

EDUCATION SESSIONS		WEDNESDAY, NOVEMBER 18 1:30 pm - 2:30 pm	WEDNESDAY, NOVEMBER 18 3:00 pm - 5:00 pm	THURSDAY, NOVEMBER 19 8:00 am - 10:00 am	THURSDAY, NOVEMBER 19 1:30 pm - 2:30 pm	THURSDAY, NOVEMBER 19 3:00 pm - 4:00 pm	THURSDAY, NOVEMBER 19 4:30 pm - 5:30 pm	FRIDAY, NOVEMBER 20 8:00 am - 9:00 am	FRIDAY, NOVEMBER 20 9:30 am - 10:30 am
1	<b>Special Set: Collaborate</b>	<b>A01:</b> Developer's Perspective: Getting to Zero in the Free Market (Level 200)	<b>B01:</b> Deep Energy Retrofits Using Performance Contracting (Level 300) <i>2-hour session</i>	<b>C01:</b> Product Rules LEED Specific: BD+C   (Level 300)	<b>D01:</b> An Insider's Guide to Optimizing the Value of NZE Buildings (Level 200)	<b>E01:</b> Evolution of Green Building Goal Setting for Corporations LEED Specific: BD+C   (Level 200)	<b>F01:</b> How Gender and Age Impact the Path Toward Carbon-Neutrality (Level 100)	<b>G01:</b> Green Neighborhoods as Catalysts for Workforce Development (Level 100)	<b>H01:</b> Under Our Own Power: Transforming Community Sustainability LEED Specific: ID+C   (Level 300)
2	<b>Special Set: Activate</b>	<b>A02:</b> Make it Matter! How to sell when Green doesn't mean Go (Level 100)	<b>B02:</b> Everything is Food: Nutrient Systems for Cities & Buildings (Level 200) <i>2-hour session</i>	<b>C02:</b> Getting to 2030: Institutionalizing sustainability firm-wide LEED Specific: BD+C, O+M, ND   (Level 300)	<b>D02:</b> A Tribute to Performance Arrows - Improving Indoor Quality LEED Specific: BD+C   (Level 300)	<b>E02:</b> Workplace Megatrends: Envisioning the Future (Level 200)	<b>F02:</b> Renewable Energy Implementation at U.S. Diplomatic Missions (Level 200)	<b>G02:</b> Instructions NOT Included: How to Operate Net Zero (Level 200)	<b>H02:</b> Green Retail Leases: The Bottom Line Benefits of Being Green (Level 200)
3	<b>Special Set: Captivate</b>	<b>A03:</b> Watts Reimagined LEED Specific: ND   (Level 300)	<b>B03:</b> Women in Green: Expanding Diversity for Design in the Climate Change Era (Level 300) <i>2-hour session</i>	<b>C03:</b> The Power of Storytelling - 'From Mini to Monumental' (Level 100)	<b>D03:</b> Reuse Matters: Doubling Down on Carbon Savings (Level 200)	<b>E03:</b> Chemical Footprinting: The Trending Sustainability Metric LEED Specific: BD+C   (Level 200)	<b>F03:</b> Who Matters: Audiences in Sustainable Storytelling (Level 200)	<b>G03:</b> What Owners Really Hear in the Development Process (Level 200)	<b>H03:</b> Net Zero Water in Severe Drought: Santa Monica's City Hall LEED Specific: BD+C   (Level 300)
4	<b>Special Set: Ideate</b>	<b>A04:</b> DOE Better Building Challenge: Water Pilot & Success Stories LEED Specific: O+M   (Level 100)	<b>B04:</b> Creating Living Regenerative Environments (Level 300) <i>2-hour session</i>	<b>C04:</b> LEEDlab Live; Green Partnerships in Regional O&M Application LEED Specific: O+M   (Level 300)	<b>D04:</b> Big to Boutique: How Diverse Practices Approach Resiliency (Level 200)	<b>E04:</b> Expanded Thermal Comfort: Breaking New Ground with RMI (Level 400)	<b>F04:</b> Crowdsourcing Design with the 2030 District Water Calculator (Level 300)	<b>G04:</b> From the Trenches: Scalable Solutions for Existing Buildings (Level 300)	<b>H04:</b> Buildings of the Future: Visions To Guide Decision Making (Level 200)
5	<b>Special Set: Illuminate</b> (curated with IWBI)	<b>A05:</b> The Science of Circadian Lighting (Level 200)	<b>B05:</b> Green Buildings and Health: New Frontiers <i>2-hour session</i>	<b>C05:</b> Making Healthy Property Investable: Opportunities & Barriers (Level 200)	<b>D05:</b> Biophilic Design in Context: Applications for Culture & Climate (Level 300)	<b>E05:</b> Get Active - Implementing Active Design in Our Neighborhoods (Level 200)	<b>F05:</b> Measuring Circadian Light in Buildings: Findings and Actions (Level 300)	<b>G05:</b> Google's Global Approach to Sustainable Operations LEED Specific: O+M   (Level 200)	<b>H05:</b> Impact of Green Building on Cognitive Function and Health (Level 200)
6	<b>Resiliency and Engagement</b>	<b>A06:</b> Resilient Brownsville: A Plan for Public Housing in Brooklyn (Level 200)	<b>B06:</b> Empowering Green Citizens through Resident Engagement (Level 300) <i>60 minute session</i>	<b>C06:</b> Buildings & Beyond-Federal Role in Prevention and Resilience (Level 300)	<b>D06:</b> Climate Ready Multifamily Buildings - Resilient Communities (Level 300)	<b>E06:</b> Successful Models to Engage Building Service Workers LEED Specific: O+M   (Level 100)	<b>F06:</b> Results From a Living Building: The Bullitt Center Turns Two (Level 200)	<b>G06:</b> From Recovery to Resiliency (Level 200)	<b>H06:</b> Infrastructure Resilience and Public Space (Level 200)
7	<b>Building Performance and Energy Efficiency</b>	<b>A07:</b> The Next Frontier: Enabling Energy Savings in Tenant Space (Level 200)	<b>B07:</b> A Guide to Measuring Analyzing and Reducing Plug Loads (Level 300) <i>60 minute session</i>	<b>C07:</b> The World's Tallest Passive House Building: Lessons Learned (Level 200)	<b>D07:</b> Policy to Practice: Building carbon neutrality in MN & beyond (Level 300)	<b>E07:</b> Driving the Future of Green: The Value of EVs Beyond LEED (Level 200)	<b>F07:</b> Post-Occupancy Evaluation to Demonstrate LEED Energy Savings LEED Specific: BD+C   (Level 200)	<b>G07:</b> Catalyzing Behavior Change to Save Energy in Schools (Level 200)	<b>H07:</b> 203:0 Districts Approach to High Performance Small Commercial (Level 300)
8	<b>Site/Water/Community</b>	<b>A08:</b> Blue is the New Green: Designing Towards Net Zero Water (Level 200)	<b>B08:</b> Implementing District Scale Recreational Stormwater Systems (Level 100) <i>60 minute session</i>	<b>C08:</b> Building Resilience for a Shifting World: Emerging Tools (Level 200)	<b>D08:</b> 'The Wire' to Watershed: Sparking Change in Baltimore LEED Specific: ND   (Level 200)	<b>E08:</b> New Approaches to Equitable Community Development (Level 200)	<b>F08:</b> TRANSITION: LA Union Station Master Plan and LEED ND LEED Specific: ND   (Level 300)	<b>G08:</b> The Living Community Challenge in Net Positive Communities (Level 200)	<b>H08:</b> Roadmap to Policy Change: Changing our relationship to water (Level 300)
9	<b>Government</b>	<b>A09:</b> Bridging the Valley of Death for the Next Big Thing (Level 200)	<b>B09:</b> Smart Cities Start with Smart Streetlighting (Level 200) <i>60 minute session</i>	<b>C09:</b> Commercial Asset Rating - New Methods for Driving Investment (Level 100)	<b>D09:</b> Building Strong Energy Teams in the Education Sector (Level 200)	<b>E09:</b> Sustainable Development in Developing Countries: Challenges and Issues balancing all 3 legs of the stool (Level 200)	<b>F09:</b> The Impact of Green Codes on Design & Code Enforcement (Level 300)	<b>G09:</b> Partnerships for Big Impact on Energy Efficiency: How 1+1=3 (Level 200)	<b>H09:</b> Climate Preparedness & Resilience of Coastal Infrastructure (Level 200)
10	<b>Building Types</b>	<b>A10:</b> Green Apple - Green Renovation - Green Research (Level 200)	<b>B10:</b> Gundersen Health System's Journey to Energy Independence (Level 200) <i>60 minute session</i>	<b>C10:</b> Living and Learning: Lessons from the Greenest K-12: Schools (Level 200)	<b>D10:</b> Updating the Rest of the Market: Class B and C Buildings (Level 200)	<b>E10:</b> Sustainability Hospitality Design (Level 300)	<b>F10:</b> Avenue of Arts Bldg - New Habitat for Philly's Millennials (Level 300)	<b>G10:</b> Mending Mid-Century Modern LEED Specific: BD+C   (Level 200)	<b>H10:</b> Moving Parts: Modular Architecture in a Flat World (Level 200)
11	<b>Materials and Waste</b>	<b>A11:</b> Throwing Away Your Preconceived Notions About 'Waste' LEED Specific: BD+C   (Level 200)	<b>B11:</b> Trash to Cash - Building a Cost Effective Zero Waste Program LEED Specific: O+M   (Level 300) <i>60 minute session</i>	<b>C11:</b> The Maker Economy and the Rise of Distributed Manufacturing LEED Specific: ID+C   (Level 300)	<b>D11:</b> EPDs: State of the Art and Advancements by Industry LEED Specific: BD+C   (Level 200)	<b>E11:</b> Using 'Beyond LCA' Metrics to Drive Net Positive Buildings LEED Specific: BD+C   (Level 300)	<b>F11:</b> Recycling in the Age of Product Transparency (Level 300)		
12	<b>Metrics</b>	<b>A12:</b> Show Me the Data: Advances in Utility Meter Data Access (Level 200)	<b>B12:</b> Bring in the Money!!: Unlocking the Private Capital Wave (Level 300) <i>60 minute session</i>	<b>C12:</b> Re-Inventing Microgrid Power Systems for Net Zero Buildings (Level 300)	<b>D12:</b> Thinking Smart about Smart Building Data (Level 200)	<b>E12:</b> Dollars and Sense: The Impact of Greening Affordable Housing LEED Specific: HOMES   (Level 200)	<b>F12:</b> Recognizing Building Performance in the Appraisal Process (Level 200)	<b>G12:</b> Big Buildings + Big Data = Big Savings in NYC (Level 200)	<b>H12:</b> Green Light: DC's Research to Action Program (Level 200)
13	<b>LEED and Leadership</b>	<b>A13:</b> A Bird's Eye View of Sustainable Washington D.C. LEED Specific: BD+C   (Level 100)	<b>B13:</b> Green Building System Synergies: LEED-SITES-WELL LEED Specific: BD+C   (Level 100) <i>60 minute session</i>	<b>C13:</b> Sustainability Leadership: Transform your Organization (Level 300)	<b>D13:</b> Sound Matters: Acoustics in Green Buildings LEED Specific: BD+C   (Level 200)	<b>E13:</b> LEED and Long-Term Energy Performance in Public-Private Partnerships: A Technical Case-Study of the Kelowna-Vernon Hospital Project LEED Specific: BD+C (Level 300)	<b>F13:</b> Making Our Spaces Great for People and Bad for Pests LEED Specific: O+M   (Level 200)	<b>G13:</b> Moisture Durability Opportunities in Green Standards / Codes (Level 400)	<b>H13:</b> How LEED v4 Will Radically Change Daylighting LEED Specific: BD+C   (Level 400)
14	<b>USGBC Updates</b>	<b>A14:</b> LEED: New Approaches for Building Performance LEED Specific: BD+C, ID+C, O+M, HOMES, ND (Level 300)	<b>B14:</b> GRESB: A Global Platform to Accelerate Market Transformation (Level 100) <i>60 minute session</i>	<b>C14:</b> Introduction to the WELL Building Standard	<b>D14:</b> PEER: The Next Step in USGBC's Quest for Energy Innovation LEED Specific: BD+C, O+M, ND   (Level 200)	<b>E14:</b> LEED v4: Market Transformation in Action LEED Specific: BD+C, ID+C, O+M, Homes, ND (Level 200)	<b>F14:</b> Mainstreaming Green through ADVANCE (Level 200)	<b>G14:</b> Marketing & Sustainability Tools and Tips to Tell Your Story (Level 100)	<b>H14:</b> LEED Approaches For Building Performances LEED Specific: BD+C, ID+C, O+M   (Level 300)
15	<b>Master Series</b>	<b>A15:</b> Master Speaker Dr. Donald Schwarz	<b>B15:</b> Master Speaker Jake Wood	<b>C15:</b> GBCI: Building a Path to Sustainability	<b>D15:</b> Master Speaker Elizabeth Kolbert	<b>E15:</b> Master Speaker Barry Svigals	<b>F15:</b> Residential Master Speaker	<b>G15:</b> Master Speaker TBA	<b>H15:</b> Master Speaker Scot Horst

## NEW! GREENBUILD GOES RESIDENTIAL

We want to provide our growing residential community with even more learning resources by adding additional courses and events. If your focus is residential building we have a great list of sessions for you to choose from.

### THURSDAY, NOVEMBER 19

9:00 am - 10:00 am

#### RC1: Inviting LEED for Existing Buildings into your Living Room | Room: 143B

LEED for Existing Building multifamily certification is gaining traction with renters, owners, and investors with rising multifamily demand and newly available tools that facilitate LEED EB certification. Our panel of experts will walk you through these emerging trends and how you can invite LEED EB into your living room.

Speakers: Katie Ross, LEED AP O+M, Senior Project Manager - Sustainability, Cushman & Wakefield; Jared Gigliotti, LEED Green Associate, Regional Manager, Vantage Management; Inc.; Edmund Novy, LEED Green Associate, Senior Associate; Portfolio Management, PM Realty Group; contractor for American Realty Advisors

#### RC2: Improving Multifamily Engagement Through Human Dimension | Room: 143C

Optimize multifamily energy efficiency savings using psychosocial research results. Understand the value of uncovering program participant's intrinsic motivations. See how NYSERDA's multifamily program reflected deep human insights in messaging and engagement strategies designed to support the complex set of actions associated with deep retrofit programs.

Speakers: Sue Kochan, CEO, Brand Cool; Sarah Gibson, Vice President; Client Services, Brand Cool

#### RC3: Under the Hood: Inside the 2015 Green Communities Criteria | Room: 144A

Learn the rationale behind the changes in the 2015 Enterprise Green Communities Criteria, including its increased emphasis on health and integrated design, and its new focus on resilience. You'll emerge understanding how you to help building developers, program developers, and municipalities improve not only buildings but also communities.

Speakers: Thomas Osdoba, VP; Green Initiatives, Enterprise Community Partners; Katie Swenson, AIA, Vice President; Design, Enterprise Community Partners; Maribeth De Lorenzo, PhD; AICP; LEED-AP, Housing Development Advisor, DC Department of Housing and Community Development

#### RC4: Building Human Health into Multifamily Projects | Room: 143A

From IAQ to walkable communities and neighborhoods, LEED concepts are finding a new place in the conversation about health. In this session, experts from Steven Winter Associates, Inc., Neighborworks, and Green & Healthy Homes Initiative will outline top health concerns in MF, followed by best practices and tools for success.

Speakers: Maureen Mahle, LEED AP Homes; LEED AP BD+C; LEED Green Rater, Director of Sustainable Housing Services, Steven Winter Associates; Inc.; Ruth Ann Norton, President & CEO, Green & Healthy Homes Initiative; Sarah Norman, Director of Healthy Homes and Communities, Neighborworks

1:30 pm - 2:30 pm

#### RD1: Air Sealing for Architects: Tightening Up Multifamily | Room: 143B

Learn how architects use design choices, selection of assemblies, detailing, and spec writing to create multifamily buildings capable of passing the strictest blower door tests. Perfect for projects of all shapes and sizes pursuing compartmentalization criteria under LEED BD+C: New Construction, Homes, or Multifamily Midrise v3 or v4.

Speakers: Steve Klocke, RA; HERS Rater; LEED Green Rater; BPI Building Analyst, Senior Sustainability Consultant, Steven Winter Associates; Inc.; Troy Rog-Urman, AIA; NCARB, Architect, Wienczek + Associates Architects + Planners

#### RD2: Green Residential Trends: Opportunities in a Growing Market | Room: 143C

Data and insights from a multi-year study and practitioner best practices reveal how to successfully design and build green in residential single-family and multi-family markets.

Speakers: Josh Wynne, CGP; CGC; CCC; HI, Owner, Josh Wynne Construction Management; LLC; Les Bluestone, Founding Partner, Blue Sea Development Company; LLC; Stephen Jones, Senior Director; Industry Insights Research, Dodge Data & Analytics

#### RD3: Retrofitting a Single Family Home Targeting Net Zero Water | Room: 144A

Whirlpool Corporation and the Kohler Company retrofitted a home for net zero water performance. The goal was for the home to use only the water that was available onsite. Whirlpool and Kohler will discuss the project, the equipment used in the home, the challenges and results of the water retrofit.

Speakers: Eric Bowler, LEED Green Associate, Senior Engineer, Whirlpool Corporation; Rob Zimmerman, LEED-AP, Sr. Channel Manager--Sustainability, Kohler Co.

#### RD4: The Business Case for Green Multifamily | Room: 143A

This session explores the specifics about the costs, benefits, value of green on exit among other important elements of the Business Case. Two prominent Multifamily Developers will roll out the financial analysis and the high level thinking behind their successful green efforts. Presentation's aided with questions from moderator and audience.

3:00 pm - 4:00 pm

#### RE1: The New Standard for Energy Efficiency in Multifamily | Room: 143B

The release of a 1-to-100 ENERGY STAR score for multifamily buildings created a new standard for measuring, managing, and reducing energy use in this space type. This panel will feature industry experts describing how to use the score to capitalize on energy efficiency to bring value to multifamily communities. Moderator: Michael Zatz, Chief; Market Sectors Group, ENERGY STAR Commercial & Industrial Branch; U.S. Environmental Protection Agency

Speakers: Chrissa Pagitsas, LEED AP, Director; Green Initiative, Fannie Mae Multifamily; Nicholas Stolatis, CPM; RPA; LEED-AP, Senior Director - Global Sustainability & Enterprise Initiatives, TIAA-CREF

#### RE2: The SURE HOUSE: A Sustainable + Resilient Coastal Prototype | Room: 143C

In response to Super-storm Sandy, Stevens Institute of Technology students have designed and built the SURE HOUSE, a SUSTAINABLE + RESILIENT prototype for flood-proof coastal housing. This home is an entry into the 2015 Solar Decathlon and is a study into the integration of building science, solar power, and flood-proof construction.

Speakers: Edwin May, Certified Passive House Consultant, Partner, Building Type; Clarke Snell, M.Arch; CPHC, Project Faculty; SURE HOUSE, Stevens Institute of Technology; Christopher Steffens, Certified Passive House Consultant, Visiting Assistant Professor, Stevens Institute of Technology

#### RE3: The Affordability Gap: Bringing Net Zero to the 99% | Room: 144A

Explore a new model for net zero in affordable housing using integrated design and ongoing community engagement. Recognized as the 2014 Green Builder Affordable Home of the Year, the Eco-Village community in River Falls, Wis. is living proof that sustainable homes can provide tangible economic and social benefits to homeowners.

Speakers: Jay Lund, Chairman; President & CEO, Andersen Corporation; Jim Cooper, LEED AP; CPHC, Project Manager, St Croix Valley Habitat for Humanity; Christopher Ptomey, JD, Director of Government Relations, Habitat for Humanity International

#### RE4: Making Sustainable; Life Inspiring; Low Energy Dwellings Normal | Room: 143A

Speakers: Tedd Benson, Founder & Company Steward, Bensonwood & Unity Homes

