

Why LEED ... and Beyond LEED

Tyson Research Center, LBC GREEN BUILDINGS Cepe Environmental Center, LBC LIVING BUILDING CHALLENGE

Co-Hosted by:







August 30, 2016 • 10 am to 5 pm



Agenda

10 AM	EXPO Opens			
11:45 AM - 1 PM	Opening Remarks / Keynote Panel Presentation		Meyer Room	
1 - 2 PM	EXPO Hour		Marshall	
2 - 3 PM	Seminars (3 Concurrent Sessions)			
	Α.	How to Implement Zero Waste in your Business	North Dining Room	
	В.	Reduce Air Pollution and Water Usage with CHP	Meyer Room	
	С.	Sustainable Community Design	Cafeteria	
3:15 PM	Seminars (3 Concurrent Sessions)			
	Α.	What is the Hanley Sustainability Institute?	North Dining Room	
	В.	LEED v4: Impact on Mechanical Systems	Meyer Room	
	C.	How Recreation is Attracting Economic Development to the Miami Valley	Cafeteria	
4·15 - 5 PM	Sponsors Reception / Networking			

4:15 - 5 PM Sponsors Reception / Networking

Join us for a Sponsors Reception immediately following the 3:15 pm Concurrent Sessions.

Cocktails and hors d'oeuvres will be provided.

Co-Hosted by:







Thank you for attending the 11th Annual Dayton Green Expo (DGE). As co-hosts of DGE-2016, we hope what you learn at today's breakout sessions will assist you in integrating sustainable strategies into your everyday approach to the built environment.

— Heapy Engineering, Dayton Regional Green, University of Dayton

Heapy Engineering

Heapy Engineering, nationally recognized for its leadership in sustainable design, provides MEP Systems and Technology Design, LEED and Energy, Commissioning and Planning Services primarily for the Healthcare, Mission Critical, Higher Education, Government and Cultural markets. The firm is involved in nearly 400 LEED and Living Building Challenge projects, with more than 50% of certified projects attaining GOLD and PLATINUM certification.

Dayton Regional Green

The Dayton Regional Green (DRG) is a leadership collaborative committed to enhancing the quality of life and environmental assets of the region by growing our economy, protecting a healthy environment, and promoting social responsibility. The DRG is partnered with IGS Energy to offer Businesses and their employees throughout the Region customized electricity rates. These rates include "green" choices that benefit both the business and the Dayton Regional Green Initiative. Sign up through IGSEnergy.com with promo code DRG3 and go green™ today.

University of Dayton

Through the Hanley Sustainability Institute, the University of Dayton's current sustainability programs will be extended campus-wide through a distinctive, highly integrated approach that will prepare students for the growing demand for sustainability skills in the workplace, as well as for civic leadership on sustainability issues. The initial objectives include: Developing an interdisciplinary graduate certificate in sustainability, creating an urban agriculture demonstration project in the Dayton community, establishing Hanley Research Fellows and Hanley Scholars-in-Residence for undergraduate, graduate and faculty research and initiating a series of conferences connecting to sustainability education.



Chair, Dayton Green Expo Michael Berning, PE, CEM, LEED Fellow

Senior Principal, Director of Sustainability, Heapy Engineering Michael leads strategic sustainability initiatives for Heapy with the firm involved in nearly 400 LEED and Living Building Challenge projects. He is a Co-Chair of

the Dayton Regional Green Initiative; President, USGBC SW Ohio Region and recently was recognized as one of just 211 LEED Fellows worldwide (and the only one in Ohio).



Donald Pair, Acting Head, Hanley Sustainability Institute

Don's approach to undergraduate education involves integrating aspects of the research experience with the classroom. His students have worked on projects ranging from surficial mapping, paleolandlside investigations, glacial landform process studies, to risk assessment studies. He has taken undergraduate researchers to locations such as the Adirondack Mountains and the Finger Lakes of New York State, the glaciers of Iceland and the Canadian Rockies.

USGBC Southwest Ohio Region

Andrew Plogsted, AIA, LEED AP BD+C, Senior Associate, GBBN Architects As a project architect, Andrew is an advocate for sustainable building practices. He has been a leader of both his firm's and the community's sustainability initiatives. Andrew is the Immediate Past President of the USGBC SW Ohio Region.

Dayton Regional Green (DRG)

Commissioner Judy Dodge, Montgomery County

Judy is a three-term Montgomery County Commissioner. She is a strong advocate for sustainability initiatives and among these she is working to expand food access and security, by establishing a local Food Policy Coalition. Judy codeveloped the Dayton Regional Green Initiative, which is focused on enhancing the quality of life and environmental assets of the region by growing our economy, protecting a healthy environment, and promoting social responsibility.

Keynote Presentation Closing Remarks *Commissioner Debbie Lieberman,* Montgomery County

Debbie Lieberman is a two-term Montgomery County Commissioner. Debbie co-developed the Dayton Regional Green Initiative (DRG). The DRG is partnered with IGS Energy to offer Businesses and their employees throughout the Region customized electricity rates. These rates include "green" choices that benefit both the business and the Dayton Regional Green Initiative.

12 PM • Keynote Panel Presentation

Why **LEED** ... and Beyond **LEED Providing Value & Return on Investment**

The 2016 Dayton Green Expo (DGE) Keynote Panel will take attendees through the "Why?" (Value) of implementing LEED projects and what is beyond, specifically using the Living Building Challenge (LBC) system. Each of these panelists have extensive experience in these topics.

- Dan Hellmuth has designed one of the very first fully operational LBC projects (Tyson Research Center at Washington University, St. Louis, MO).
- Representing the owner, Alison Zajdel's organization is currently constructing an LBC project (Cope Learning Center, Richmond, IN).
- Representing a large institutional Owner (Purdue University), Michael Gulich has been involved in the development of the AASHE STARS sustainability rating system, has implemented several LEED projects and has evaluated LBC projects for the campus.

Why they see Value in the pursuit of LEED certification and why this has led them to "reach for more" (via LBC certification), will be shared by this panel of highly regarded sustainability thought leaders. 1.5 AIA LU/HSW – 1.5 GBCI CE LEED Specific (BD+C)

Panelists



Michael Gulich, AIA, LEED AP, LFA, Director of Campus Master Planning and Sustainability, Purdue University

Michael is responsible for providing the vision, organizational strategy, and focus for advancing sustainability efforts campus-wide at Purdue University. Collaborating with students, faculty and staff, he also provides leadership in assisting the University with the continued enhancement of its efforts and reputation with regard to sustainability programs.



Daniel Hellmuth, AIA, Principal, Hellmuth+Bicknese Architects

Dan is a principal and co-founder of Hellmuth+Bicknese Architects, L.L.C. He is a LEED Accredited Professional and in addition to his experience in Sustainable Design, he has over nineteen years experience in K-12 and higher education, housing, historic preservation, and transit & transportation planning. Dan served as the first Chairman of the U.S. Green Building Council-St. Louis Regional Chapter and is on the Board of Directors for Landmarks Association.

Alison Clark Zajdel, Executive Director, Cope Environmental Center

Alison is the Executive Director at Cope Environmental Center (CEC) and oversees operations and fund development. She has been a staff member since 2001 mostly recently serving as Development Director. Before coming to CEC she attended DePauw University majoring in Studio Arts. She has her certificate in Fund Raising Management from the Fund Raising School (Center on Philanthropy) and has completed training in planned giving, grant-seeking/writing, major gifts, and annual fund development.





A. How to Implement Zero Waste in your Business Presented by: Dayton Regional Green

Panel Moderator: Lamees Mubaslat, Dayton Regional Green

Businesses are leading the way for Zero Waste to divert over 90% of their waste from landfill and incineration. This session will demonstrate how Zero Waste can be a key part of a business sustainability plan as attendees learn about the latest best practices to begin (or fine-tune) their efforts towards zero waste.

1 AIA LU/HSW – 1 GBCI CE LEED Specific (O+M)







Jessica Davis

Ste

B. Reduce Air Pollution and Water Usage with CHP

Pete Flood

Presented by: ASHRAE Dayton & West Central Ohio Assoc. of Energy Engineers *Panel Moderator: Evan Nutt, ASHRAE Dayton Chapter*

Typically, nearly two-thirds of the energy used to generate electricity is wasted in the form of heat discharged to the atmosphere. CHP is on-site electricity generation that captures the heat that would otherwise be wasted to provide useful thermal energy-such as steam or hot water-that can be used for space heating, cooling, domestic hot water and industrial processes.

1 AIA LU/HSW – 1 GBCI CE







Thomas De Genaro

Larry Pankau

Richard Pavlak

C. Sustainability Community Design

Presented by: Five Rivers MetroParks Panel Moderator: Eric Sauer, Five Rivers MetroParks

Dynamic communities are re-inventing themselves to attract and retain businesses. Communities which provide active & healthy urban centers with walkability, connectivity, recreation, entertainment and sustainability will attract the younger generations and tomorrow's work force. Businesses are seeking communities in which to live, work & play.

1 AIA LU/HSW – 1 GBCI CE





Tom Tavella



Kim Way

Presenters

Jessica Davis, Director,

IUPUI, Office of Sustainability Jessica Davis is the Director of the IUPUI Office of Sustainability and has been professionally involved in the field since 2010. Jessica provides leadership and acts as an organizational strategist for sustainability, collaborating with the academic community to integrate sustainability into the curriculum, and implementing comprehensive campus programs to promote an instinctive culture at IUPUI.

Thomas De Genaro, Sales

Manager, Kohler Power Sales Tom has 27 years industry experience with the past 15 years spent at Kohler working on industrial generator and switchgear design. Prior to Kohler, Tom spent time at Lucent Technologies in their power and UPS division and then as an electrician with the US Navy and electrical contractors in the Twin Cities and Wisconsin.

Eric Sauer, Park Planning

Manager, Five Rivers MetroParks Eric's primary focus of practice includes the integration of Low Impact Development, storm water management and green technologies such as permeable pavements, rainwater harvesting, green roofs, rain gardens and bioswales. This has allowed Eric to focus on a big picture scheme that has helped to improve the environmental and economic health of the local region.

Pete Flood, Compliance & Enforcement Mgr., Louisville / Jefferson Co. Metro Gov. Waste Mgmt Department of Public Works Mgr. of Solid Waste Mgmt Services

Pete's focus is to develop the county's short and long term solid waste management plans, track diversion, operate recycling centers, and license all solid waste management facilities and haulers. Pete is a team member of Mayor Greg Fischer's Innovation Delivery Initiative.

Larry Pankau - Engineering Liaison, Buckeye Power Sales Larry has been involved in the Electrical Power Distribution industry since 1973 as a Sales and Application Engineer. He is responsible to the engineering community in Ohio and Indiana by providing approved continuing education courses to Professional Engineers.

Tom Tavella, FASLA, LEED AP,

Senior Landscape Architect, Alta Planning + Design Tom has more than 30 years of experience in land use planning, landscape architecture and urban design. From industrial greening projects to incorporating pervious pavements, biofiltration swales and urban rain gardens, Tom has been recognized as a leader and advocate for sustainable design and planning.

Stephanie Singer, VP, Global Data Center Service Reed Elsevier

Stephanie Singer joined the Reed Elsevier organization in 1980 and has worked for Mead Data Central, LexisNexis & Reed Elsevier – Technology Services during her career. She is currently the Vice President of Global Data Center Services. She is responsible for all global RETS data center and server room facilities, global networks and network security.

Richard Pavlak, PE, ASHRAE Fellow, LEED AP BD+C,

President, Heapy Engineering Under Rick's leadership and design, projects have been recognized by the industry for their innovation and sustainable energy efficient design strategies. His expertise and green design innovations have saved significant operating expenses without compromising reliability. Rick contributes to the industry through design innovation and mentorship.

Kim Way, ASLA,

Principal, NBBJ

Kim's expertise ranges from strategic planning to development strategies, site selection studies, master planning, urban design, landscape and environmental enhancement, and sustainable implementation strategies. With over 35 years of experience, Kim contributes to all aspects of the planning, design and development process.

Eric Sauer

3:15 PM • Seminars • 3 Concurrent Sessions

A. What is the Hanley Sustainability Institute? Presented by: Dayton Regional Green

Presented by. Dayton Regional Green

Panel Moderator: Michael Berning, Heapy Engineering

Hanley Sustainability Institute aims to extend the University of Dayton's sustainability efforts campus-wide and in the Dayton community through creative collaborations, community engagement, and sustainability education. The panel will discuss present and future initiatives and efforts at the Institute to further sustainability education and experiential learning through partnerships and collaborations with community stakeholders.

1 AIA LU/HSW – 1 GBCI CE



Donald Pair, Acting Head, Hanley Sustainability Institute

Don teaches courses in environmental geology / policy, surface processes, field geology through the Colorado Field Camp, and helped develop the Dynamic Earth, the earth systems science course. He is also the Associate Dean for Interdisciplinary Research and Experiential Initiatives.



Robert Brecha, Research Director, Hanley Sustainability Institute

Bob is a Professor of Physics and teaches in the Renewable and Clean Energy Graduate Program and coordinates the Sustainability, Energy and the Environment (SEE) Minor and other SEE initiatives. Since 2006 he has been working as a visiting scientist at the Potsdam Institute for Climate Impact Research in Germany.



Kevin Hallinan, Professor and Director of the Building Energy Center, University of Dayton

Dr. Hallinan is a professor of Mechanical and Aerospace Engineering. He established the University of Dayton Building Energy Center, which provides 20 students per year experience in conducting commercial and residential energy audits. Hallinan serves as Co-Chair of the Advisory Committee for Dayton Regional Green.



Katie Schoenenberger, Coordinator for Sustainability Curriculum, Hanley Sustainability Institute

Katie is currently coordinating the Undergraduate Sustainability and Experiential Education program. She has also taught SCI 210 labs and worked with Geographic Information systems in the department and around campus.



Chris Wagner, Graduate Student, Renewable and Clean Energy Program, Hanley Sustainability Institute

Chris is currently researching anaerobic digestion as an alternative to natural gas. He recently received his Bachelor's in Mechanical Engineering at the University of Dayton with a SEE Minor and an Energy Systems concentration and is working towards his Renewable and Clean Energy M.S.

Presenters

B. LEED v4: Impact on Mechanical Systems

Presented by: ASHRAE Dayton & West Central Ohio Assoc. of Energy Engineers

Panel Moderator: Keith Valiquette, Honeywell International

The market for buildings constructed to measurable levels of sustainability continues to grow. The newest version of the program has a major change in many rating areas that impact mechanical systems. This presentation covers the USGBC LEED Version 4 release which must be used for new projects after October 31, 2016. The program covers the broad scope of changes but concentrates on some of the prerequisite and credit changes.

1 AIA LU/HSW – 1 GBCI CE LEED Specific (BD+C) (O+M)



Thomas Kelly, LEED AP BD+C

Manager of Training and Instructional Design, Carrier Corporation

Tom oversees the Carrier Training Department and teaches engineering design and sustainable design classes, including Carrier's first blended learning program, Carrier Professional Development in Sustainable Design. Tom has been approved by USGBC as a trainer for USGBC courses within Carrier. Tom is also responsible for helping Carrier develop an approach to LEED and sustainable design and serves as a primary contact to the Carrier sales organization for LEED related issues.

C. How Recreation is Attracting Economic Dev. to the Miami Valley Presented by: Five Rivers MetroParks

Panel Moderator: Becky Benna, Five Rivers MetroParks

Local communities view the Great Miami River as a valuable asset worthy of riverfront investment. Recent investment in recreation in the Great Miami River corridor is more than \$110 million and growing. Total economic development investment is more than \$300 million. **1 AIA LU/HSW – 1 GBCI CE**



Amy Dingle, Director of Outdoor Connections, Five Rivers MetroParks

Amy is the Director of Outdoor Connections for Five Rivers MetroParks working to develop strategy as well as plan and implement all public engagement efforts that support the MetroParks mission through environmental education, outdoor recreation, community sustainability and entertainment. She has been working on recreation development initiatives since 2007 and continues to advocate for additional amenities for users to have access and increase vibrancy throughout the community.



Sarah Hippensteel Hall, PhD, Manager of Watershed Partnerships, Miami Conservancy District

Sarah believes water is a critical element for community health and prosperity and communities who enjoy their rivers are more likely to protect their water. She currently serves as the Manager of Watershed Partnerships for the Miami Conservancy District, a 101-year old watershed agency. She has raised more than \$12 million to protect and restore healthy rivers and aquifers, and improve and promote river access and recreation.

Exhibitors

CALMAC A Greener Way to Air-Condition is Here	201-797-1511
ENERVEX Heat Recovery & Demand-Controlled Ventilation	513-721-2726
Energy Optimizers, USA Vendor Neutral Energy Efficiency Project Development & Implementation	937-877-1919
Vectren Energy Delivery of Ohio Incentives for Customers to Become More Energy Efficient	937-291-7134
Inpro Obsessively Protecting Your Buildings and the People Who Use Them. ™	800-222-5556
Interface The World's Largest Designer and Maker of Carpet Tile	513-470-1123
The Dayton Power & Light Company Energy Efficiency Rebate Programs Available for DP&L Customers	energyefficiency @dplinc.com
Buckeye Power Sales Distributor of Kohler Power Systems for Ohio and Indiana	513-755-2323
Lutron / Riffle & Associates Lutron Lighting Controls	513-771-0002
LEDtronics / Regional Sales Solutions Outdoor & Architectural LED Lighting Solutions since 1983	937-241-6069
BWA South Company Manufacturers' Representative	614-876-2477
Cummins Sales and Service Residential to Industrial Diesel & NG / VP Back-Up Generators & Switchgear	513-956-3058
Lighting Concepts and Controls Representing Many Quality LED Manufacturers and Controls Lines	937-398-4820
Tremco Roofing & Building Maintenance Roofing & Building Maintenance for Challenging Facility Problems	800-628-7501
The Habegger Corporation Industry Leader in Commercial Equipment	937-603-5542
Stoermer-Anderson, Inc. Innovative HVAC Systems, Services & Solutions	513-527-2300
Aeroseal LLC Duct Sealing Technology using a Patented Non-Toxic Aerosol Mist	937-428-9300
Heapy Engineering MEP & Technology Design, Commissioning, Sustainability & Energy	937-224-0861
The Garland Company Building Envelope Products for Waterproofing - Below Grade to Roof	937-239-4316
Melink Corporation Saves Energy by Automating the Exhaust Fan Speed to Demand	513-965-7300

Victaulic / IMIHydronics Innovative, Industry-Leading Pipe Joining Solutions	937-681-9340			
Johnson Controls Global Company Offering Products and Services to Optimize Energy	513-605-6305			
Ingenuity IEQ Reduce Energy, Operating Costs & Deferred Maintenance	800-669-9726			
Salt-Free Water Systems LLC Imported from Germany - Works on Systems up to 20" Pipe	317-416-3625			
Kohler Co. Commercial Faucets and Fixtures	513-250-5428			
Owens Corning Receive our New NFPA 285 Design Guide & List of Complimentary AEC Services	630-750-9459			
Waibel Energy Systems Building and Energy Services	937-264-4343			
Environmental Doctor Indoor Air Quality Specialists	937-433-5202			
Plug Smart Energy Efficiency and Facility Improvement Projects	800-518-5576			
Lathrop Trotter Commercial / Industrial HVAC & Power Plant Equipment	937-824-0227			
Starline Providing Flexible, Reliable & Customizable Power Distribution Systems	724-597-7800			
Fluid Applied Roofing LLC Stop Leaks. Save Energy. Maximize Roof Life. GO FAR!	855-865-3100			
legrand Plug Load & Lighting Control & DataComm Solutions	216-533-1728			
Rumpke Waste And Recycling Committed to Providing Environmentally Friendly Waste Disposal Solutions	937-461-0004			
Organizations - Meyer Room				
Dayton Regional Green (DRG)	daytonregionalgreen.org			
American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)	daytonashrae.org			
West Central Ohio Chapter of Association of Energy Engineers (AEE)	wcoaee.org			
University of Dayton	udayton.edu			
US Green Building Council SW OH Region	usgbc-cincinnati.org			

Great Partnership. Exceptional Benefits.



AND THE DAYTON REGIONAL GREEN INITIATIVE

The Dayton Regional Green Initiative has partnered with IGS Energy to offer Green Certified Businesses customized rates on their electricity. This exclusive partnership includes green-energy offers for both your business and your employees.

With over 25 years of energy expertise, you receive more than just clean, renewable energy; you also get expert guidance, dedicated account representatives, and proactive market communication.

How It Works

IGS Energy is providing Dayton's Green Certified Businesses with a dedicated representative to work as your trusted energy partner. Along with industry expertise, your IGS representative can offer up-to-date education on a wide variety of energy products.

When you enroll with IGS Energy through the Dayton Regional Green Initiative program, every month up to 100% of your electricity purchase can be renewable energy. By utilizing this partnership benefit, Dayton area businesses and homes are supporting renewable-energy development and the Dayton Regional Green Initiative.





FOR YOUR BUSINESS

Our go green[™] products make it easy to support renewable energy in your community. Contact your dedicated representative, Stephen Match, with a copy of your utility bill for a customized cost comparison.

> Stephen Match smatch@IGSenergy.com 937-607-0980

FOR YOUR HOME

As another DRG benefit, you and your employees also have access to competitive go green[™] or standard energy rates for your homes.

You simply log on to IGSEnergy.com and enter the promo code:

DRG3

Or call **800-280-4474** and mention the DRG3 go green[™] program.

Power-On With More Than Just Electricity

Our go green[™] rates are just the beginning of all the great benefits you receive from IGS Energy. As a direct supplier of energy, we can also offer competitive rates on natural gas for your business and your employees.

Founded in 1989, IGS Energy has been a leading advocate for change in the energy industry with the goal of offering a choice to commercial, industrial, and residential customers in energy supply. Today, the company expertly advises and helps consumers make smart energy decisions that fit their individualized needs.

The **Dayton Regional Green Initiative** is a leadership collaborative committed to enhancing the quality of life and environmental assets of the region by growing our economy, protecting a healthy environment, and promoting social responsibility.

USGBC Southwest Ohio Region





We invite you to **Join the US Green Building Council SW Ohio Region!** The benefits both personally and professionally are quite substantial. As an attendee of the **Annual Dayton Green Expo** you are undoubtedly passionate about helping clients become resource and energy efficient, saving dollars and raising the quality of life in your community.

The **USGBC SW OH Region** will help you accomplish these and other sustainably-minded, client-focused goals. We keep our members on the cutting edge of "LEED/green/ sustainable" information through our monthly Educational Series and we provide members a considerable amount of quality networking opportunities with industry leaders.

We know maintaining a working knowledge of the "latest in the Sustainability world" let alone to maintain a "LEED AP with Specialty" requires an investment of your time and money. To assist our members in this effort, as a Region member you are invited to attend our **Educational Opportunities** for free. (Additionally, we focus on providing LEED Specific Seminars to help LEED AP's meet their CE requirements).

Networking Collaboration among peers in industry related organizations is another main point of emphasis for the Region. We want to help you build your business and one of the best ways is by expanding your business network. Region members attend these events free of charge.

All this for only \$70. (Only \$50 if your employer is a National USGBC member firm and only \$30 for Emerging Professionals - students and graduates under the age of 30). Membership provides you with the latest innovative learning opportunities, a variety of ways to engage in green building activities in the region, and a valuable and expanding professional network.

Please Visit our USGBC SW Ohio Region Booth in the Dayton Green Expo to receive a (today only) discount on your new or renewal membership or to simply find out more!

The Dayton Green Expo will make a donation to the following charities; Big Brothers Big Sisters and The Foodbank, Inc.

Big Brothers Big Sisters of the Greater Miami Valley

For more information or to donate, visit www.bbbsgmv.org



The local Big Brothers Big Sisters (BBBS) organization and Heapy Engineering have joined forces to participate in its mentoring effort at Southdale Elementary School, just a block away from our Dayton Headquarters. Heapy Engineering employees are in their 4th year participating in weekly mentoring sessions with a "Little".

The Foodbank, Inc.

For more information or to donate, visit www.thefoodbankdayton.org

For 40 years, The Foodbank has served as the primary source of food for the hunger relief network in the Miami Valley. Heapy Engineering and it's employees have continuously contributed to The Foodbank, Inc. through generous donations during the holidays and Casual for a Cause Fridays for more than ten years reaching beyond the Miami Valley to Columbus, Cincinnati, Cleveland, Findlay and Indianapolis locations.



Special Thanks to ...

OUR CORPORATE SPONSORS



The carbon emissions from the 2016 Dayton Green Expo are 100% offset with renewable energy credits and carbon offsets donated by:

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