

# green energy conference SUSTAINABLE KC 2010

APRIL 8, 2010

performance financing technology design construction

## register

The **SUSTAINABLE KC 2010 Green Energy Conference** brings together construction, engineering, design and facilities professionals for a one-day conference exploring the realities of optimizing energy use, applying renewable energy strategies, and navigating the growing sustainability construction market.

April 8, 2010  
7:30 am - 5:00 pm

Event Location:  
**IBEW Training Center**  
303 East 103rd Terrace  
Kansas City, Missouri 64114

AIA, USGBC, IBEW Members \$99  
Non-Members \$149

Registration deadline: April 2, 2010

Register online: <http://www.aiakc.org>

Payable by credit card online or by check to  
AIA Kansas City / 1801 McGee, Ste. 100 / KCMO 64108

Questions?

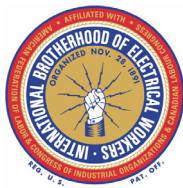
Call AIA Kansas City at 816.221.3485



AIA CONTINUING EDUCATION CREDIT  
AIA/Kansas City is registered with the American Institute of Architects Continuing Education System (AIA/CES). Attendees will receive 6 Sustainable Design HSW Credits.

## sponsors

Event Hosted by:



Local Union 124

Co-Sponsors:



# schedule

Registration + Coffee 7:30 - 8:30 am

Welcome + Opening Remarks 8:30 - 8:45 am

Opening Keynote 8:45-9:30 am

## ***The What, Why & How of Going Green***

***Bernie Kotlier IBEW-NECA LMCC, California***

The buzz around green is often noisy and confusing. Is there an adequate return on investment? Where do I start? What approaches and technologies are appropriate? As an introduction, this presentation summarizes the forces driving the new green energy imperative, ordered practical steps to implementation, and measuring the benefits that can accrue.

Break 9:30 am

Breakout Sessions 9:45 - 10:55 am

## ***Theoretical and Real World Liability of Green Building***

***Julie Taylor, Esq. Sonnenschein Nath & Rosenthal LLP***

In this short session, we will look at some of the claims that have stemmed from green building and discuss how they could have been prevented or mitigated. We will also look at areas where liability is likely to increase in the future. Finally, we will review the limits of professional liability insurance and take a look at a few of the "green" insurance products on the market.

## ***Navigating the New LEED Green Building Rating System and its Impact on the Electrical Industry***

***Ryan Evans Henderson Engineers + Ted Odell Mark One Electric***

This will be a panel discussion and will include the presentation of a brief but comprehensive introduction to the LEED New Construction Green Building Rating System. The new JE Dunn Headquarters in Kansas City will be discussed by the panel which will include Ted Ewbank, Mark One's General Foreman on the JE Dunn Headquarters, the latest LEED certified project Mark One has completed.

## ***Evaluating Existing Buildings for Sustainability Upgrades***

***Ken Riead Hathmore Technologies + Mike Gillaspie NCARB LEED AP Zimmer Real Estate Services***

Architects, engineers, contractors and developers are becoming fairly adept at designing and constructing a new generation of greener, more energy efficient new buildings. However, the vast inventory of existing buildings poses a significant challenge to design and implement sustainability upgrades, but also a significant opportunity for new jobs, operational savings, and a reduction in carbon footprint. Evaluating existing properties, designing a retrofit program, and implementing the program calls for both a different approach and a new workforce trained for a new wave of green jobs. Case studies will be used to discuss the decision making process and the unique challenges of evaluation, design, and financing of sustainability upgrades, and a systematic approach to implementing green retrofits will be discussed.

Break 11:00 am

performance

financing

Breakout Sessions 11:15 - 12:25 pm

**Green Incentives**

**Bob Solger** *Energy Savings Store* + **Dave Wagner** *KCP&L*

This session will go over the various financing opportunities for a sustainable project. Bob will discuss Renewable Technologies including Wind/Solar, Geothermal Heat Pumps, Utility Net Metering / Power Purchase / Rebates, RECs / LEED and Tax Incentives. Dave will discuss savings on the utilities side including Commercial and Residential Rebates, Demand Response Incentives, Utility Rate Options, Tax Incentives and Resources.

**SMART GRID Applications in Residential & Commercial Buildings**

**Walter Barnes PE** *Burns & McDonnell*

This presentation to show how the application of Smart Grid Principles will help society save energy, cut our carbon foot print and integrate renewable generation into our daily lives. It will also address the kind of measures that will need to be done to maximize the advantages that Smart Grids can achieve

**Getting the Most Out of PV Solar and Wind Renewable Energy Systems**

**Bernie Kotlier IBEW-NECA LMCC, California** + **Susan Brown** *Energy Savings Store*

This session will focus on load, sizing, and design issues that impact the short and long term performance and affordability of photovoltaic and wind generation systems. A number of specific PV and wind project examples will be presented to demonstrate the importance of good design, sound engineering, and expert installation.

Catered Lunch 12:30 - 1:00 pm

Panel Discussion 1:05 - 1:45 pm

**Sustainable Civic Architecture**

This will be a multi-disciplinary presentation by the design and construction team of the KCMO Vehicle Processing Facility, the latest project constructed for the City of KCMO to seek LEED certification. The previous collaboration of el dorado inc and the City yielded the award-winning LEED Gold KCMO Vehicle Impound Facility on the same site.

*Panelists include:*  
 architect **Dan Maginn AIA LEED AP** *el dorado inc*  
 owner **Eric Bosch AIA** *City of KCMO*  
 contractor **Corey Bowman LEED AP** *Feyerherm Construction*  
 engineer **Katrina Gerber PE LEED AP** *BGR Engineers*

## schedule

Presentation 1:45 - 2:30 pm

### ***In Pursuit of the Living Building Challenge: Omega and the Power of Zero***

**Laura Lesniewski** AIA BNIM

The Living Building Challenge, issued in 2006 by the Cascadia Region and U.S. Green Building Councils, seeks to achieve true sustainability in the built environment. By issuing sixteen prerequisites - such as Net Zero Energy, Net Zero Water, and a Red Materials List, the Challenge pushes owners, designers, and builders to close the loop on building systems and zeroing in on a building's negative impact on the environment. Laura will review the imperatives of the Living Building Challenge and share stories from the front line of the Omega Center for Sustainable Living in Rheinbeck, NY.

Break 2:30 - 2:40 pm

Closing Keynote 2:45 - 3:30 pm

### ***Feature Keynote Speaker***

**Greg Searle** One Planet Communities + BioRegional

Reception hosted by **Boulevard Brewery** 3:30 - 5:00 pm

## bios

Bernie Kotler is the Director, Green Energy Solutions, IBEW-NECA / LMCC, California. Bernie develops, promotes and delivers green energy training for electricians and business development programs for contractors in California including energy auditing, energy efficiency, and photovoltaics. Bernie is a member of the California Public Utilities Commission Advisory Committee on Energy Efficiency Workforce Development and the PUC Working Group on Lighting. He also serves as Co-Chair of the California Advanced Lighting Controls Training Program (CALCTP). Prior to LMCC, Bernie directed business development for Solectria Renewables in the Western US.

Julia Taylor is an attorney at Sonnenschein Nath & Rosenthal LLP specializing in a wide range of real estate matters on a local, regional and national basis. Ms. Taylor is one of the few LEED® AP attorneys in Kansas and Missouri; her accreditation, expertise and experience allows Ms. Taylor to efficiently and effectively aid clients with the legal aspects of sustainable building design, renovation, construction and operation, from negotiating the design contract to drafting the building leases.

Ryan Evans, PE, LEED AP is a sustainable design engineer for Henderson Engineers of Lenexa, Kan. Professionally, Mr. Evans has focused on improving energy and air quality in commercial and residential buildings. Mr. Evans is a charter member of the local US Green Building Council chapter. As a long time volunteer for the US Green Building Council, Mr. Evans currently serves on three national committees. He also recently co-founded the New Orleans-based non-profit Historic Green with three other Kansas Citizens. Historic Green volunteers provide sustainable design and construction services to a historic Lower Ninth Ward Neighborhood struggling to rebuild after hurricanes Katrina and Rita.

Ted Odell, LEED AP is a project director with Mark One Electric Company. Throughout Ted's 25 years in the construction industry he has worked on a wide variety of projects, with an emphasis on retail and corporate/commercial buildings. Ted has been designated a design-build professional by the Design-Build Institute of America and is LEED Accredited. He is extremely skilled at coordinating with multiple trades and creating a team atmosphere with a common goal: a successful project.

Ken Riead is the Senior CEM/CDSM at Hathmore Technologies. He is a recognized expert in the fields of energy conservation, renewable energy and environmental preservation for over 30 years. His focus has been on promoting education for both consumers and professionals and he has developed and offered energy & environmental courses in person and online. Ken is proud to have been the regional Residential Green Building Advocate (LEED® for Homes Advocate) during the rebuilding of Greensburg, KS and he is now offering assistance to the Green Zone of Kansas City. Ken has both Public Relations and Solar Energy Engineering degrees.

Michael Gillaspie, NCARB, LEED AP is the Director of Sustainability at Zimmer Real Estate Services. As a licensed architect, Michael has over 25 years of experience in commercial project design and development. As a designer, he has been involved with several large, complex developments including the International Terminal at O'Hare Airport, the Hoechst Marion Roussel Campus in Kansas City, and the Sprint World Headquarters Campus in Overland Park, Kansas. Design for energy efficiency has been an important aspect of his career, and broader sustainable design issues have been a particular focus for the last 10 years of his design, development, and speaking activities.

Bob Solger is the owner and principal of The Energy Savings Store, serving the metropolitan areas of St. Louis and Kansas City, as well as the outstate areas of Missouri and Kansas. Mr. Solger's wide range of experiences and passion for solar and wind solution to bring his skills and expertise to his clients. His company specializes in the design of building integrated renewable energy systems, and he has participated in several U.S. Green Building Council (USGBC) projects in both Kansas City and St. Louis, which have achieved LEED Platinum and Gold Certifications.

Dave Wagner, CEM is the Manager, Commercial & Residential Channels for Kansas City Power & Light. Dave works in KCP&L's Energy Solutions Department where he is responsible for managing the interaction and support of channel trade allies, including architects, engineers and contractors; related to energy end use products, services and solutions for commercial and residential buildings. His group works with trade allies on KCP&L's Commercial Rebate Program for energy efficiency measures installed in new and retrofit construction. He has 28 years experience with KCP&L in the areas of energy end use analysis, HVAC systems, electric tariffs and energy efficient technologies.

Walter B. Barnes, PE has over 40 years of experience in the Energy and Construction Business in Kansas City Area. Walt has a mechanical engineering degree from KU and is a professional engineer in Missouri, Kansas and Nevada. He started his career as an energy consultant for KCP&L and along the way worked and owner a design build mechanical contracting business, spent several years in geothermal design and installation and the last 12 years in the ESCO business with Viron and then Burns & McDonnell.

Susan Brown is the Vice President of Sales and Marketing at the Energy Savings Store, ensuring that customers get every financial incentive available. Susan holds a degree in Finance from the University of Missouri in Columbia and her professional experience includes sales and management with a national consumer products company. She's become an expert on how homeowners, businesses and non-profits can get the fastest payback possible by taking advantage of federal, state and local incentives – including grants, tax credits, depreciation and utility rebates.

Dan Maginn, AIA is Principal with el dorado inc in Kansas City, Missouri. Since its inception in 1996, el dorado has utilized a collaborative approach to define and solve architectural problems of all scales. Their AIA award-winning work and public art collaborations have been featured in numerous regional and national publications.

Eric P. Bosch, AIA is the City Architect for the City of Kansas City Missouri and has been instrumental in the successful planning, designing and constructing of numerous buildings and facilities for the City of Kansas City, Missouri, as well as for many client departments. Eric is a leader for the City of Kansas City in projects that have received certification from the US Green Building Council.

Corey Bowman is the LEED coordinator, estimator, and project manager for Feyerherm Construction, Inc., a small general contracting firm that has been in business since 1989. Corey has been with Feyerherm Construction for 10 years and received his bachelors degree in Construction Science and Management from Kansas State University. Corey obtained his LEED AP accreditation last summer while working on his first LEED project.

Katrina Gerber, PE is President of BGR Consulting Engineers. Katrina's architectural engineering degree has given her keen insight to all aspects of a building. Katrina is an advocate of sustainable building design and her continued involvement in LEED and the USGBC allows her to stay current with new and changing technologies to design systems which benefit the environment.

Laura Lesniewski, AIA is an architect and principal at BNIM in Kansas City, with over 20 years of experience on a broad range of projects. She is interested in the integration of sustainability in the built environment, the potential of building information modeling, and an integrated project delivery approach that takes advantage of lean thinking. Laura is currently working with the Omega Center for Sustainable Living in upstate New York, which is in the one-year verification period of the Living Building Challenge, and the Meadowbrook mixed-use development project in Montreal, seeking to operate at a community-scale within the capacity of one planet.

Greg Searle is the Executive Director of BioRegional North America and is an international consultant, facilitator, and entrepreneur, and an expert on sustainable lifestyles. He leads the One Planet Communities program for North America, and sits on the Steering Committee for the global program. Greg is the lead author of the Green Living Manifesto. He has given lectures and keynote speeches at over 50 conferences and universities around the world, on subjects including the BedZED urban eco-village, fostering sustainable lifestyles, and ecological footprint.