

WELCOME from CSI Columbus Chapter President



For over 50 years Columbus has been blessed to have a local chapter of the Construction Specifications Institute (CSI) designing the skyline we drive past every day. Buildings like the Ohio Historical Society, Vern Rife Center, Columbia Power: The Huntington Building and The Wexner Center for the Arts. Historical Buildings have been touched as well-Central High School transformed into the Center for Science and Industry starting over at downtown. Landmarks we know and love have spun from this group of professionals. CSI has spent years wisely, communicating how to put materials masonry and steel together to shape Columbus Ohio.

Recently the Industry has begun a new direction in environmental protection and stewardship. The United States Green Building Council (USGBC) has brought a new approach in ways to build buildings that provide less demand on our planetary resources. Columbus State Community College Delaware Campus and the Arboretum are examples of projects that bring down energy costs and still shine as architectural monuments of building efficiency.

CSI and USGBC join once a year to share what they know with the local Construction community. Owners and Developers learn about the competitive edge you can gain in today's design techniques. Architects, General Contractors and Construction Managers can attend Case Study classes covering Education, Health, and other general commercial buildings. Real life examples of the work being done as Columbus building techniques save energy and protect our environment.

Join in on Classes like "Open Letter to my Owner, with Love, your LEED AP". Interact with the hands that imagined and then acted. Take the opportunity to walk the halls and displays of those companies that are inventing new products and solving problems such as Daylighting, Water Management, and learn more about High Performance Building.

Come see the ideas and the products that will shape the skyline of tomorrow. I invite you to DesignColumbus.

Enjoy,



Thad Goodman
CSI Columbus Chapter President
Serious Energy/Quietrock

WELCOME from USGBC Central Ohio Chapter Chair



In this year of Columbus' bicentennial celebration, our city and our region have never been so vibrant. The buildings where we live, work and play are critically important to ensuring that our community will continue to grow and thrive.

As part of our ongoing effort to transform Central Ohio's built environment to be more healthy, prosperous, and sustainable, the U.S. Green Building Council - Central Ohio Chapter is thrilled to join CSI Columbus to co-host DesignColumbus 2012, at COSI on April 16.

Attendees at DesignColumbus 2012, the region's premier building industry event, can choose from 16 educational sessions that will address construction in the Private Sector, Government/Community, Education, and cutting-edge Process. Presentations by leading architects, engineers, governmental officials, municipal planners, facility managers, contractors, construction managers, and other organizations will feature high-profile projects such as the new Hilton Columbus Downtown, Nationwide Children's Hospital, Battelle Darby Creek Environmental Center, and more. AIA and GBCI continuing education units will be offered.

Bracketing DesignColumbus 2012's outstanding educational programming will be a trade show event, offering an invaluable opportunity for face-to-face interaction with knowledgeable professionals. Thanks to our generous sponsors, there will be a complimentary networking happy hour.

Please accept this invitation to join us at DesignColumbus 2012, and see what some of the most dynamic and forward-thinking organizations are doing to make Central Ohio a leader in building a more healthy, prosperous and sustainable future.



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

VENDORS

BOOTHS

01 – Sherwin-Williams
02 – DIRT
03 – PPG Industries
04 – Statre Corporation
05 – Spraylat Powder Coatings
06 – The Columbus Coal & Lime Co.
07 – DalTile and The Mohawk Group
08 – 3Form
09 – R.W. Setterlin Building Co.
10 – Oberfields, LLC
11 – Soprema
12 – AkzoNobel
13 – DHDC, Inc.
14 – BWA South Co., Inc.
15 – Go Sustainable Energy, LLC
16 – King Business Interiors
17 – Tnemec Protective Coatings
18 – MechoSystems
19 – ATAS International, Inc.
20 – Ohio Valley Supply / DuPont Surfacing
21 – ASSA ABLOY
22 – Parksite / DuPont Tyvek
23 – BASWA acoustic North America
24 – Marvin Windows & Doors
25 – AEP Ohio

26 – Air Control Products
27 – Turner Construction Company
28 – Ingersoll Rand Security Technologies
29 – Carboline
30 – Spohn Associates
31 – The Garland Company
32 – Olson Architectural Products
33 – MortarNet
34 – V&S Columbus Galvanizing
35 – Sika Sarnafil
36 – ThyssenKrupp Elevators
37 – Won-Door
38 – Dyson B2B, Inc.
39 – Total Glazing Solutions
40 – Architectural Products Resource
41 – KLH Engineers
42 – Tremco Roofing & Building Maintenance
43 – Ohio Valley Flooring / Armstrong
44 – CEI, Inc.
45 – Centria
46 – Dovetail Solar and Wind
47 – Kingspan
48 – Advantage Sport USA, Inc.
49 – Dow Building Solutions
50 – CPI Daylighting, Inc.
51 – Farnham Equipment Company

SPONSORSHIPS

BAGS

Hamilton Parker

LANYARDS

Marvin Windows & Doors

FLASH DRIVES

AEP Ohio

IPAD HD

Owens Corning

\$100 GAS CARD

Synergis Construction Supply

PHOTOGRAPHY

Fulcrum Creatives

GRAPHICS

Matt Rumora Visual Communication Design

NON-PROFIT / ALLIANCE ORGANIZATIONS

Columbus State Community College
Builders Exchange of Central Ohio
BOMA

BEVERAGES

SAFTI First

FOOD

Shelley Metz Baumann Hawk
Duffy+Duffy Cost Segregation

HAPPY HOUR

Tremco

SIGNAGE

Key Companies

PROGRAM DESIGN

DesignGroup

PREMIUM SPONSORS



A HAWORTH® Preferred Dealer

EDUCATION SESSIONS

All sessions carry 1.5 GBCI & AIA Learning Units

8:00 AM - 9:30 AM

DC-01 (ROOM A)

Sustainable Design Through CM at Risk & Design Build

Presented by:

Craig Weise, *Construction Reform Program Director, Ohio School Facilities Commission*
Jon Walden, *Contract & Compliance Manager, Ohio School Facilities Commission*

With the enactment of HB 153 in June 2011, and administrative rules that went into effect at the beginning of 2012, Ohio public authorities now have alternative project delivery methods that enable a more closely integrated team. These alternative delivery models include construction manager at risk and design-build. Learn about the new options available for public construction in Ohio, how they can be used to create a more sustainable environment, and understand the contractual relationships and processes for a successful project.

DC-02 (ROOM C)

People, Presence, Place: Co-Creating High-Performance Buildings

Presented by:

Kathleen Kelly, *Principal, NBBJ*
Andy Snyder, *Senior Associate, NBBJ*

Globally, achieving sustainable performance and significant energy reduction is hindered by a multitude of issues, varying from unique climate conditions to soft government policies. To rectify, many powerful resources work in concert, with the team at the epicenter, across international borders. The power of the team, of policy, and of knowledge were the three themes analysis revealed in Asia, the Middle East, and Europe/UK required to deliver energy reduction around the world; which in turn, have the power to improve our local building performance.

10:00 AM - 11:30 AM

DC-05 (ROOM D)

Getting to LEED Platinum in an Ohio Public School

Presented by:

Allison Beer McKenzie, *AIA, LEED AP, Architect, Director of Sustainability, SHP Leading Design*
Eric Steva, *AIA, LEED AP, Project Manager/Senior Project Architect, SHP Leading Design*

London Middle School boasts many unique features including the infusion with sustainable features (from prairie grass, to flooring materials, to clerestory windows) that enhance the district's bottom line and contribute to their educational mission, delivering a bright, open, airy learning environment. Allison Beer McKenzie, Director of Sustainability for SHP Leading Design, will lead the discussion, starting with sustainable conversation through the design and delivery of the project including the buy-in process from the owner.

DC-06 (ROOM C)

Confluences and Connections: A Sustainable Masterplan for COSI's Campus

Presented by:

Sharon Tinianow, *Director of Sustainability Initiatives, COSI*
Jerry Smith, *FASLA, EDAC, LEED AP, Principal, SMITH|GreenHealth Consulting*
Erik Burdock, *Director of Experience Design*
Michael Bongiorno, *AIA, LEED AP BD+C, Principal, DesignGroup*

Master planning provides a road map for future development. When the process of creating a master plan involves the larger community, what emerges can be surprising. This session will share the process used by COSI to arrive at a sustainable master plan for the 17 acre campus and explore the ways in which that plan shapes a design process and ensures that overarching goals are met.

DC-03 (ROOM D)

Economic, Legal and Tax Benefits of Green Buildings

Presented by:

Craig Miller, CPA, CGFM, *Vice President, Duffy+Duffy Cost Segregation*

Tim Clayton, ESQ, LEED AP BD+C, *Luper, Neidenthal & Logan LPA*

Joseph Paterniti, VP, *Senior Business Banker, Key Bank*

Learn how energy efficiency can boost R.O.I., increase profitability, and save income taxes as an expert panel, that include a Green CPA, a Green Attorney, and a Green Commercial Banker, discuss construction tax planning, the cost/benefits of energy efficiency, and how to maximize the profit in the sustainability equation.

DC-04 (ROOM B)

Case Study: Attaining LEED for Existing Buildings: O&M PLATINUM Requires Behavioral Change

Presented by:

Ryan Hoffman, LEED & Energy Services Manager, *Heapy Engineering*

Presented in this seminar will be Operations and Maintenance (LEED-EB: O & M) certification goal to go from what was initially believed to be a nearly impossible GOLD level to become a LEED PLATINUM through the implementation, the documentation process, and the organization's internal behavioral transformation. This transformation of a conservative-minded firm's project occurred through the LEED Team's determined efforts to use a process that focused on guiding employees to think and act beyond the norm. Although eco-negativity was not very prevalent, effecting common ground at such a higher environment plane was challenging.

DC-07 (ROOM B)

The Akron Zoo's Path to Net-Zero Energy

Presented by:

Gregory Raffio, Engineer, *Go Sustainable Energy*

Peter Kleinhenz, Engineer, *Go Sustainable Energy*

While the AIA, ASHRAE, US-DOE, and other organizations have clearly stated that net-zero energy new construction will be attained within two decades, many existing buildings must be retrofit to approach net-zero energy as well. Go Sustainable Energy conducted a net-zero campus energy assessment for the Akron Zoological Park that includes aggressive energy efficiency combined with renewable energy installations. The presentation will contain descriptions of the most impactful energy efficiency recommendations, planned renewable energy installations, and how this methodology may be applied to other commercial facilities and campuses, both from a retrofit and a new-construction perspective.

DC-08 (ROOM A)

Hilton Columbus Downtown – Strategies for Achieving LEED Gold in a Hospitality Project

Presented by:

Michael Senger, PE, LEED AP BD+C, ID+C, *Mechanical Engineer, Heapy Engineering*

Heather Cassady, LEED AP BD+C, *Project Engineer & Sustainability Manager, Turner Construction Company*

Caren C. Foster, LEED AP BD+C, *Senior Associate, Moody•Nolan, Inc.*

Sarah Durio, LEED AP BD+C, *Associate, HOK*

Ardra Zinkon, IALD, MIES, LEED Green Associate, *Director of Lighting Design, Tec Inc. Engineering & Design*

The course will analyze several design challenges related to site, HVAC systems, and many other aspects, while striving to balance sustainable goals with program requirements, first-cost limitations, and end-user guest experience. The project team will review energy modeling, carbon tracking, and lighting design, then share the solutions developed in order to construct a hotel in an urban environment and the process of coordinating LEED construction activities.

EDUCATION SESSIONS (CONTINUED)

All sessions carry 1.5 GBCI & AIA Learning Units

2:00 PM - 3:30 PM

DC-09 (ROOM D)

Fun with BIM, ASHRAE and the Current Alphabet Soup (Sustainability and BIM: Staying out of Jeopardy)

Presented by:

Dr. Margaret E. Owens, Ph.D., Assistant Professor for Construction Management, Columbus State Community College
Dean M. Bortz, MA, CSI, CDT, Assistant Professor for Construction Management, Columbus State Community College

This presentation is a participatory event designed not only to convey current and future trends in sustainability and BIM, but also to demonstrate an effective method of updating and motivating colleagues and clientele.

DC-10 (ROOM A)

What Defines Sustainable Laboratories?

Presented by:

Kathleen Kelly, Principal, NBBJ
Ronald Turner, Principal, HAWA Incorporated
James Porter, Associate, HAWA Incorporated

Through the design process utilized with Research Building 3 (RB3) for Nationwide Children's Hospital Research Institute, the design team investigated interrelated sustainable features that we believe make the biggest impact to researchers and the work investigated in their laboratories. Through the sharing of the RB3 story, one will understand the impact features, which include energy efficiency, water conservation, space utilization, and operating costs; as well as learning the overarching link to addressing all of the high impact areas. Defining the best value of energy reduction led the team through an investigation of multiple systems, combined with developing a load of reduction strategy and enclosure evaluation that delivered savings of 30%, which drove the correspondent reduction of energy savings in our other sustainable areas of interest.

4:00 PM - 5:30 PM

DC-13 (ROOM B)

Site Responsive Design: Providing a Sensory Experience for Emotionally Disturbed Children through Sustainable Site and Storm Water Systems

Presented by:

Jocelyn Krosky, LEED AP BD+C, Associate, DesignGroup
Michael Pistiolas, Senior Landscape Architect, MSI|KKG
Christopher Fleming, Senior Project Manager, EMH&T

Using the Alum Crest/Clearbrook School for Emotionally Disturbed (ED) Students as a case study, we will explore the innovative ways a school can be designed for a specialized population and still meet and exceed LEED expectations for site and storm water design. This case study offers unique opportunity to discuss how design can positively impact decisions for the users, building site, and community, to design the site and storm water system in a more unified way and how to apply these strategies on their own projects. Systems that will be discussed and explained in detail will include: Archeological Analysis, Infiltration Pit Testing, A Zero Discharge Storm water Design with Infiltration Pit Chambers, Bio-retention, Bioswales, Sensory/Rain Gardens and Planters.

DC-14 (ROOM A)

BIM and Energy Modeling: How to Determine the Best Sustainable Solution During Design

Presented by:

Robert Lonnemann, PE, LEED AP, CEM
Principal, KLH Engineers
Mohammed El-Sayed, PE, LEED AP BD+C, CEM, CEA, MSc Environmental Health & Safety, Mechanical Engineer, KLH Engineers

By using real-life examples, Mr. Lonnemann and Mr. El-Sayed will demonstrate how BIM and energy modeling affects building design and how designers can determine the benefits of sustainable strategies early on in the design process. Through this advanced approach, the focus will be on implementation and benefits. In addition, not only will they address current challenges, they will discuss the future outlook of the technology as well.

DC-11 (ROOM C)
Greening the City of Powell

Presented by:

David Cohen, *Regional Manager,*
Dovetail Solar & Wind

Eric Fischer, *Development Planner, City of Powell*

Don Hall, *Owner, Watt Works*

The City of Powell is moving towards the completion of a six-point green energy project that includes a combination of energy efficiency component retrofits and an 80kw Solar Photovoltaic component that allows the City to significantly reduce its overall energy consumption and become a producer of green energy. From the City's perspective, the project serves two major purposes: moving towards the completion of goals set down under the Central Ohio Green Pact resolution of 2007, and being part of the economic recovery throughout Ohio. The second purpose is that it assists Powell in becoming a major Emergency Response Center in this southern portion of Delaware county; able to generate their own power through the photovoltaic system in any extended emergency situation when the grid is down by retrofitting all the lights with LED, adding light sensors, a new Solar Pavilion in the city park, and a solar structure to cover the city's Police cars.

DC-12 (ROOM B)
Open Letter to My Owner, with Love, Your LEED AP

Presented by:

Eric Elizondo, *Technical Service Manager, ms consultants, inc.*

Melissa Berardi, *Project Designer, ms consultants, inc.*

Jason Christoff, PE, *Project Manager, ms consultants, inc.*

Dan Barringer, *Architect, ms consultants, inc*

Our letter to the owner describes what LEED APs desire their building owners to know about LEED certification, and the owner's role in the certification process. Developed from ms consultants' experiences in certifying commercial and public projects throughout Ohio, Florida, and the Midwest, crucial points, explained through existing project experiences and directly linked to LEED credits for New Construction and Commercial Interiors, will help the LEED application and certification be successful. Topics include the owner's motivation to go LEED, formulating the project strategy for success; from costs, owner's encouragement in developing a LEED, the owner's role in recycling, willingness of the owner to be the enforcer, and thinking about public outreach and education.

DC-15 (ROOM D)
Design Innovation Case Study: Battelle Darby Creek Environmental Center

Presented by:

Michael Bongiorno, *AIA, LEED AP BD+C*
Principal, DesignGroup

One of the locations for the 2012 Eco-Summit is the project in Battelle Darby Creek, designed to accommodate school groups in a classroom setting, a large meeting space, interpretive displays, as well as other features supporting the educational needs for the Metro Parks. The center will support Metro Park's vision to encourage visitors by cultivating their knowledge of the diverse ecosystem found within the Battelle Darby Creek Wetlands which includes the re-introduction of bison, native prairies, creeks, wetlands, and forests. The building will support sustainability practices and will utilize this feature as an educational tool for the public.

DC-16 (ROOM C)
Achieving LEED Gold with a Fully Integrated Building Envelope

Presented by:

Mark G. Anderson, *AIA, LEED BD+C, GRP*
Sustainable Market Development Manager, Tremco

The presentation outlines the design philosophy and considerations in achieving each one of the 72 points for LEED Gold status under the LEED NC 2009 rating system. This discussion will cover many bases of the implemented process, the pre- and post-construction waste management, the many building integrated systems, from water and energy conservation and consumption, life-cycle considerations, and the ongoing measurement and verification.

