

Sustainable Building Education Day & Trade Show

DESIGN COLUMBUS 2014

For a Healthy, Prosperous & Sustainable Future!

Monday, April 28, 2014
8:00 AM - 6:00 PM

CO Si
Center of Science and Industry

WELCOME from CSI Columbus Chapter President



Ladies, gentlemen and honored guests;

As the current President of the CSI Columbus Chapter, it is with great pleasure that I welcome you to the 2014 DesignColumbus tradeshow and education event. This event was created to bring architects, engineers, trusted product advisors and all aspects of construction professionals together to learn from one another and build relationships. I invite you to take advantage of the tradeshow floor and learn the products and services provided by these knowledgeable individuals. The multiple topics in the educational tracts will not only fulfill credit requirements, but will offer choices and give thought for future designs. All in all, this event is intended to stimulate the mind's eye on products, design and

education for our future.

Again, welcome to 2014 DesignColumbus through joint efforts of CSI and USGBC; my appreciation to the amazing individuals for the continuing efforts of this assembly. If you are not a member of either organization, I invite you to seek out their respective booths and listen to what their associations have to offer. I look forward to meeting you on the tradeshow floor or at a future chapter meeting.

Michael S. Rathburn, CSI
President, CSI - Columbus Chapter

WELCOME from USGBC Central Ohio Chapter Chair



The U.S. Green Building Council- Central Ohio Chapter is once again pleased to co-host DesignColumbus- the region's premier building industry event. This year's program brings you in-depth case studies, technical updates, and big-picture applications that are sure to challenge and inspire attendees from all disciplines. Green building professionals in Ohio are working to refine their craft and to stay ahead of rising standards and emerging best practices. DesignColumbus 2014 is intended to help you do just that.

Each year I look forward to the projects and organizations showcased at DesignColumbus who show us what is achievable now and what is to come in the pursuit of a more healthy, prosperous, and sustainable built environment. This year in particular, the event serves as

an important reminder that the leaders in our community not only embrace change, but have come to thrive on the competition and camaraderie that comes with it. Welcome to DesignColumbus 2014 and thank you for being part of our community.

Jeremy Cohen, LEED AP BD+C
Chair, U.S. Green Building Council – Central Ohio Chapter

VENDORS & SPONSORS

BOOTHS

- 1 – AIR CONTROL PRODUCTS
- 2 – ATAS INTERNATIONAL
- 3 – PPG INDUSTRIES
- 4 – RMAX / SMART CI (PLATINUM)
- 5 – ARC DOCUMENT SOLUTIONS
- 6 – ALLEGION
- 7 – ARDEX AMERICAS
- 8 –
- 9 – SIMPLAST
- 10 – MECHOSYSTEMS (PLATINUM)
- 11 –
- 12 – HAMILTON PARKER / CROSSVILLE
- 13 – OBERFIELDS, LLC
- 14 – AR DESIGN
- 15 – TRUESCAN3D
- 16 – ARMSTRONG COMMERCIAL FLOORING
- 17 – SHERWIN WILLIAMS
- 18 – PELLA WINDOWS
- 19 – VIPER 2 VAPOR BARRIERS
- 20 – AGC GLASS
- 21 – SNYDER BRICK & BLOCK
- 22 – CARLISLE SYNTEC
- 23 – OLSON ARCHITECTURAL PRODUCTS (PLATINUM)
- 24 – RAMCO METALS
- 25 – FIBERTITE ROOFING
- 26 – ASSA ABLOY
- 27 – TREMCO
- 28 – MARVIN WINDOWS AND DOORS (PLATINUM)
- 29 – DAL TILE
- 30 – PARKSITE / DUPONT TYVEK
- 31 – GLENNY DECORATIVE GLASS (PLATINUM)
- 32 – NANAWALL
- 33 – FRANKLIN INTERNATIONAL/TITEBOND (PLATINUM)
- 34 – INTUITIVE CONCEPTS (PLATINUM)
- 35 – WOODRIGHT PRODUCTS
- 36 – DMI METALS
- 37 – THYSSENKRUPP ELEVATORS
- 38 – REPS OF OHIO (JOHNS MANVILLE)
- 39 – SYNTHÉON
- 40 – CERTAINTEED
- 41 – MS CONSULTANTS
- 42 – SPOHN ASSOCIATES
- 43 – DOW BUILDING SOLUTIONS / KNIGHT WALL SYSTEMS
- 44 – CPI DAYLIGHTING
- 45 – STEGO INDUSTRIES
- 46 – NATIONAL GYPSUM
- 47 – V&S COLUMBUS GALVANIZING
- 48 – ENGINEERED SYSTEMS
- 49 – ENGINEERED SYSTEMS
- 50 – CENTRIA
- 51 – ADVANCED ENGINEERING CONSULTANTS
- 52 – DERBIGUM AMERICAS
- 53 – DYNAMIX ENERGY SERVICES
- 54 – SIKA SARNAFIL ROOFING & WATERPROOFING
- 55 – THE COLUMBUS COAL & LIME COMPANY
- 56 – OHIO DEVELOPMENT SERVICES AGENCY
- 57 – GARLAND INDUSTRIES

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FOOD:

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BEVERAGES

- SAFTI First
- Viper 2 Vapor Barriers

BAGS:

- Hamilton Parker Company

LANYARDS

- Marvin Windows and Doors

DROPBOX

-

HAPPY HOUR

-

DOOR PRIZES

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- National Gypsum
- NanaWall
- RAMCO Metals

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GLENNY GLASS



EDUCATION SESSIONS

8:00 AM - 9:00 AM

SESSION 101

Healthcare-Specific Sustainability: A Movement Toward Clinical Resiliency and the End of the Replacement Hospital

Presented by
Ryan Hullinger, *NBBJ*

1 AIA LU/HSW; 1 GBCI General CE

Medical practice models are evolving continuously, medical technology is advancing at an unprecedented pace, and Healthcare's funding mechanisms have become extremely volatile, especially due to recent steps toward financial reform. Each of these issues has the potential to significantly change how a new healthcare facility will be used in the future, and too often these drastic changes in use have led to premature obsolescence in hospital design. Today architects

invest tremendous effort in designing hospitals that are sustainable in terms of energy performance and environmental impact, but unless we specifically address the threat of premature obsolescence, our hospitals are destined to be inherently wasteful in the long term. Once a healthcare facility becomes obsolete, it will either be overhauled, demolished, or worse yet, left in place for decades as an underperforming workplace that frustrates staff, diminishes patient care, and squanders resources. These are not sustainable outcomes. At the societal scale, this wastefulness has afflicted trillions of dollars of healthcare spending. In order to prevent obsolescence and ensure that a medical facility's enterprise value will endure, architects are now developing strategies that maximize a hospital's ability to accommodate unforeseen change.

SESSION 102

Points for Sale, Get the Best Value

Presented by
Melissa Berardi, *ms consultants, inc.*
Jason Christoff, *ms consultants, inc.*

1 AIA LU/HSW; 1 GBCI LEED Specific BD+C and ID+C CE

What are the next steps when assembling your project scorecard after you have exhausted the low hanging fruit credits? What project design strategies do you implement next to get your project to your certification goals without breaking the bank? As many design teams know, not all LEED credits are created equal based on points per dollar. This presentation will cover a number of individual credits that were analyzed to maximize LEED performance based on the following categories: Envelope improvements, HVAC system revisions, rainwater harvesting and on-site renewable energies. The result of the case study analysis provide surprising results.

SESSION 103

Dynamic Building Envelope Closure Systems in Today's Designs

Presented by
Douglas Pearmain, *D2Marketing*

1 AIA LU/HSW; 1 GBCI General CE

Develop an understanding of joint and building movements, material options, configurations and general characteristics and capabilities of them. In addition, the flow and transition of expansion joints and closure systems are reviewed. Advanced complex transitions can be a significant challenge and are encountered more frequently with today's codes and building designs. Secondary closures, air barriers, insulated and fire rated systems and BIM will be examined. Explicit details and specifications developed prior to the bidding stage lead to successful results. Successful integration and coordination of all components is required to ensure structure excellence and long-term success.

9:30 AM - 10:30 AM

SESSION 201

New Bob Evans HQ Team Panel; Designing for a LEED Campus

Presented by
Matt Canterbury, *M+A Architects*
Joe Eulberg, *Bob Evans Corporation*
Lori Bongiorno, *M+A Architects*
Carrie Boyd, *M+A Architects*
Nikki Wildman, *M+A Architects*
John McCarty, *Corna Kokosing Construction Company*
Mike Haemmerle, *Korda/Nemeth Engineering*

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

Program description: Completed in September 2013 in New Albany Ohio, the Bob Evans new corporate headquarters is a \$35 million LEED Campus project. Three buildings make up the new headquarters campus and together composes 201,000 square feet of building. The headquarters is the largest at 163,349 SF, followed by the shipping building (24120 SF) and the training building (13,515 SF) The three buildings are registered for LEED certification under the LEED 2009 for New Construction Rating System and the headquarters is projected to earn LEED Gold. A panel consisting of the Owner, Architect, LEED Administrator, Engineers, and Builder discuss the successes and lessons learned for integrating sustainability into a brand, integrated envelope and systems design and the construction and documentation process associated with a LEED Campus.

SESSION 202

LEED EB O+M as a Tool for Continuous Improvement: Lessons Learned and Project Case Studies

Presented by
Rick Avery, *Healthcare REIT*
Ryan Hoffman, *Heapy Engineering*
Dave Deal, *Heapy Engineering*

1 AIA LU/HSW; 1 GBCI LEED Specific O+M CE

This seminar aims to briefly review the new LEED EB O+M rating system, and to share our experiences from the consultant and ownership perspective administering the LEED EB O+M rating system within two large organizations. Our discussion will help owners understand mechanisms for cutting through the red tape and achieve the desired triple bottom line outcomes that are possible as part of the EB O+M process. Our panel style presentation and discussion will cover the basics of the LEED EB O+M system, how it can be most effectively applied, highlight best practices, and describe lessons learned through applied case study projects. We'll identify how to get started with the process at any prospective building.

SESSION 203

Connecting Sustainable Pathways: How do LEED™-Living Buildings-Net Zero Energy-AIA 2030 Challenge strategies compare and complement each other

Presented by
Karen Joslin, *JOSLIN Consulting*
Allen Schaffer, *Moody Nolan*
James Porter, *HAWA, Inc.*
Derick Stadge, *BHDP Architecture*
Giancarlo Del Vita, *BHDP Architecture*
Eric Thompson, *NBBJ*

1 AIA LU/HSW pending; 1 GBCI LEED Specific BD+C and ID+C CE

The design and construction world is moving into sustainable strategies and making choices based on desired environmental benefits, but what are the formal programs available? We hear lots of talk in publications and promotional information about programs such as Living Buildings, Net Zero Energy and Architecture 2030 in addition to the ongoing development of the LEED rating systems. So how do you choose one, or is it even necessary to choose just one? Can they work together? Do they make others easier to pursue? The program will briefly review each of these proven sustainable programs and describe how each began, who participates, and how they impact design and construction projects. Our panel will discuss specific commercial project examples including LEED 2009 with different environmental priorities, a local Net-Zero Energy project, as well as the framework and goals for a Living Building certification and the AIA 2030 professional development series and the impact

on local project development. In addition our panelists will discuss the synergies between and among the programs, how they could be implemented together, and conflicts to watch out for. Project owners, design teams, and product and equipment suppliers will gain a better understanding of "how" and "why" for each of the pathways and hopefully look for ways to include them in projects going forward.

12:00 PM - 1:00 PM

KEYNOTE

REBUILDING DOWNTOWN COLUMBUS

Presented by
Guy Worley, *Columbus Downtown Development Corporation*

1 AIA LU/HSW and 1 GBCI General CE

This talk will describe the strategic planning process that culminated in the 2010 Downtown Strategic Plan, which has guided the CDDC's recent efforts to transform the downtown portion of the Scioto River into the Scioto Greenways (now well underway) and develop the Scioto Peninsula Strategic Land Use Plan. Conference participants will learn about the Scioto Greenways project from initial idea to reality, including an update on the progress of construction. Additionally, this talk will include an overview of the Scioto Peninsula Plan and its various components, including the public infrastructure and strategic investments in public spaces necessary to facilitate private development on the Peninsula.

EDUCATION SESSIONS (CONTINUED)

1:30 PM - 2:30 PM

SESSION 301

Green Libraries: Columbus Metropolitan Library's 2020 Building Program

Presented by

Wendy Tressler, *Columbus Metropolitan Library*

Don Wheat, *Pizzuti*

Michael Suriano, *NBBJ*

Tony Murry, *NBBJ*

Jonathan Barnes, *Jonathan Barnes Architecture and Design*

Tracy Perry, *Knowlton School of Architecture at The Ohio State University*

Joe Landrum

Michael Bongiorno, *DesignGroup*

Keoni Fleming, *DesignGroup*

1 AIA LU/HSW; 1 GBCI General CE

The Columbus Metropolitan Library is in the process of implementing an ambitious 2020 Vision Plan that will touch 10 neighborhoods throughout Franklin County resulting in 7 new libraries and 3 extensive renovations. This presentation will discuss the sustainable goals and strategies set by the Library. Highlights from the Driving Park, Whitehall, and Northern Lights projects will focus on lighting, storm management, and renovation strategies. The Driving Park and Whitehall projects are pursuing LEED Gold.

SESSION 302

Code Dread: Keeping up with ASHRAE and LEED

Presented by

Scott Bowman, *KJWW Engineering Consultants*

Russell Birch, *KJWW Engineering Consultants*

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

Design firms will be in the best position to meet their clients' needs by understanding and preparing for ASHRAE 90.1-2010 and LEED v4, both of which have expanded from their earlier versions and will have major impacts on buildings in the very near future. This presentation will illustrate the effect of these changes by applying the new standards to an existing LEED Silver-certified project constructed in 2008 by KJWW Engineering Consultants using ASHRAE 90.1-2004. First, a new baseline using the ASHRAE 90.1-2007 standard will be applied to the project, which is the requirement under LEED v2009. Next, a baseline for the project using ASHRAE 90.1-2010 will be applied to the project, which represents the requirements under LEED v4. Both comparisons will show the decrease in energy savings, points awarded, and strategies and cost required to bring the project back to the original energy savings and the LEED certification it might attain. The project's real-life, existing energy performance will be presented as an overlay to all of the comparisons.

SESSION 303

Tansky Sawmill Toyota – Feng Shui & LEED Unite

Presented by

Diana Garber, *Intuitive Concepts*

1 AIA LU/HSW pending; 1 GBCI General CE

The original scope of this project was to remodel the existing NW Columbus building. As the design team (Tansky family & leadership, Intuitive Concepts, and Architectural Alliance) explored options, the decision was made to pursue both Feng Shui and LEED. Toyota USA and Gensler supported this approach which resulted in the uniquely designed dealership at Rt. 161 and Sawmill Road – a 2009 Gold certified facility. The team expanded to include EM Engineering Group, Shirk & O'Donovan, Sands Decker CPS, James Burkart Associates, McCarthy Consulting, and Turner Construction. Join this informative session to hear how Feng Shui and LEED united . . . influencing not only the design but exterior (entrances, parking lot, signs, landscape) and interior (doors, lounge, offices, shapes, colors) selections. Even more profound are the results the dealership has experienced.

3:00 PM - 4:00 PM

SESSION 401

Global Harmonization: Don't Be Out of Tune

Presented by

Dean Bortz, *Columbus State Community College*

Dr. Margaret Owens, *Columbus State Community College*

1 AIA LU/HSW; 1 GBCI General CE

Starting December 2013, employers are required to train their employees on the new Global Harmonization System (GHS). GHS is a system for the classification of health, physical and environmental hazards, as well as specifying information included on labels of hazardous chemicals and safety data sheets. OSHA's Hazard Communication Standard (HCS) is now aligned with GHS. The change will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets with the goal that hazard information in the workplace will be consistent. This interactive presentation looks at the basic concepts of GHS and assist design professionals, constructors, material suppliers and owners to determine how to best orient employees and project to this new system, including improved safety in design, construction, and facilities operations.

SESSION 402

Delivering Equity for South-Western City Schools

Presented by

Todd Thackery, *SHP Leading Design*

Allison Beer McKenzie, *SHP Leading Design*

1 AIA LU/HSW; 1 GBCI General CE

With the mission of delivering equitable education, regardless of socio economic disparities, South-Western City Schools sought facility equity in its new \$247 million building program. This program focuses on SHP's design approach and the sustainable initiatives employed to achieve the district's goals and the OFCC's LEED Silver requirement across 14 new schools. It will also delve into the complexities of a project bearing such scope and magnitude, including maintaining equity across different sites and building sizes, keeping existing sites operational during construction and dealing with new delivery models for public projects in Ohio.

SESSION 403

Beta-testing a LEED v4 Project – a hands-on case study

Presented by

Eric Thompson, *NBBJ*

1 AIA LU/HSW; 1 GBCI LEED Specific ID+C CE

This talk will discuss the real-world application of LEED version 4, using as a case study a tenant improvement project recently completed by NBBJ for a major international client. As one of only 112 LEED v4 Beta test projects, and NBBJ's first and only LEED version 4 project to date, this unique opportunity offered the team a first-hand look at the opportunities and challenges of the newly upgraded system. The talk will look at new credits such as Integrative Design and the complex materials credits, as well as exploring credits that are conceptually similar to earlier versions of LEED while 'raising the bar' to new levels. As the project is in Munich, Germany, the talk will also explore the added complexities and benefits of attempting LEED v4 in an collaborative international framework using non-US delivery methods and international protocols.

4:10 PM - 5:10 PM

SESSION 501

The release of LEED v4

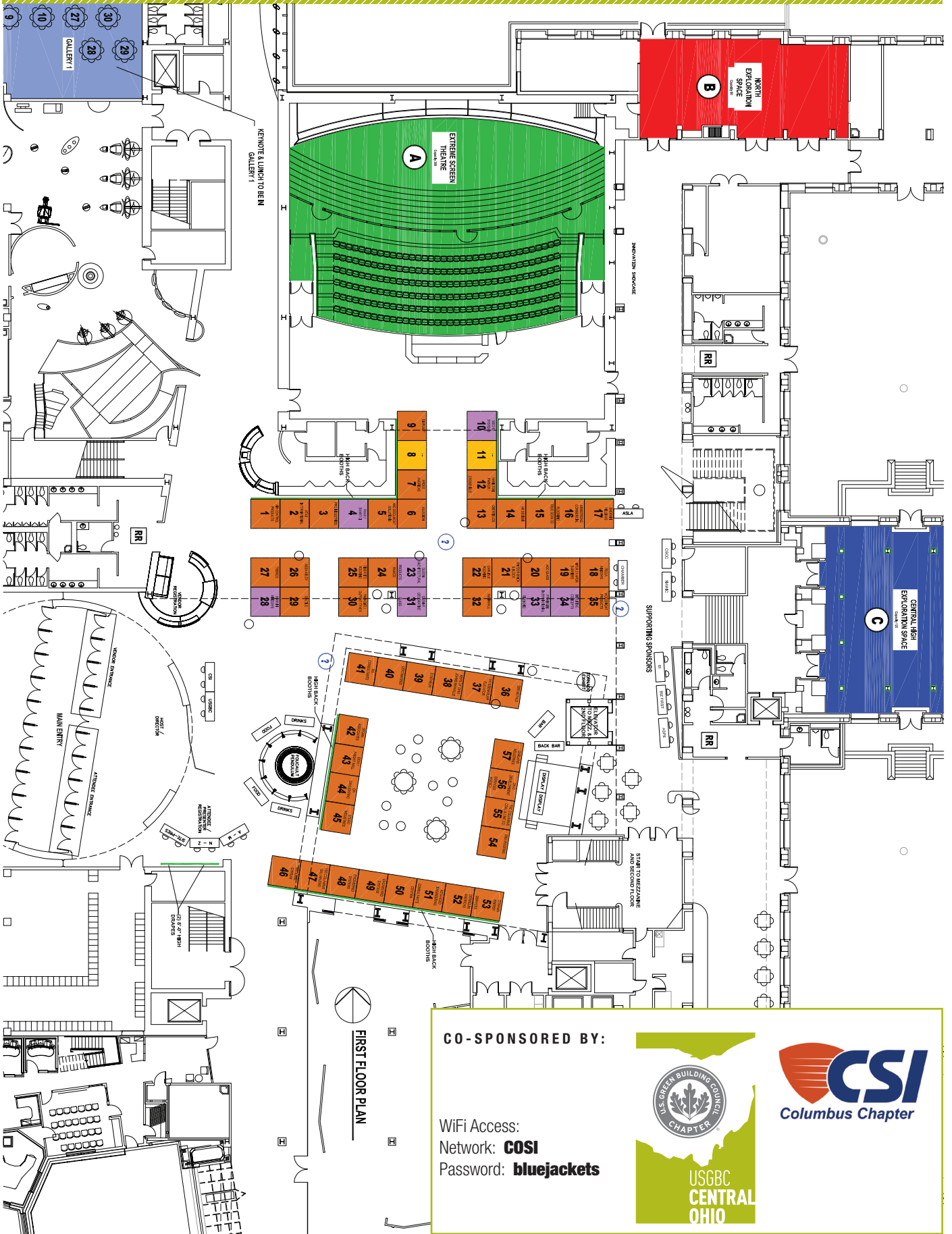
Presented by

Corey Enck, *U.S. Green Building Council*

1 AIA LU/HSW; 1 GBCI LEED Specific BD+C, ID+C and O+M CE

USGBC's LEED green building rating system has been a significant driver for market transformation since its debut in 2000. Even with much accomplished, the urgency still exist to improve our built environment. LEED v4, the next version of LEED, has just been released. This seminar will articulate the goals and expected benefits of LEED v4 and describe the reasoning behind the major changes of the rating system.

PROGRAM MAP



FIRST FLOOR PLAN

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WiFi Access:
 Network: **COSI**
 Password: **bluejackets**