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**LEADERSHIP
DEVELOPMENT
PROGRAM**

Session 8

Beyond Green

Date: April 04, 2014

Location: USGBC; 2101 L St NW Suite 500, Washington, DC

Time: 12:00 pm – 5:00pm

Beyond Green

Program Summary:

Green design which transcends current-day standards for sustainability will be the focus of this session. Topics covered will include bio-inspired design, sustainable design at both large and small scales, and the implementation of sustainable strategies in an urban context. Participants will have the opportunity to tour a LEED certified space and also participate in a roundtable discussion on the collaborative process of green design.

Learning Objectives:

- 1.Participants will be able to identify examples of and understand the methodology associated with 'Bio-Inspired Design' its use in the design of sustainable buildings.
- 2.Participants will be able to identify strategies that can be used to create a green urban development through learning the about the sustainable initiatives that were employed in the Eco-District Project.
- 3.Participants will tour an example of a sustainable commercial interiors space to experience firsthand how a building designed with natural daylight, water efficient fixtures, and environmentally friendly materials contributes to green design.
- 4.Participants will be exposed to current trends of green design that speakers of the "Collaborative Process of Sustainable Design" Roundtable will discuss in the context of projects they have recently completed.
- 5.Participants will be able to understand the importance of collaboration between all building design and construction industry professionals (designers, engineers, contractors, owners and developers) in order to achieve long lasting green performance for buildings.

Program Abstract:

The afternoon will open with a presentation on Bio-Inspired Design given by Bill Browning of Terrapin Bright Green. Bill will discuss how buildings can lessen their toll on the environment by using nature as a precedent for design and how environmental strategies can be applied to corporations, government agencies and large-scale developments.

Immediately following, a Case Study presentation on the SW Ecodistrict Project will provide an example of how sustainable initiatives can be implemented on a large-scale existing urban context, and how district-scale thinking is shaping the future of sustainability.

A tour of the session venue, the USGBC Headquarters, will provide participants direct experience of a LEED for Commercial Interiors Platinum Certified space. Participants will learn about the sustainable strategies employed in the project such as natural daylight, water efficient fixtures, and the use of environmentally friendly materials. The session will conclude with a roundtable discussion featuring architects, engineers, contractors and building owners who will discuss the importance of the collaborative process in achieving sustainable buildings. The roundtable speakers, who have all been recognized as leaders in their field for sustainable design, will also share their industry experiences, lessons learned, and discuss what they see as future trends for green design.

Beyond Green

Date: 04/04/14

Location: USGBC: 2101 L St NW Suite 500, Washington, DC

Time: 12:00 pm – 5:00pm

Agenda:

12:00 – 12:30	Lunch Reception
12:30 – 1:30	Presentation: Bio-Inspired Design Bill Browning
1:30 – 1:45	Break
1:45 – 2:45	Case Study: SW EcoDistrict Otto Condon, AICP Diane Sullivan
2:45 – 3:25	Tour of USGBC Headquarters
3:25 – 3:30	Break
3:30 – 4:45	Roundtable: Innovation, Collaboration, and the Future of Sustainability Moderated by Ana Baker and Jason Kasperek David Bell, AIA, LEED AP BD+C Christopher Grech, RIBA Anica Landreneau, Assoc. AIA, LEED AP BD+C Bungane Mehlomakulu, PE, LEED AP BD+C Apryl Webb, AVS, LEED AP
4:45 – 5:00	Closing Comments & Housekeeping - CKLDP Committee
5:00 – 6:30	Happy Hour Stoney's 2101 L Street NW

Presentation: Bio-Inspired Design

This presentation will cover the topic of Bio-Inspired Design, or design inspired by nature, and its use in creating efficient buildings that are connected with nature. This presentation, given by Bill Browning of Terrapin Bright Green, will take a look at how buildings can lessen their toll on the environment by using nature as a precedent for design. Bill will also discuss his work in applying environmental strategies to corporations, government agencies and large-scale developments. Bill's consulting firm, Terrapin Bright Green, brings innovative ideas to a range of diverse projects and helps clients think differently about environmental strategy, policy and related opportunities.

Bill Browning | Founder, Terrapin Bright Green

William D. Browning, Terrapin Bright Green LLC, received a Bachelor of environmental design from the University of Colorado and a MS in real estate development from MIT. In 1991, Browning founded Rocky Mountain Institute's Green Development Services, which was awarded the 1999 President's Council for Sustainable Development/Renew America Prize. In 2006 he became a principal in Terrapin Bright Green LLC, which crafts environmental strategies for corporations, government agencies and large-scale developments. Browning's clients include Walmart's Eco-mart, Starwood, Yellowstone National Park, Lucasfilm's Letterman Digital Arts Center, Disney, New Songdo City, Bank of America's One Bryant Park, Google, the White House, and the Sydney 2000 Olympic Village. He coauthored Green Development: Integrating Ecology and Real Estate, Green Developments (CD-ROM), A Primer on Sustainable Building, Greening the Building and the Bottom Line, The Economics of Biophilia, and Midcentury (un)Modern. Browning was named one of five people "Making a Difference" by Buildings magazine, and an Honorary member of the AIA. He was a founding member of US Green Building Council's Board of Directors, and is the Chair of the Greening America Board of Directors. He served on the DoD Defense Science Board Energy Task Force and the State Department's Industry Advisory Group.



Bill Browning

Case Study: SW EcoDistrict

In 2009, the National Capital Planning Commission, in coordination with the U.S. Commission of Fine Arts, other federal agencies, and the District of Columbia, launched an initiative to transform a predominantly federal enclave south of the National Mall into the SW Ecodistrict. Together, these agencies which comprise the SW Ecodistrict Task Force, are designing beyond the individual building scale to reinvent this area in Washington, DC as a national showcase of sustainability. As envisioned, the ecodistrict will:

- Advance recommendations in the Monumental Core Framework Plan;
- Merge the built and natural environments to reduce greenhouse gas emissions;
- Integrate federal, local, and private uses into an active multi-modal mixed-use neighborhood;
- Reconnect an isolated area with the fabric of the city; and
- Help the federal government meet the goals and objectives of Executive Order 13514: Federal Leadership in Environmental, Energy, and Economic Performance.

Over the past year the SW Ecodistrict Task Force developed recommendations for addressing the infrastructure barriers; reconnecting the historic L'Enfant street grid; and creating an open space framework that integrates habitat and natural resources into the built environment. Specific areas of focus include:

- The design of the 10th Street Corridor and the Overlook - the heart of the ecodistrict that connects the National Mall to the Southwest waterfront.
- The design of Maryland Avenue - the prominent L'Enfant Street that could extend over the rail line, restoring a physical connection with US Capitol.
- The urban design framework around Reservation 113 and the critical open space connection between development and public transportation.

The Task Force also set aggressive goals for the ecodistrict based on Executive Order 13514 signed by President Obama in October of 2009. They include significantly reducing greenhouse gas emissions, increasing the energy and water performance of the built environment, and creating new sources of renewable energy. This course will discuss the sustainability strategies for the area, the revitalization scenarios, and the analyses that informed the Task Force recommendations.



Otto Condon

Otto Condon, AICP | Principal, ZGF Architects

With 24 years of experience, Otto Condon is an Urban Design Principal in ZGF's Washington, DC office. Originally from Minnesota, Otto has lived and worked across the country, including periods in Boston, Seattle, Portland, Chicago, and Washington, DC. Otto has been extensively involved in architecture, urban design and planning projects for downtowns, neighborhoods, transit, infrastructure and public realm improvements. He has considerable experience in the Washington, DC area working with District and Federal Agencies, Business Improvement Districts, and community organizations. His urban design and planning approach focuses on solutions that address placemaking, balancing modes, increasing pedestrian safety and sustainability.



Diane Sullivan

Diane Sullivan | Senior Urban Planner, National Capital Planning Commission

Diane Sullivan, Senior Urban Planner at the National Capital Planning Commission, has 17 years of experience in long-range planning, design and sustainability. Her role as lead sustainability planner focuses on implementing the goals of Executive Order 13514: Federal Leadership in Environmental, Energy and Economic Performance throughout the agency's initiatives for the National Capital Region, including the SW Ecodistrict. Ms. Sullivan previously worked on waterfront redevelopment projects with the Anacostia Waterfront Corporation in the District of Columbia and with the Portland, Oregon Office of Planning. She began her career at the San Francisco Planning Department. Ms. Sullivan holds a Master's in Urban and Regional Planning from Portland State University and a BA from the University of California, Los Angeles.

RoundTable Discussion

Innovation, Collaboration and the Future of Sustainability

This roundtable discussion featuring architects, engineers, contractors and building owners who will discuss the importance of the collaborative process in achieving sustainable buildings. The roundtable speakers, who have all been recognized as leaders in their field for sustainable design, will also share their industry experiences, lessons learned, and discuss what they see as future trends for green design.



David Bell

David Bell, AIA, LEED AP BD+C | Founding Principal and President, Bell Architects

David Bell has a passion and expertise for integrating history, culture and sustainable design into the built environment. An award winning District of Columbia architect, he is involved in a variety of project types, scales and uses, including Educational Facilities, Libraries, Museums, Recreation Centers, Parks, Theaters, and mixed-use and multi-modal transportation centers. Critical skills include leading the public process and engaging communities in visioning. He is an expert in rehabilitation and creative accessibility upgrades to historic properties. His skills and interest are focused on integrating technology and traditional construction to achieve superior results with respect to conserving energy, environmental, financial and historic resources. Mr. Bell is committed to DC and has served on DC Preservation League, Cultural Tourism DC and AIA DC boards and is founding chair of the AIA DC High Performance Building Committee. He has recently been named to the advisory panel for the MLK Jr Memorial Library Renovation.



Chris Grech

Chris Grech, RIBA | Director, Master of Sustainable Design Program, Catholic University of America

Christopher Grech is an Associate Professor at the Catholic University of America's School of Architecture and Planning and Director of the Master of Sustainable Design Program. He is a member of the Royal Institute of British Architects and has practiced at some of the UK's leading architectural and engineering practices such as Norman Foster & Partners, Arup Associates and Whitby Bird and Partners.

Grech also has extensive teaching experience at The University of Michigan and The University of North Carolina at Charlotte as well as Oxford Brookes University in the UK. In 2011 Grech received The Catholic University of America's Advancement of Teaching Award.

Grech's expertise lies in Construction Technology; he has co-authored two books on the subject: "The Building Envelope" and "Connections". Both these books have been translated into German, Italian and Japanese and have won publishing awards. He has also edited "The Multilingual Dictionary of Architecture and Building Terms" and "Future Office: Design, Practice and Applied Research".

Grech was moderator of AIA DC's 2030 Challenge Training Program in 2011 and 2012 and has served on the Education Coordinating Committee, Board of Direction, Building Enclosure Technology and Environment Council (BETEC). From 2011 to 2013 Grech, together with faculty from the CUArch, George Washington University and American University, headed up Harvest Home Team Capitol DC's entry to the Department of Energy 2013 Solar Decathlon which finished in seventh place.



Anica Landreneau

Anica Landreneau, Assoc. AIA, LEED AP BD+C | Principal, Director of Sustainable Consulting, HOK

Anica joined HOK's Washington, DC practice in 2007. As Global Sustainable Consulting Director, Anica manages the successful development and implementation of sustainability goals on local and worldwide projects. Anica leads the sustainable discipline in design analysis and research efforts to optimize building and site performance, development of education and training for internal capacity building at HOK, and external consulting efforts in policy creation and implementation, education and engagement programs, tools and resource development. Anica works with both public and private sectors clients on campus and master planning, individual buildings and entire real estate portfolios, including existing building stock.

Locally, Anica has worked with and continues to support the District of Columbia on local green building legislation, including triennial "greening" of building codes, policy development and implementation. Anica served on the DC Green TAG to review and adapt the IgCC 2012 for adoption by the District of Columbia in 2013 and is currently appointed to the Mayor's Green Building Advisory Council.

At a national scale, Anica serves on the Consultative Council for the National Institute of Building Sciences and national AIA committees for Energy Curriculum and AIA 2030, as well as green building codes. Anica co-authored with the U.S. General Services Administration The New Sustainable Frontier: Principles of Sustainable Development, and recently authored the Sustainable Urban Planning Guidelines for New Growth in the Kingdom of Saudi Arabia, which will be published,



Bungane Mehlomakalu

Bungane Mehlomakalu, PE, LEED AP BD+C | Principal, Integral Group

With over 10 years of engineering consulting experience, Bungane's experience encompasses integrated project delivery, building information modeling, project development and multidisciplinary team leadership. His passion for sustainable buildings is aligned with Integral Group's values and he joined the team as Principal in 2012.

With a focus on green building design and operation, he works with architects and owners to identify opportunities that lie outside the scope of traditional MEP services. He draws on his experience working with passive strategies such as natural ventilation, day lighting, plug load reductions and solar control to drive down loads and minimize the impact of active systems.

Bungane's career focuses on developing building systems that incorporate program elements, architectural intent and sustainability across multiple building sectors including higher education, K - 12, commercial, educational, institutional and science and technology. Bungane received the 40 under 40 Award in 2011 by Consulting-Specifying Engineers for his commitment to excellence. He continues to share his experience and knowledge through speaking engagements with various industry and community organizations.



Apryl Webb

Apryl Webb, LEED AP, AVS | Preconstruction Manager, Skanska USA Building

Over 10+ years in the construction industry, Apryl has demonstrated extensive experience, learned & unlearned skills and knowledge in Project Management/Operations, Field supervision, Green/Sustainability building, Value Management/Engineering, and Preconstruction including estimating from conception to completion on various types of construction projects inclusive of various types of project delivery methods.

Highly adept at assessing value engineering opportunities and suggesting alternative construction methods/systems to provide better results for similar or less economic impact. LEED accredited professional with experience in obtaining certified to platinum certified ratings. She is able to lead and motivate individuals and teams in the art of building and problem solving. She has Extensive health care, education, laboratory, commercial and government construction experience.

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