Air Distribution, HVAC coil condensate recovery and Radiant Heating and Cooling Systems."

Presenters: Dan Nall, Flack + Kurtz  
Theodore Mowinsky, Newcomb& Boyd  
Rod Yeoh, Omicron AEC

Convener: Allan Daly, Taylor Engineering

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**Tools**

**311**

**Are we there yet? Energy Targets**

Hitting the Target - A practical application of Energy Rating Systems. This session deals with the way in which LEED NC and EPA Energy Performance Ratings have changed the way in which we design and whether they have changed the results.

Presenters: Greg Franta, ENSAR Group  
Stephen Jurovics, The Cadmus Group  
Karen Butler, U.S. Environmental Protection Agency

Convener: Paul Mathew, Lawrence Berkeley National Laboratory

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**International**

**312**

**WGBC Sector Partner Session: State of World Green Building: A report from members of the World Green Building Council**

Green Building Councils are emerging rapidly around the world. Join this audience dialogue with leaders of existing and forming international councils to explore your questions and others such as what is a GBC, how is it beneficial and to whom, what role does it serve in the building industry, why is a rating system important and how does one come into play, how is a council created and funded, and how can individuals and organizations help support this movement. Other possible topics include the role of global companies in emerging councils; the challenges of working in varied cultures, climates and economies; and the importance of global benchmarking.



Convener: Kath Williams, World Green Building Council

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## **Building Green: Before, During and After**

**313**

### **Playing all the Roles of LEED: Owner/ Contractor/LEED AP/Tenant**

"This session will provide the audience a rare opportunity to hear from two service providers that decided to walk the walk by developing, building, and occupying LEED Certified building. These contractors have achieved LEED-NC, LEED-CI and LEED-EB on their own buildings and offices and will share their experience with you. Each presenter will provide a case study of their project for each attendee."

Presenters: Ted van der Linden, DPR Construction  
Bill Krill, Swinterton Builders

Convener: Jim Goldman, Turner Construction

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## **Essentials**

**314**

### **Green Materials: Making the Right Choice**

"This basic session on green materials, taught by two of the nation's leading experts, will help the audience develop the questions to ask when choosing green materials. Penny Bonda and Steve Loken will change the way one approaches even basic thinking about materials. Join these engaging experts if you have questions you have always wanted to ask."

Presenters: Penny Bonda, Interior Design Magazine  
Steve Loken, Loken Builders

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## **Exhibitors**

**315**

### **Vegetated Building Systems**

Vegetated Building Systems bring excitement, wonder, and sometimes fear as "green" buildings really go green. This educational session will start with green roofs but go beyond to other building components, structures, and systems effects that can be achieved by building with vegetation.

Presenters: Mark Gaulin, Tecta America Corp  
Steven W. Peck, Green Roofs for Healthy Cities

Convener: Paul Kephart, Rana Creek

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THURSDAY, NOVEMBER 10 3:00 A.M. – 4:30 P.M.

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**New Research**

**401**

**A Broad View of LCA: Plans for LEED and A Hybrid Life Cycle Assessment of the Environmental Impacts of Construction**

"Much research has been done on LCA for specific products. Can this be applied to the construction process? An innovative look at this question, and a review of the view of LCA in LEED."

Presenters: Melissa Bilec, Robert Ries, University of Pittsburgh  
Aurora Sharrard, Scott Matthews, Carnegie Mellon University  
Nigel Howard, USGBC  
Convener: Jennifer Rainey, HSMM

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**Business of Green – Master Speaker**

**402**

**Kevin Fitzpatrick, AIG Global Real Estate Investment Corp.**

Making the business case for green buildings is speculated to be the No. 1 challenge to market transformation. In this session, audience participants will have an opportunity to learn from the President of AIG Global Real Estate Investment Corp., a major market leader in development. Kevin Fitzpatrick has personally accepted the challenge of building green and leading his organization to attain the highest goals of stewardship and sustainability.

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**Government**

**403**

**Let's All Get Along--How Cooperation and Culture Change Can Make Green Building Happen in the Public Sector**

"This session provides three strong examples of how different groups worked together to implement green projects and practices. From ways to promote positive behavior regarding solid waste to an extensive residential building project, these presentations highlight how commitment and cooperation can make green work and become part of a group's culture. Emphasize partnering, cooperation, and what changes in perspective and culture occurred. Participants will learn what led to the culture change, how staff buy-in was generated, what procedure changes have resulted, and how the changes have affected contractors."

Presenters: Susan Kaplan, Battery Park City Authority  
Laura Lesniewski, BNIM Architects  
Jeff Staake, Missouri Department of Natural Resources  
Steven Clark, General Services Administration  
Convener: Bob Berkebile, BNIM Architects

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**Facility Management**

**404**

**Commissioning: Now and Forever**



"Highlighted in this session are the procedures and processes for commissioning a new facility and retro-commissioning an existing one that is LEED-EB bound. The techniques explored not only address a poor performing project but also how to make an good performer even better. The presentations will compare and contrast commissioning, retro-commissioning, continuous commissioning, and other energy conservation and management strategies. "

Presenters: Mark Miller, Evan Wyner, Strategic Building Solutions, LLC  
Greg Cunningham, Enovity, Inc.  
Convener: H. Jay Enck. CxGBS

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### **Residential**

**405**

#### **Ups and Downs of Marketing Green Homes**

"What are some of the bottlenecks that often discourage the greening of the homebuilding industry? Three researchers explore an early green leader--Village Homes, Davis, CA--and the lessons learned on barriers to implementation, diffusion, and market transformation."

Presenters: Mark Mistur, Edward Woodhouse, Kate Boyer, Rensselaer Polytechnic Institute  
Sam Rashkins, Energy Star Homes  
Convener: Jackie Benson, Benson Miles TND

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### **Greenprints**

**406**

#### **Greenbuilding Slam: A Creative Collaborative Workshop with a Deadline from Hell**

"Unlike any other session at Greenbuild, this experience will have you thinking on your feet and taking ideas home for tomorrow's projects. Spend some time doing something different James Weiner convenes an exciting ""slam.""

Presenters: A team of "usual suspects" will convene this interactive exercise.

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### **LEED**

**407**

#### **Success Stories in Commercial Interiors**

"If you're designing new office space or renovating existing building interiors, this session will provide two case studies to help you achieve LEED-CI certification. The lessons learned by these project leaders will include strategies for managing the integrated design process and meeting your project certification goals from the owner and design team perspective."

Presenters: Pauline Souza, or representative of Chong Partners  
Monica Green, Westlake Reed Leskosky  
Convener: Keith Winn, Catalyst Partners

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### **Visionary**

**408**

#### **Ethics of Green Building**



"Convened by leading thinkers in design philosophy and green building, this session will explore the question of ethics in green building today. What are the goals of the green building industry? What is the true responsibility of design professionals? What green building standards should we expect in the future?"

Presenters: J. McLennan, BNIM Architects, plus invited ethics experts

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### Specialty Topics

409

#### **The Charette Process: Dynamic Planning and Integrative Design**

"This session outlines a highly effective model for facilitating green building design and development, resulting in sustainable, cost-neutral solutions that engage project stakeholders. Participants will leave with an additional skills for developing and implementing charrette that they will be ready to employ in their work."

Presenters: Sandy Wiggins, Cosilience LLC  
Jennifer Rezeli, Re:Vision Architecture  
Convener: Muscoe Martin, WRT, Philadelphia, PA

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### Design and Engineering

410

#### **Can your structural system go greener? How Structural designers can help**

"In this session three experts will present ways that they can make projects more sustainable. These include design optimization to reduce material use, the use of recycled content material and design for disassembly."

Presenters: Mark Webster, Simpson Gumpertz & Heger Inc.  
Daniel Costello, Costello Dismantling Co., Inc.  
Matt Melcher, Lionakis Beaumont Design Group Inc.  
Lance Hosey, Envision Design  
Convener: Carla Dhillon, Lionakis Beaumont Design Group Inc.

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### Tools

411

#### **Cost Benefit Decision Making: Words and Numbers**

Making a life cycle case is important to the integration of green building strategies. This session will give hands-on information on ways to address costs and benefits of strategies from early design through completion by giving the team and client the information they need on a timely basis.

Presenters: Stephen Kirk, Kirk Associates  
Marilyn Farmer, Green Building Pages, Inc.  
Convener: Lisa Faye Matthiessen, Davis Langdon

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### International – Master Speaker

412

#### **Stefan Behnisch, Behnisch, Behnisch & Partners**

As an international leader in green building design, this Master Speaker brings examples of projects that have inspired young and experienced designers around the world. Stefan Behnisch himself has been a student and a



teacher of sustainability through projects that are technically and aesthetically recognized as front runners in stewardship of resources and culture. This session will showcase many projects that teach green.

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### **Building Green: Before, During and After**

**413**

#### **The Real Point--not Points**

"Drawing from experience with scores of LEED projects, both successful and not so successful, these experts identify the factors that lead to truly sustainable projects--not just LEED points."

Presenters: Heather Rosenberg, CTG Energetics, Inc.  
Fiona Cousins, Arup  
Convener: Rives Taylor, Gensler

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### **Essentials**

**414**

#### **Growing Up: LEED Foundations, Frustration, and Fun**

"Known as the founding father of LEED, Rob Watson will engage the audience with his lively stories from the beginning of LEED. Rob and friends have been there through LEED launch to today's international interest and uptake. This session is an opportunity to understand the underpinnings of the rating system and the vision that will drive the future."

Presenters: Rob Watson, Natural Resources Defense Council and friends

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### **Exhibitors**

**415**

#### **Selling Your Green Products: From Basics to the future**

Selling any product takes knowledge, experience, and personality. Selling a green product takes more. It takes education and expertise and the ability to teach your clients about sustainability. This session will show everything from the basics to sophistication in ways of selling green products. Use of the Construction Specifications Institute resources will enhance this presentation, given by experts in the field.

Presenter: Susan Piguet, Crosier Company  
Ross Spiegel, Fletcher-Thompson, Inc.  
Paul Bertram, PRB Design, Orlando, FL

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## **FRIDAY, NOVEMBER 11 8:00 A.M. – 9:30 A.M.**

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### **New Research – Master Speaker**

**501**

#### **Dr. Don Aitken, Don Aitken Associates/ Union of Concerned Scientists**

Setting the research agenda of the future requires understanding of the past, an openness to new ideas, concepts, and solutions. As a former senior staff scientist at the Union of Concerned Scientists, Dr. Don Aitken was instrumental in the research and development of sustainability issues, such as a market-based approach to



give renewable energy resources a level playing field when competing with fossil fuels. Audiences in this session will hear Dr. Aitken's perspective on present and future challenges in the research arena that will arm decision makers as stewards of the environment and green building world.

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### **Business of Green**

**502**

#### **Developers Marketing Green: How Do They Do It?**

"Why do developers risk their money on green projects, and how do they get a return? Four invited experts from around the country discuss their experience marketing green developments, and how they make the business case for green buildings. Hear about the changing nature of the market for green speculative development. Put your questions to Jack Cottrell, Workstage, LLC, Scott Eaton, Principal at Gerding/Edlen; and the team of Hamilton Hazelhurst, AIA, Real Estate Development Manager and Ada Healey, VP, Vulcan Real Estate."

Presenters: Jack Cottrell, Workstage, LLC  
Scott Eaton, Gerding/Edlen  
Hamilton Hazelhurst, Ada Healey, Vulcan Real Estate  
Convener: Jerry Yudelson, Interface Engineering, Inc., Portland, OR

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### **Government**

**503**

#### **Having the Right Tools: Tools to Help Government Make Building Green Easier**

"Attendees will learn about locally developed tools to facilitate green building projects. One is a set of policy tools for procurement of green products and materials; the second is a tracking and assessment tool for city green building projects. Presentations will provide useful pointers for others who want to apply similar tools, followed by an audience-driven discussion on other tools."

Presenters: Rich Chien, San Francisco Department of Environment  
Bharat Patel, DMJM  
Mark Palmer, San Francisco Department of Environment  
Convener: Punit Jain, Cannon Design

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### **Facility Management- Master Speaker**

**504**

#### **Dr. James W. Wagner, President and Michael J. Mandl, CEO, Emory University**

Campus leaders who have made a public commitment to sustainability can teach others by word and example. Emory University, led by President Dr. James W. Wagner, has garnered the attention of more than green designers and constructors with their unprecedented number of LEED-certified buildings. The university's policies and practices in facilities development, operations, and management have been noted around the world. This session will be a true case study of how to make substantial movement toward sustainability as Dr. Wagner is joined by the Emory's Executive Vice President who has shepherded the LEED projects as well as the implementation of best practices in planning, building, and operations of multiple buildings.

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### **Residential**



505

**Integrating Research & Design for Homebuilders**

"This is a "how-to" session presenting down-to-earth strategies for key green building attributes that builders and architects can put into place right away to improve the way they design, build, and sell Green building – and to avoid the pitfalls of those who have gone before them. "

Presenters: Peter Pfeiffer, Barley + Pfeiffer Architects  
Peter Yost, 3-D Building Solutions, LLC  
Convener: Robin Vieira, Florida Solar Energy Center

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**Greenprints**

506

**America's Retail Goes Green: Lessons from three major retailers**

"Retail is more bottom line and first cost driven than any other market sector - most retailers have inflexible cookie cutter building, lighting and materials criteria based on the "time is money" principal. The traditional financial structure of retail leases makes LEED standards and sustainability in general difficult. Representatives from Home Depot, IKEA and Melaver's Abercorn Commons Strip Mall will demonstrate the challenges and successes in changing the big box to green."

Representatives from Home Depot, IKEA, and Melaver's Strip Mall will be convened by Ken Potts, Target

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**LEED**

507

**After the Plaque: Post-Occupancy Performance of LEED-NC Certified Projects**

Want to know how LEED-NC certified projects perform? This session presents findings from two studies collecting post-occupancy evaluation data and energy usage data from LEED-NC certified projects. Come learn what these studies have learned about the performance of these buildings from their occupants and owners.

Presenters: Charlie Huizenga, Leah Zagreus Center for Built Environment  
Bill Von Neida, US EPA  
Tom Hicks, USGBC  
Convener: Gunnar Hubbard, Fore Solutions

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**Visionary**

508

**Design Psychology for Green Design: Protecting Your Number One Investment**

"As green building practitioners we often overlook that the most financially beneficial component of green design is the positive psychological response of the occupant. Susan Painter a renowned design psychologist will share her research that suggests a worker or student's emotional reaction to a space is the measure of good design. Workplaces of the not to distant future are including interior design wellness amenities to help keep employees healthy and happy. We're seeing innovative integration of the outdoors, daylight, computer hoteling, and individual thermal control. Workflow and communications heightened by furnishings, floor plan and technology is a major feature of the green and healthy workspace. Join Susan Painter as she shares the unique contribution that design psychology is making to green design, which she says, ""is recognition of the critical contribution emotion makes to people's response to a space."" The general human response to the physical environment, Painter says, is both powerful and inextricably linked to wellness and our evolutionary history.



Carlie Bullock-Jones of TVSA, Interior Designer of the first LEED CI Platinum project will set the green stage for how design psychology is a keystone element of the best green designs."

Presenters: Susan Lee Painter, AC Martin Partners  
Carlie Bullock-Jones, Thompson, Ventulett, Stainback & Associates  
Convener: Gail Vittori, Center for Maximum Potential Building Systems

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### Specialty Topics

509

#### Greening Small Facilities: LEED projects that work

"Experienced ""LEED-ers"" compare and contrast experiences and results of PNC Branch Bank projects plus two NRDC projects that earned high certification levels."

Presenters: William Leddy, Leddy Maytum Stacy Architects  
James Jenkins, GCI Contractors  
Gary Saulson, PNC Bank  
Convener: Martha Jane Murray, The Wilcox Group

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### Design and Engineering

510

#### 21st Century Meets 20th century: Mies van der Rohe's Crown Hall and Eisenman's Wexner Center

Updating existing buildings to meet twenty-first century needs is a powerful way to conserve both materials and our architectural heritage. This session looks at two case studies: the renovation of Mies Van Der Rohe's Crown Hall at IIT and the renovation of the Eisenman's Wexner Center in Ohio.

Presenters: Rico Cedro, Krueck & Sexton Architects  
Donna Robertson, Illinois Institute of Technology College of Architecture  
Nico Kienzl, Atelier Ten, New York, NY;  
T. Gunny Harboe, McClier  
Neil McClelland, Arup  
Convener: Mary Ann Lazarus, HOK

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### Tools

511

#### Energy Analysis tools and their uses

"There are a large number of energy tools available to designers. The selection of the right tool depends on the results expected, the stage of design and the technical background of the user. This session describes a number of tools and their applicability."

Presenters: Don McLean, IES  
Doug Schroeder, SBIC  
Brenda Morawa  
Convener: Sean Timmons, Timmons Design Engineers

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### International



512

**Residential Construction in Australia, UK**

"The issue of housing growing populations challenges the entire world. In these residential projects one can find some possible answers to the quandary. Discussed during this session will be the Gifford Eco-house from the UK and a GreenStar rated housing project in Victoria, Australia, that earned 5 stars."

Presenters: The Hon. Tom Roper, Climate Institute  
Craig Wheatley, IES LTD  
Convener: Helen Kessler, HJKessler Associates, Inc

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**Building Green: Before, During and After**

513

**ASLA Sector Partner Presentation: Achieving Sustainable Sites: An Advanced Approach to a Complex Challenge**

This interactive session invites you to respond to a new proposed framework to encourage and reward site sustainability from a broader perspective. Past major efforts for encouraging and rewarding site sustainability have focused on buildings, building interiors, and the environments that buildings immediately impact. This fall's Austin Summit produced a framework for advancing sustainability goals in order to more fully address watershed health, biodiversity, human wellbeing, and other desirable outcomes specifically related to site development choices. Understanding ecological systems and the need to sustain their performance is at the heart of this approach.

The Austin Summit, hosted by the American Society of Landscape Architects (ASLA) and the Lady Bird Johnson Wildflower Center (TWC) in September 2005, convened a core of multidisciplinary practitioners, advocates, and scholars with a wide range of expertise. The Summit participants framed questions and added depth to a discussion that has been gaining momentum in an array of sectors and disciplines nationwide. Now, and for some time in the future, this working framework must be expanded, refined, and fleshed out.

Can sustainability be evaluated beyond system components? Is it possible to meaningfully evaluate the performance of a site system within its larger context? How can this approach advance the effectiveness of LEED standards and other USGBC tools?

What opportunities are there to expand stewardship of landscapes as the matrix in which buildings exist and operate? Please lend your ideas to this important discussion.

Presenters: April Phillips, April Philips Design Works  
Meg Calkins, Ball State University, Department of Landscape Architecture  
Patrick Curran, SWA Group  
Debra Guenther, Mithun  
Linda Moery, National Park Service  
Heather Venhaus, Lady Bird Johnson Wildflower Center  
Convener: Mike Abbate, Green Works, PC

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**Essentials- Master Speaker**

514

**Bill Valentine, Hellmuth, Obata + Kassabaum, Inc. (HOK)**

As President of Hellmuth, Obata + Kassabaum (HOK), this Master Speaker will led the audience in an exciting and thought-provoking session on the essentials of green building. Aimed specifically at new learners of sustainability, this session will emphasize the lessons every practitioner should know if the shared mission of



sustainability is to be achieved. Learning from one of the early and strongest market leaders will be the highlight of this session as Bill Valentine brings inspiration and lessons learned from the trenches.

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### Exhibitors

515

From Landfill to Living Room: Growing the Market for Recycled Materials

Recycling is one of the most common ways people embrace stewardship in their daily lives. Whether because of concern for the environment, legislation or social pressure, many of us regularly recycle everything from soda cans to batteries to newspapers.

But how well does recycling work? That is, do we have sufficient markets for all of the products we carefully sort and place in recycling bins? Too many mountains of unused recycled newsprint, glass and plastic stand as reminders that it is not enough to simply throw items into a recycling bin and say this stops the overwhelming solid waste problem that is clogging landfills across the country and around the world.

For recycling to truly allow us to “live with proper regard and respect for the rights of other individuals and the environment,” we need to address not only the supply side, but the demand side. How can we make products that excite customers - people who may or may not care about being “green” - in a way that is compatible with the idea of stewardship? Our companies do this by 1)choosing the right recycled materials 2)employing the right manufacturing processes 3)creating an internal culture of sustainability and stewardship and 4)creating new design materials that grab attention due to their looks and unique properties as well as their recycled content. This presentation will provide examples of what we’re doing in materials, manufacturing, culture, and products.

Presenters: Miranda Magagnini, IceStone  
Talley Goodson, 3 Form  
John Marckx, Oceanside Galsstile  
John Stein, Kirei  
Convener: Rosie Hydes, Keen Engineering

## FRIDAY, NOVEMBER 11 10:00 A.M. – 11:30 A.M.

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### New Research

601

#### Post Occupancy Research and Evaluation of Green Buildings

Post Occupancy Research of Green Buildings is a valuable tool to help assess the real value to a building owner or tenant. Presenters will discuss evaluation of two LEED building in the City of Seattle after an overview of a national research effort that focused on organizational productivity.

Presenters: Lucia Athens, Seattle Public Utility  
Barbara Erwine, Paladino and Company  
Elizabeth Coles, Stephen Hundley, IUPUI  
Marc Drizin, Performance Assessment Network



Convener: Katy Janda, Oberlin College

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## **Business of Green**

**602**

### **The Business Case for Green Building**

"The session covers two approaches to accounting for sustainability in a business case. The proforma approach focuses on a proposed project and quantifies costs, expenses & revenues of a sustainable solution over time. Conversely, another approach is described which focuses on the costs of a non-sustainable solution and compares them to those of a sustainable solution."

Presenters: Alan Scott, Green Building Services  
Barbra Batshalom, the green roundtable  
Convener: Liana Kallivoka, Austin Energy

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## **Government – Master Speaker**

**603**

### **Mark Ginsberg, U.S. Department of Energy, Energy Efficiency and Renewable Energy (EERE)**

Since the beginning of the USGBC, Mark Ginsberg has been an inspiration and tireless supporter of doing the right thing. As a Senior Executive Board Member, U.S. Department of Energy, Energy Efficiency and Renewable Energy (EERE), this Master Speaker is a leader in shaping the policies and procedures that influence the U.S. government. The audience for this session will have an opportunity to hear firsthand the role the U.S. government has taken and could take as stewards of natural resources and the environment. Always an engaging presenter, Mark Ginsberg's insights will allow the audience to see a place for themselves in changing the way the government acts and reacts to green building.

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## **Facility Management**

**604**

### **Implementing Green Facilities Management**

"This panel of distinguished speakers bring together facilities with four distinct missions; large government, a non-profit, research university, and international development. They will showcase models on how green practices and standards are institutionalized. The panel will interact with attendees to discuss successes and problems, and highlight goals and needs for the immediate future. "

Presenters: Arthur Weissman, Green Seal, Inc.  
Michael Langone, Joseph Eichenlaub, Pentagon, Washington Headquarters Services, Defense Facilities Directorate  
Charles Restivo, UNICCO (representing National Geographic Society)  
Ken Capezzuto, University of Miami  
Nino Fleri, The World Bank  
Convener: Steven Piguet, Steven Piguet AIA

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## **Residential – Master Speaker**

**605**

### **Pam Sessions, Hedgewood Properties**



Home designers and builders have significant stewardship opportunities as they shape American families and life through the communities they develop. This session, showcasing one of America's forward-thinking home builders, will give the audience ideas for how they can make a difference by the decisions they make and the actions they take.

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### Greenprints

**606**

#### **Top 10 Ways to Design Green K-12 Schools**

"Hear from this dynamic committee of designers and school administrators the down and dirty, quick and easy, top ten ways to design a better school! Charles Eley, Executive Director Collaborative for High Performance Schools, So your community isn't ready for high performance green schools yet – there are many steps to getting there and the nation's schools districts are spread up and down the green path, some further along than others. In this interactive session find allies, get some tips and gather resources from the folks who have pioneered the way just ahead of you. Hear what LEED tools they are working on and give them input on what else you may need to succeed."

Presenters: Jyoti Sharma, Wake County  
Charles Eley, Collaborative for High Performance Schools  
Convener: Bob Kobet, Sustainaissance International Inc.

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### LEED

**607**

#### **Easing the Way: Successfully Managing LEED-EB Certification**

Put your operations data to work by using facility management software programs to expedite the LEED-EB certification process. Learn about these tools and their applications from software experts and facility managers operating LEED-EB certified buildings.

Presenters: Marc Retish, NorthWrite Inc.  
Krishnan Gowri, Pacific Northwest National Laboratory  
Joe May, J. Paul Getty Center  
Convener: Elaine Aye, Green Building Services

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### Visionary

**608**

#### **Rooted Design: Cultural Preservation**

"Whether making the connections between people, places and events or relaying cultural values in sustainable design, this session is designed to revere the importance of our past in decisions regarding our future. The presenters in this session will tell two stories of the relevance of cultural heritage in sustainable design."

Presenters: Laurie Zapalac, Overland Partners  
James Stone, Group 70 International  
Convener: Rick Archer, Overland Partners

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### Specialty Topics

**609**

#### **The Future of Green Building - Report from the Press**



"In the age of information, few organizations are better positioned to report on the future of green building than industry media outlets. In an interactive discussion, editors of leading publications will discuss the progress of green building to date and reflect on where this industry is heading."

Presenters: Alex Wilson, BuildingGreen, Inc.  
Rob Cassidy, Building Design & Construction  
Michelle Hucal, Environmental Design + Construction  
Deborah Snoonian, Architectural Record  
Greg Zimmerman, Building Operating Management Magazine

Convener: Traci Rider, Alliance Architecture

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### Design and Engineering

610

#### Facades of the Future

"Recent and new approaches to building envelope design including the cost/benefits of double skin facades, advances in glazing and development of building envelope guidelines. This session will provide resources, tools, and case study examples with proven results."

Presenters: Robert Clarke, Robert S. Clarke & Associates  
Byron Stigge, Buro Happold

Convener: Maurya McClintock, Arup

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### Tools- Master Speaker

611

#### Carol Bartz, CEO Autodesk

Completing any job finds support or hinderance in the tools and technologies developed and available for use. This session will give the audience an unparalleled opportunity to learn from the CEO of a market leader in tools for design and construction, Autodesk Inc. In a recent white paper on Sustainability, the company detailed their opportunities in the support relationship necessary for the delivery of LEED and green building projects. Carol Bartz, known as a thought-provoking leader and speaker, will show how the company is taking a leadership position through development of building information modeling tools and what prospects there are for tools of the future.

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### International

612

#### China: From Master Planning to Core and Shell

"In China ""cradle to cradle"" land-use master planning is being used to introduce both a replicable framework and a viable model of sustainable development. The Plan seeks to redefine cities in ways that can realize a truly sustaining future. A second presentation shows how LEED-CS can be applied in China. Both presenters will focus on two projects that demonstrate a new way of thinking."

Presenters: Diane Dale, McDonough  
Eric Yupeng Huang, Albert Chan Kain Bon, Shui On Land Ltd.

Convener: Nellie Cheng, WGBC

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**Building Green: Before, During and After**

**613**

**The Owner as Environmental Steward**

"When the owner drives the project, how are process and outcome affected? The Natural Lands Trust and Toyota, both proud of being good environmental stewards, discuss the processes that produced their green and sustainable buildings."

Presenters: David Ade, Susan Maxman & Partners Architects  
Diana Mosher, Contract Magazine  
Sally Wilson, CB Richard Ellis  
Sanford Smith, Debra Okamoto, Toyota

Convener: TBD

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**Essentials**

**614**

**Shifting Our Collective Mindset: Deep Questions of Stewardship**

"This lively session with charette experts, Gail Lindsey, Bill Reed, and Nadav Malin will raise the fundamental questions every practitioner should explore in the quest for sustainability."

Presenters: Gail Lindsey, Design Harmony  
Bill Reed, Integrative Design Collaborative  
Nadav Malin, Environmental Building News

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**Exhibitors**

**615**

**High Performance HVAC: Design and Operations Strategies for Better Indoor Environments**

How do I go about designing a high performance HVAC system for my specific application to achieve maximum efficiency, superior indoor air quality and the least environmental impact? The answer is that an in-depth design analysis of the HVAC system should begin at the onset of your building project. This two-part session will involve experts discussing a practical approach to designing high performance HVAC systems, that starts from the onset of a building project, creates synergy between the environment, the building and its services to achieve high performance that can reduce costs and deliver tangible and intangible returns over the life of the building.

The second presentation will explain how the ASHRAE Technical Committee on Building Owning and Operating Costs has identified the use of life-cycle analysis as a preferred methodology for evaluating alternative HVAC system designs and system retrofit opportunities. For engineers and system designers, the benchmark data can be a valuable tool in providing feedback on the performance of a specific system design, and help in identifying preferred system types for any given application. This presenter will describe one company's approach including defining the parameters used to measure an "effective" HVAC system, the methodology for collecting and evaluating the data, and the results of evaluations to date.

Presenters: Joseph Watson, E3 Designs  
Carol Marriott, Julian deBulles, McQuay International

Convener: Richard Johnson, Fisher Hamilton