



2013

**EDUCATION DAY &
TRADE SHOW**

APRIL 15, 2013



WELCOME from CSI Columbus Chapter President



WELCOME from CSI Columbus Chapter President

Since moving to Columbus in the fall of 2007, I have been engaged in the development of DesignColumbus. The CSI Columbus Chapter had created the DesignColumbus trade show and set the tone for learning and education of new products.

In 2009, USGBC granted a Charter Membership to allow the formation of the Central Ohio Chapter. In the fall of 2009, I joined the COH Chapter and the Communications Committee. My goal with joining the Communications Committee was to develop a working relationship between CSI Columbus and USGBC Central Ohio Chapter.

In the fall of 2010, DesignColumbus became a joint venture. The addition of USGBC has given this event additional spirit and makes it THE trade show of the year in the Central Ohio area. We asked our members what they wanted to see in the development of this partnership and their responses included: better education sessions and new, more sustainable products and services.

Now in our third year together, DesignColumbus has become the premier Education Day & Trade Show for Central Ohio professionals involved with the built environment. This year we will feature 12 incredible education sessions focused on technologies designed to promote “sustainable growth, occupant health and economic vitality”. 50+ exhibitors will be displaying the latest in green & sustainable products and services.

Our keynote speaker, Chris Pyke, VP of Research for the USGBC, will be discussing the benefits of big data for the AEC industry. Come learn about GBIG, the searchable green building database he created for USGBC, and current benchmarking and reporting capabilities for units like USGBC Chapters, utility territories, Congressional Districts, and Metropolitan Statistical Areas.

Please accept my invitation to attend DesignColumbus 2013. Full Day attendees can earn up to 6.5 CEU's (AIA and GBCI, including some LEED specific). You will find it difficult to find a better education value.

A handwritten signature in black ink that reads "J.C. Hill".

Jim McDonald, CSI, CDT, LEED AP BD+C
President, CSI - Columbus Chapter

WELCOME from USGBC Central Ohio Chapter Chair



Columbus was recently named one of the 10 coolest cities in the Midwest, for its style and culture. Come witness the intersection of style and sustainability in our region's built environment at DesignColumbus 2013, an educational event and trade show created by the A/E/C community for the A/E/C community.

Attendees will hear from actual team members about leading-edge sustainable development projects for the Columbus Museum of Art, Ohio State University, the Southside Health Center, and more. DesignColumbus 2013 offers 12 educational sessions that will address construction in Healthcare, Government/Community, Higher Education, LEED regionalization and process, plus an inspiring keynote address from Chris Pyke, a renowned national expert about the implications and opportunities in the era of Big Data for the design, construction, and operation of high-performance, green buildings.

The U.S. Green Building Council - Central Ohio Chapter works to transform our region's built environment to be more healthy, prosperous, and sustainable. We are thrilled to join CSI Columbus in co-hosting the region's premier building industry event, and we invite you to learn about some of the cool ways that our construction community is making Central Ohio a leader in building a more healthy, prosperous and sustainable future.

A handwritten signature in black ink that reads "Tyler J Steele".

Tyler J Steele, LEED AP BD+C, Hines
Chair, U.S. Green Building Council – Central Ohio Chapter

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EDUCATION SESSIONS

8:00 AM - 9:30 AM

SESSION 1A

LEED Beyond Paperwork: Construction Impact on the Built Environment

Presented by:

Jason Woehrle, *Gilbane Building Company*

1.5 AIA/CES LU; 1.5 GBCI LEED Specific BD+C

LEED Certified Buildings are billed as healthy, efficient, and environmentally responsible Projects. Critics however, say that the proof is in the pudding and contend that LEED certified buildings are no better than code compliant buildings. As an industry, designers and constructors alike are terrific at producing paperwork to prove the “theory” of our efforts. This course is a call-to-arms for Construction Managers and Contractors to work beyond the paperwork requirements of LEED to ensure that the built environment truly reaps the intended benefits of the LEED Program.

SESSION 1B

Green Grows in the Southside: The John R. Maloney Family Health and Wellness Center

Presented by:

Keoni Fleming, *DesignGroup*

Ben Biada, *Advanced Engineering Consultants*

Jeff Bryan, *MKSK*

1.5 AIA/CES LU/HSW; 1.5 GBCI General

The Southside Health Center is a 20,000 SF single-story community health center currently under construction at 1905 Parsons Avenue in the Southside of Columbus. Scheduled for completion in fall of 2013, the Southside Health Center is pursuing LEED Silver certification in accordance with the City of Columbus’ commitment to the sustainable design & construction of its facilities. This presentation will discuss the particular challenges faced by the design team in meeting the City’s requirement for LEED Silver certification on a project with a challenging schedule and modest

10:00 AM - 11:00 AM

SESSION 2A

The LEED Process Start To Finish

Presented by:

Allison McKenzie, *LSHP Leading Design*

1 AIA/CES LU/HSW; 1 GBCI LEED Specific BD+C

The LEED process can be daunting! A successful LEED project needs to meet specific requirements at specific points in the project. This session will identify those key project milestones and help LEED project team members understand their roles and responsibilities. The entire LEED process will be analyzed and dissected from start to finish to give LEED project team members the confidence they need to participate in their first LEED project or make their next one run more smoothly.

SESSION 2B

Transforming the Columbus Design Market: Deep Energy Retrofits & National Challenges

Presented by:

John Seryak, *Go Sustainable Energy, LLC*

Gregory Raffio, *Go Sustainable Energy, LLC*

Charles Schreier, *Go Sustainable Energy, LLC*

1 AIA/CES LU/HSW; 1 GBCI General

Climate change, national security, aging energy infrastructure, and other national challenges unify the design community in pursuit of a low-carbon, energy independent nation. Currently, our national building stock changes over at a very low rate, utility programs incentivize what should be common practice, and LEED Platinum Plus is not yet the design standard. Additionally, the majority of codes, standards, and green building programs, focus on new construction and consequently miss the overwhelming existing building stock. If current practice does not evolve, we will fall short of the very aggressive and necessary changes that must be made to address these looming concerns. In this presentation, we will discuss the inadequacy of our existing energy-efficiency and environmental goals while proposing short and long-term

budget. Innovative envelope, HVAC, and lighting strategies will be discussed; in particular, how those strategies allowed the building to reduce energy consumption by 25% over baseline, with efficiencies as much as 50% better than baseline in lighting.

SESSION 1C

What Green means to Zoning Boards

Presented by:

Dan Barringer, *ms consultants*

Brian Szuch, *ms consultants*

Michael Jones, *Coldwell Banker King Thompson*

Timothy M. Clayton, Jr., *Luper Neidenthal & Logan*

1.5 AIA/CES LU/HSW; 1.5 GBCI LEED Specific BD+C and ID+C

With current zoning rules not allowing many sustainable initiatives to be constructed without going through zoning boards in some fashion, the zoning board is at times the last say if sustainable

constructions can be built. Current zoning board members Dan Barringer, Upper Arlington; Michael Jones, Columbus; Brian Szuch, Westerville; with Timothy M. Clayton, Jr., Luper Neidenthal & Logan will discuss their communities experiences in working with sustainability and zoning. They will provide insight to how their board makes decisions, and provide recommendations on how to bring sustainable issues before zoning boards. The emphasis of the conversation will be on sustainable design (LEED) in both the positives and negatives, and how zoning boards react to variances that involve sustainability. These issues including green space, plantings, permeable pavers, solar panels, site lighting, parking, casting of shadows, views, bikes, and all the issues asked from attendees questions. This session will provide a lively dialogue on one of the possible hurdles to sustainability. timelines, strategies, collections, and places. We're review current benchmarking and reporting capabilities for units like USGBC Chapters, utility territories, Congressional Districts, and Metropolitan Statistical Areas.

11:00 AM - 12:00 PM

KEYNOTE (ROOM A)

Green Building in the Era of Big Data

Presented by:

Chris Pyke, *VP Research, USGBC*

Dr. Pyke is the Vice President of Research for the U.S. Green Building Council. He directs a diverse research portfolio leveraging green building project experience to gain practical insights into building performance, occupant experience, and market trends. The Research Program develops and applies advanced information technologies to inform and accelerate market transformation, including the development of the Green Building Information Gateway (www.gbig.org).

1 AIA/CES LU/HSW; 1 GBCI General

This talk will consider the implications and opportunities of the coming era of Big Data for the design, construction, and operation of high-performance, green buildings. The participants will learn about the nature of data creation, interpretation, and interoperability. We will discuss the development and status of USGBC's new Green Building Information Gateway. This introduction will include GBIG's capabilities with respect to LEED project transparency, building.

adjustments to our current methodologies. Effective engagement in this process requires the attention of designers, owners, facility managers, building occupants, and policy makers. We will challenge the Ohio design community to become THE hub of knowledge and expertise in deep-energy retrofits and net-zero energy facilities.

SESSION 2C

This Changes Everything: Integrated Project Delivery

Presented by:

Joseph A. Cleves, Jr., *Dressman Benzinger LaVelle psc*

1 AIA/CES LU/HSW; 1 GBCI General

Integrated Project Delivery ("IPD") is a value based delivery method that revolutionizes the process of design and construction by aligning key parties' interests, project goals and outcomes. Come learn about IPD, how it works, how project performance is enhanced through collaborative delivery, basic deal structures and contract negotiation.

EDUCATION SESSIONS (CONTINUED)

1:30 PM - 3:00 PM

SESSION 3A

Ongoing Commissioning: Protecting Your Investment

Presented by:

Michael Berning, *Heapy Engineering*
Donn Young, *Heapy Engineering*

1.5 AIA/CES LU/HSW; 1.5 GBCI LEED Specific BD+C

The session will explain the difference between Ongoing, Retro and Basic/Fundamental Commissioning. Several case studies will be used to illustrate the value of implementing an Ongoing Commissioning Program (and compliant with LEED EBOM). This seminar will also outline how Ongoing Commissioning is a process that goes beyond basic Preventative Maintenance to preserve the high performance and energy efficiency levels of a building's energy using systems.

SESSION 3B

OSU Stone Lab Embraces Solar Energy

Presented by:

Scottie Elliott, *Metro CD Engineering*
Michael Chow, *Metro CD Engineering*
Justin Schultz, *Metro CD Engineering*
Shawn Bogenrife, *Bogenrife Architecture*
Sam Garber, *Inspiramental Company*
Dr. Jeff Reutter, *The Ohio State University*
Rick Van Deusen, *The Ohio State University*

1.5 AIA/CES LU/HSW; 1.5 GBCI General

Stone Laboratory is the oldest freshwater biological field station in the United States and the center of The Ohio State University's teaching and research on Lake Erie. Located on Gibraltar Island near Put-In-Bay, the research facility hosts top researchers, instructors and lecturers, and offers 25 college-credit science courses each summer for undergraduate and graduate students, advanced high school students, and educators. As part of their

3:30 PM - 5:00 PM

SESSION 4A

Made Locally: A Roundtable with the LEED v4 Regionalization Task Force for Central Ohio

Presented by:

Allen Schaffer, *Moody Nolan*
Karen Joslin, *Joslin Consulting*
Jerry Smith, *Smith\GreenHealth Consulting, LLC*

1.5 AIA/CES LU/HSW; 1.5 GBCI LEED Specific BD+C, ID+C, O+M and Homes

A volunteer committee of leading local practitioners and professionals from the building and design industry worked through this national effort to identify and prioritize our area's environmental issues that informed the final selection of the regional priority credits. Along this journey the committee engaged a wide range of experts through focus group sessions, surveys and open discussions about the issues that are impacting the U.S. Green Building Council, Central Ohio Chapter (USGBC-COH). Project teams can earn up to four regional bonus points for each project. How will regional priority credits be defined in the next version of LEED v4 This session will explore the year long process that the Central Ohio chapter traveled to identify and define these credits. The USGBC-COH encompasses all of central Ohio along with areas to the East

and South, so the region includes a broad range of typologies, land use, businesses and challenges. Come participate in this roundtable that will provide insight on the issues and process but, more importantly, add to the discussion with your perspective and insights on how we all can make the Central Ohio region a more sustainable place to live

SESSION 4B

A Bold Vision: The Columbus Museum of Art Expansion

Presented by:

Michael Bongiorno, *DesignGroup*
Keoni Fleming, *DesignGroup*
Michael Malesko, *Heapy Engineering*
Darren Meyer, *MKSK*

1.5 AIA/CES LU/HSW; 1.5 GBCI General

Principal and Senior Designer at DesignGroup, Michael Bongiorno, AIA, LEED AP BD+C, will discuss design innovations employed on the Columbus Museum of Art Expansion. This project consists of the renovation of the approximately 38,000 square foot 1974 Wing, a major addition of approximately 49,000 square feet, and associated

sustainability initiative, Stone Lab installed a Solar PV system for on-site electricity generation, and a Solar Thermal system for hot water production. Attendees will learn about the design and project management from the A/E consultants Metro CD Engineering and Bogenrife Architecture; the implementation from contractors Inspiramental Company and Dovetail Solar, and the benefits from the owner The Ohio State University.

SESSION 3C

Life After Construction

Presented by:

Jan Broughton, *Fairfield Union School District*
Thad Goodman, *Quiet Rock*

1.5 AIA/CES LU/HSW; 1.5 GBCI General

In 1991 a student in Perry County sued the State Government, claiming it was mandatory to attend a state school, but the facilities were

substandard and unsafe. In 1997 the Government lost this battle, but got to set the rules to make it happen. They were allocated 33 billion dollars to systematically upgrade Ohio's schools from the worst to the best. The Ohio Schools Facility Commission was born, mandating the process, the materials used, the order in which schools got upgraded and the building requirements to make it happen. Learn about the effect this has on one school district. Fairfield Union School District, a rural farming community who got the once in a generation opportunity to build 4 buildings worth 66 million dollars, paying only 28 percent of the cost. This program will review the process of raising matching funds, destruction of old properties, building and operating new facilities. This program will present the views of the Board of Education, the Academic Staff and the community members. A must see for those who drive public works in the community space. Learn what the community thinks at various stages of the project, and how to address those issues with success. Learn what happens after the dust settles, the construction trailers are gone, and Life gets back to "The New Normal." Question and Answers by Jan Broughton, Interim Superintendent of Fairfield Union Schools.

site work related to a new main entrance, sculpture garden, and related outdoor spaces that connect to the larger neighborhood framework. CMA is at the forefront of explorations of the new role the art museum plays in contemporary society. The leadership of CMA had a strong vision for how their facilities needed to be improved to better serve their evolving mission. Major priorities identified for the project were a new clarified entry experience, expanded special event space, special exhibition space for large traveling exhibits, new gallery space for contemporary art, and a new and expanded sculpture garden. A rigorous simplicity of form, the novel use of traditional materials, the poetic use of lighting, and elegant sensitivities to the historic museum building are cornerstones to the design innovations. This project is seeking LEED Silver Certification.

SESSION 4C

Awakening a Dinosaur: Greening the City-County Building in Indianapolis

Presented by:

John Hazlett, *Williams Creek Consulting*
Ted Blahnik, *Williams Creek Consulting*

1.5 AIA/CES LU/HSW; 1.5 GBCI General

The Indianapolis City-County building (CCB) is a 50 year old, 731,000 square foot downtown landmark that was constructed between 1959-1962 and houses over 2,000 employees that work in the offices of city-county government, the county courts and the police department. The building is visited by hundreds of citizens daily and is characteristic of many federal buildings constructed in the 1960s. In early 2009, Mayor Greg Ballard announced the Greening of the City County Building initiative to be led by the City's Office of Sustainability. The initiative commenced with an Opportunity and Innovation Workshop led by the Rocky Mountain Institute that produced a host of recommendations to transform the CCB into a model green building. Nearly a year later, work began on an \$8 million deep energy retrofit project that will significantly reduce the building's energy profile, including a 39% reduction in electricity, 93% reduction in steam and result in 46% energy costs savings. The Greening the City County Building project also included water conservation improvements that will reduce water consumption by 40%. Come to this session to learn about the highly integrated energy efficiency and water improvements that recently earned the CCB the EPA ENERGY STAR and served as a springboard for the LEED EB: O&M feasibility assessment currently underway. The project includes a particularly innovative use of onsite alternative water sources that were the focus of a baseline water footprint completed by Williams Creek Consulting during the RMI workshop. The CCB was recently featured as a project case study in the Rocky Mountain Institute's Retrofit Depot and the feasibility assessment indicates a strong potential for LEED certification.

PROGRAM MAP

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