The Pathway to Sustainability is a Journey

APRIL 16 & 17, 2012
UMUC Inn and Conference Center, University of Maryland, College Park, MD
Welcome to the 7th annual Smart and Sustainable Campuses Conference at the University of Maryland! The Smart and Sustainable Campuses Conference is produced by the University of Maryland with the support of the National Association of College and University Business Officers, several other higher education associations, corporate representatives, and campus partners.

This year, the conference has been designed with the intent of creating an event that provides opportunities for deeper learning. Past attendees have stated that, as our campus sustainability programs and challenges evolve, we need a collective opportunity to discuss and share our lessons learned with more time and in greater depth. This conference tries to not only present a learning environment for newcomers and veterans, but also share more detailed approaches toward our breadth of campus sustainability challenges and opportunities.

The theme of this year’s conference is “The Path to Sustainability is a Journey.” As college and university sustainability programs mature, we increasingly realize that the journey requires a high level of commitment from senior administrators, faculty, staff and students. That commitment is not easy when decisions must be made in light of other institutional priorities and limitations including campus growth, funding and infrastructure. We increasingly realize that the beginning of the journey is somewhat difficult, but “low hanging fruit” opportunities can galvanize campus efforts to support a sustainability mandate. More challenging is the stage of the journey requiring a higher level of commitment and having an organizational structure to facilitate the path forward. Sharing our best practices, lessons learned and most effective approaches is critical to the success of our institutions if they are to move along the path of becoming sustainable campuses. Never has it been more evident that success will be built upon the sharing of this information between campus professionals and connecting it to our culture, curriculum, research and infrastructure.

The Program Committee is excited that you are here and ready to participate in the conference. We hope this event provides you valuable information that you can share with your campus colleagues and that you make new connections as we move higher education along the path to a more sustainable future.
Washington Gas Energy Services (WGES) is proud to make this a carbon neutral conference with WGES CleanSteps® Carbon Offsets, sourced from local projects benefitting the Mid-Atlantic.

In partnership with WGES, one of the largest energy suppliers in the Mid-Atlantic region, the conference is offsetting 102 tons of greenhouse gas emissions and contributing funds to new clean air and water projects managed by the Chesapeake Bay Foundation, an independent organization that works to restore and protect the ecological health of the Chesapeake Bay and its tributary rivers. WGES CleanSteps® Carbon Offsets have a global environmental impact by reducing greenhouse gas emissions, a local environmental impact by contributing to the health of the Chesapeake Bay Watershed, and a local economic impact by supporting offset projects in the Mid-Atlantic region. This year’s offsets were generated by taking trucks off highways in the Chesapeake Bay region and moving them via rail instead, and preventing the release of methane from a landfill near Ocean City, Maryland. WGES carbon offsets also support multiple agricultural and horticultural projects that are aimed not only at creating greenhouse gas emission reductions but also reducing pollution in the Chesapeake Bay. To put the conference’s carbon offsets in perspective, reducing 102 tons of greenhouse gas emissions is like:

- Taking 20 passenger vehicles off the road for a year;
- Converting more than 12 average homes to renewable power for a year;
- Planting 425 trees in a typical Maryland urban forest; or
- Removing 115 tons of food scraps from the landfill and composting it.
On behalf of the students, faculty and staff at the University of Maryland, welcome to the Smart and Sustainable Campuses Conference. We are extremely proud to be hosting you again this year and we look forward to the rich discussions, collaborations and synergies that will result from our time together.

I would also like to welcome you to the City of College Park. While visiting, we hope that you will enjoy the many amenities of College Park. Visit our local restaurants or enjoy a walk on our multi-use pathways. Mayor Andy Fellows and I are working together to make this city one of the top 20 college towns in the nation. Explore our town and see why College Park is a great place to call home.

“Home” is a word that means a great deal in the context of sustainability. Our global challenges remind us that we all share this one planet and we must respect its resources and each other, now and for generations to come. Yet global problems are solved with local solutions, so we are also reminded of the profound importance of transforming our local communities into models of sustainability.

This year marks the 150th anniversary of the Morrill Act, the legislation that established land-grant universities. Given our global challenges and need for local solutions, I believe the nation’s land-grant universities have the opportunity to help transform communities across the country and lead the transition to a sustainable society. Of course, this work should not be left to land-grants alone. Colleges and universities everywhere can be the force that tips the balance toward sustainability.

Much of this work is already underway, thanks in large part to your efforts. Much of the work that remains will be initiated by you, which is why I am delighted you are here. This conference is not only an important opportunity to share and learn from each other, but also to support and inspire the next generation of sustainability researchers and practitioners.

Once again, I am delighted to welcome you to the University of Maryland. Best wishes for a successful conference.

Sincerely,

Wallace D. Loh
President
A big thank you to our 2012 Smart and Sustainable sponsors! This conference is a success because of their support.

Platinum level sponsor

Gold level sponsor

Silver level sponsors

Haley & Aldrich

Washington Gas Energy Services

WasteStrategies

www.wastestrategies.com

Sponsors

Substantial planning and support have gone into making the 2012 Smart and Sustainable Campuses Conference operationally green. This program is printed on FSC-certified paper. Ninety percent of this program is comprised of 100% post-consumer content recycled paper. The Marriott Inn & Conference Center at the University of Maryland University College was the first LEED-certified hotel in the nation. Conference meals include locally grown produce and vegetarian options, as well as compost collection for dining waste. Dedicated volunteers from Food Recovery Network—a network of student groups and individuals at the University of Maryland—will deliver leftover food to local organizations that serve the homeless and extremely poor. Thanks to a generous contribution from Washington Gas Energy Services (WGES)—one of our Silver Sponsors—for the fifth consecutive year, the conference is carbon neutral. WGES has balanced estimated greenhouse gas emissions from air travel, vehicle travel, hotel stays, energy use, landfilled waste and paper use to zero with WGES CleanSteps® Carbon Offsets.

Badges

Please wear your name badge at all times during the conference. It is your admission ticket to sessions, meals and other conference programming. We will have drop boxes available to recycle your name badge at the end of the conference.

Student Scholarships

Thanks to scholarships provided by the University of Maryland, more than 20 students are able to participate in the conference!

Continuing Professional Education Credits

NACUBO is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. Up to 12.5 CPEs in Specialized Knowledge and Applications will be available for this program. Directions for downloading CPEs will be provided by e-mail following the program.
Please visit our exhibitors, located in the Main Concourse.

1. WasteStrategies
2. OneEnergy Renewables
3. VHB/Vanasse Hangen Brustlin
4. Office Max
5. RMF Engineering
6. Eneractive Solutions
7. Spring City Electrical Manufacturing
8. Holt Paper
9. Gardland Industries-Green Building Envelope Solutions
10. Somat Company
11. 8760 Engineering
12. Washington Gas Energy Services
13. Dero Bike Racks
14. Tremco Roofing & Building Maintenance
15. Anvil Knitwear
16. Ecorite Imaging
17. Constellation Energy
18. URS Corp.
19. Coastal Business Machines
20. Creative Water Solutions
21. Pilot/ReBinder/Cane Fields
22. Water Management
23. ThinkEco Inc.
24. myActions
25. Intercap Energy Systems

Evive Station
### SUNDAY, April 15th

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<tr>
<th>Time</th>
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<tr>
<td>8:00am</td>
<td>Breakfast</td>
<td>Room 1123</td>
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<td>9:00am</td>
<td>Pre-conference Workshop: <em>(Pre-registration required)</em></td>
<td>Room 1123</td>
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<td><strong>Professional Development for Campus Sustainability Professionals</strong></td>
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<td></td>
<td>Leith Sharp, Chair, Sustainable Futures Academy</td>
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<td>Aurora Winslade, Director, UC Santa Cruz Office of Sustainability</td>
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<td>12:00pm</td>
<td>Lunch</td>
<td>Room 1105</td>
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### MONDAY, April 16th

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<tr>
<td>7:30am</td>
<td>Breakfast and Registration Open</td>
<td>Main Concourse</td>
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<td>8:40am</td>
<td>Concurrent sessions and workshops</td>
<td>Breakout Rooms</td>
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<tr>
<td>11:30am</td>
<td>Lunch, sponsored by <strong>Waste Strategies</strong></td>
<td>Grand Ballroom</td>
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<tr>
<td>12:30pm</td>
<td>Opening Remarks: Robert M. Specter, Vice President of Administrative</td>
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<td>Affairs, University of Maryland</td>
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<td><strong>Keynote Address:</strong> <em>Who are the Change Makers?</em></td>
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<td>Leith Sharp, Chair, Sustainable Futures Academy</td>
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<tr>
<td>2:00pm</td>
<td>Concurrent sessions and workshops</td>
<td>Breakout Rooms</td>
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<tr>
<td>3:00pm</td>
<td>Coffee Break, sponsored by <strong>Haley &amp; Aldrich</strong></td>
<td>Main Concourse</td>
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<td>5:00pm</td>
<td>Afternoon Plenary: <em>The Journey to Transform the Built Environment</em></td>
<td>Grand Ballroom</td>
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<td></td>
<td>Brendan Owens, Vice President of Technical Development, USGBC</td>
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<td>Closing Remarks: Heather Stefani, <strong>Anvil Knitwear</strong></td>
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<td>6:00pm</td>
<td>Networking Reception, sponsored by <strong>Anvil Knitwear</strong></td>
<td>Main Concourse</td>
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### TUESDAY, April 17th

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<th>Time</th>
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<tr>
<td>8:00am</td>
<td>Breakfast and Registration Open</td>
<td>Main Concourse</td>
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<td>9:00am</td>
<td>Student Plenary: <em>Students Leading Campus Projects</em></td>
<td>Grand Ballroom</td>
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<td>Manuel Abarca, University of Central Missouri;</td>
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<td>Johnathan Glencross, McGill University;</td>
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<td>Rebecca Schroeder, University of Pittsburgh</td>
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<td>10:10am</td>
<td>Concurrent sessions and workshops</td>
<td>Breakout Rooms</td>
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<td>11:30am</td>
<td>Lunch</td>
<td>Grand Ballroom</td>
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<td>12:30pm</td>
<td>Plenary Session: <em>Fostering Sustainable Behavior on Campus</em></td>
<td>Grand Ballroom</td>
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<td>Dr. Doug McKenzie-Mohr, President, McKenzie-Mohr Associates Inc.</td>
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<tr>
<td>1:30pm</td>
<td>Concurrent sessions and workshops</td>
<td>Breakout Rooms</td>
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<td>3:00pm</td>
<td>Coffee Break, sponsored by <strong>WGES</strong></td>
<td>Main Concourse</td>
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<td>3:30pm</td>
<td>Closing Ceremony: <em>Change Management - The Musical!</em> - An Open Mic</td>
<td>Grand Ballroom</td>
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<td></td>
<td>Surprise Tribute to the Arts and Transformation</td>
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<td>Leith Sharp, Chair, Sustainable Futures Academy</td>
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### WEDNESDAY, April 18th

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<th>Time</th>
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<tr>
<td>8:00am</td>
<td>Breakfast</td>
<td>Room 1123</td>
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<td>9:00am-4:30pm</td>
<td>Post-conference Workshop: <em>(Pre-registration required)</em></td>
<td>Grand Ballroom</td>
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<td></td>
<td><strong>Fostering Sustainable Behavior</strong></td>
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<td>Dr. Doug McKenzie-Mohr, McKenzie-Mohr and Associates</td>
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<tr>
<td>12:00pm</td>
<td>Lunch</td>
<td>Mt. Claire Room</td>
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FOOD KEY

1. Sweet Green 🍃
2. Mosaic Cafe 🍷
3. Potbelly Sandwich Shop 🥪
4. Krazi Kebob 🧆
5. Chipotle 🌶
6. Noodle & Company 🍜
7. Jason’s Deli 🥪
8. Umd Food Co-Op 🍃

Organic Options
Vegetarian Options
Local Food Options

College Park

The Diner
AV Williams
Stamp Student Union
Inn & Conference Center
University of Maryland College Park

1. Sweet Green 🍃 8300 Baltimore Ave.
3. Potbelly Sandwich Shop 🥪 7422 Baltimore Ave.
4. Krazi Kebob 🧆 4427 Lehigh Road
5. Chipotle 🌶 7332 Baltimore Ave.
7. Jason’s Deli 🥪 7356 Baltimore Ave.
8. Umd Food Co-Op 🍃 Stamp Student Union
Shuttle Schedule
We have responded to your feedback. The Smart and Sustainable Campuses Conference will be running a FREE shuttle bus between the nearest subway stop - College Park-U of Md Metro stop on the Green Line – and the Inn and Conference Center. All times below are for a continuous loop between Metro and UMUC.

5:00 pm – 7:00 pm on Sunday
7:30 am – 9:30 am on Monday and Tuesday
5:00 pm – 7:00 pm on Monday
4:00 pm – 6:00 pm on Tuesday

Monday Night Dinner Shuttle
We will be providing a FREE shuttle from the Inn and Conference Center on Monday evening to a local restaurant district. The shuttle will depart after the Monday evening reception and return later in the evening.

Hyattsville

9. Franklins Restaurant 🍔
10. Busboys and Poets 🍔
11. Elevation Burger 🍔
12. Calvert House Inn 🍔
13. Yes Organic Market 🍔

5121 Baltimore Ave.
5331 Baltimore Ave.
5501 Baltimore Ave.
6211 Baltimore Ave.
5331 Baltimore Ave.
The last two decades of effort and progress achieved by the higher education sustainability movement has revealed several key insights into how we can unleash a profound acceleration of the transformation process, driving sustainability into the core business of higher education. This plenary will share several of these insights with attention given to the day-to-day reality of campus operations and how the individual can be a change maker.

Leith Sharp has spent 20 years working to drive sustainability into the core business of the higher education sector. Leith began her career by establishing one of world’s first campus sustainability programs at the University of New South Wales, Australia. For her innovative work in Australia, Leith received numerous awards including a Churchill Fellowship and Young Australian of the Year (Environment Category).

In 1999, Harvard University recruited Leith to be the founding director of Harvard’s Office for Sustainability. Under her leadership, Harvard came to have the largest green campus organization in the world, becoming a recognized global leader in campus sustainability. For her work at Harvard Leith received numerous awards from the EPA, the City of Cambridge and the Boston Society of Architects.

In 2009 Leith was recruited to be the start-up Executive Director for the Illinois Green Economy Network, a partnership of 48 community college Presidents working together to drive green economic growth across Illinois. Leith is currently the founding Chair of the Sustainability Futures Academy, an international collaboration between developing and developed countries.

Leith has a bachelor of environmental engineering from the University of New South Wales and a Master of Education (human development and psychology) from Harvard University.

Eighteen years ago the founders of USGBC set out on an incredible mission – to realize a future where resources were abundant, individuals were healthy and communities were flourishing. The tool for this transformation was the LEED Green Building Rating System and the goals established were ambitious. Brendan Owens, vice president of LEED technical development, will present the next chapter of LEED and the efforts underway at USGBC to transform the built environment into a future state where buildings restore the environment improving the quality of life for all people.

Brendan Owens is USGBC’s vice president of LEED technical development. In this role, he collaborates with volunteer technical committees to evolve and refine USGBC’s LEED Green Building Rating System. During his time at USGBC, Brendan has led development activities for several LEED rating systems and is currently focused on the next LEED update scheduled for release in 2012.

Brendan is a delegate to the UNEP/SBCI (United Nations Environmental Programme Sustainable Buildings & Construction Initiative) Think Tank on Benchmarking Sustainable Buildings and represents USGBC on the executive committee for Standard 189.1. He is also on the board of directors for the New Buildings Institute. Prior to joining USGBC, Brendan worked designing, implementing and verifying performance contract based energy conservation projects in existing buildings.

Brendan is a LEED Accredited Professional and a licensed Professional Engineer. He received his Bachelors of Science in Engineering from Purdue University in West Lafayette, IN.
Student Plenary Panel:  Students Leading Campus Projects

MANUEL ABARCA, Graduate Student, University of Central Missouri

JOHNATHAN GLENROSS, Undergraduate Student, McGill University

REBECCA SCHROEDER, Undergraduate Student, University of Pittsburgh

Tuesday at 9:00 am, Grand Ballroom

Students are often catalysts for short-term or new sustainability projects on their campus, and the voices for innovative change. But they can also be drivers of long-term strategy, comprehensive behavior change, campus-wide initiatives, and peer-to-peer educational programming which successfully transform campuses to a more sustainable community. Learn more about the ways in which students are leading institutional change on campus.

Closing Plenary: Fostering Sustainable Behavior on Campus

DR. DOUG MCKENZIE-MOHR, President, McKenzie-Mohr Associates Inc.

Tuesday at 12:30 pm, Grand Ballroom

How is community-based social marketing being applied throughout the world to foster sustainable behavior? Dr. McKenzie-Mohr introduces the five steps of community-based social marketing (selecting behaviors, identifying barriers and benefits, developing strategies, conducting a pilot, and broad scale implementation) and illustrates how they can be applied to foster sustainable behaviors on university campuses.

For over two decades, Doug McKenzie-Mohr, an environmental psychologist, has been incorporating scientific knowledge of behavior change into the design and delivery of community programs. His best-selling book, “Fostering Sustainable Behavior,” has been recommended by Time magazine and his work featured in the New York Times and the Wall Street Journal. He has trained over 50,000 environmental program planners in the use of community-based social marketing — an approach that is now being utilized in thousands of programs worldwide.

Closing Ceremony: Change Management: The Musical!
An Open Mic Surprise Tribute to the Arts and Transformation

LEITH SHARP, Chair, Sustainable Futures Academy

Tuesday at 3:30 pm, Grand Ballroom

Conferences do content well. We get important information, ideas and inspiring examples. But where do we go to advance our creativity, spontaneity, risk tolerance, good will, collaboration, vitality and wholeness? There is a growing understanding that we need these attributes more than ever to be effective change makers. That’s why our closing plenary invites you to co-create an experience that goes beyond our professional roles to reach the whole person and to fuel insight, humor, emotion, compassion and connection so that you leave us energized as well as informed. We are looking for collaborators that share our interest in this creation. If this sounds too fluffy, consider this - the closest distance between us is humor. Our greatest insights arrive not from focusing on specific details but on dancing between contradictions and diverse information. Experiences of music and compassion ignite more of the brain than most other experiences. The brain is first and foremost a social organ. We live to connect and emotions are contagious. So of course we need a musical!
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<th>Time</th>
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<td>10:10</td>
<td>ACUPCC Implementation Liaison Networking Meeting</td>
<td>Engaging your Team = Greener Science Labs</td>
<td>&quot;What does sustainability mean to you?&quot; Radio’s role in fomenting sustainability literacy</td>
<td>Measure, Message, Motivate: Building an inclusive campus sustainability culture</td>
<td>Georgia Tech’s Innovative Landscape Master Plan is a Living-Learning Laboratory</td>
<td>Integrated energy solutions that help college campuses meet sustainability goals</td>
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<td>Students as Strategic Partners in Climate Action Planning</td>
<td>Fostering a &quot;Sustainable&quot; Environment of Change through Student Advocacy</td>
<td>Commissioning and Facility Assessment for High Performance Buildings</td>
<td>Green Roof Design for Sustainable Campuses</td>
<td>Overview of on-site waste treatment options</td>
<td>Sub-institutional Planning: developing community-scale strategies and actions</td>
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14TH ANNUAL ILA GLOBAL CONFERENCE

Leadership Across the Great Divides:

Bridging Cultures, Contexts, and Complexities

24-27 October 2012
DENVER, USA

www.ila-net.org/Conferences

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Green Team Spirit: Building a Culture of Sustainability in Athletics

Although a zero waste stadium is a huge undertaking and accomplishment, there are numerous other facets of sustainability in athletics. Transportation, athletic staff and coaches committed to sustainability in the office and on the field, water saving opportunities, energy consumption in athletic facilities, student athlete dining and waste, and design and construction of athletic buildings are all areas where there is room for improvement. Numerous institutions have improved these aspects, but often their achievements go unrecognized. This presentation will highlight such accomplishments and go into detail on the importance of collaborating with various departments on campus to accomplish these goals.

Allison Potteiger, Yale University Office of Sustainability

Room 0101     Conference Track: Fostering Behavior Change

On the CUSP: Washington, D.C.’s College and University Sustainability Pledge

The District of Columbia Mayor’s College and University Sustainability Pledge (CUSP) is designed to be a meaningful yet flexible commitment intended to produce tangible benefits for DC’s local environment and community. Signatories choose from a menu of performance areas in which to take action, such as energy, water, waste, green education and training, and jobs and community development. Using the DC CUSP as a standard, the colleges and universities in the District of Columbia are collectively committed to making Washington, DC the Greenest College Town in America.

Joshua Lasky, University of the District of Columbia
Chris O’Brien, American University
Audrey Stewart, Georgetown University

Room 0109     Conference Track: Community Connections

Rocky Branch Revival: Restored Stream Serves as Outdoor Teaching Lab

Rocky Branch, an urban creek that runs more than a mile through NC State University’s campus, was restored to create a safe and accessible outdoor environmental teaching laboratory. The restoration focused on stabilizing the creek; improving water quality, aquatic and wildlife habitat; and integrating the creek into the campus environment. The highly degraded stream had been channelized and its floodplains filled. Heavy development within its drainage area resulted in a narrow, deep stream, with severe erosion – an unsafe eyesore. Students, faculty and staff from across the university contributed to the transformation of this neglected and forgotten natural resource.

Barbara Doll, NC Sea Grant

Room Chasen     Conference Track: The Campus as a Learning Laboratory

Get Started with the New, Online Campus Carbon Calculator

In a shift that will support campus climate leadership and streamline the carbon management process, Clean Air-Cool Planet’s Campus Carbon Calculator will be moving from its longstanding Excel format to a new, dynamic online application in summer, 2012. Learn what improvements and changes to expect and how they might affect your work. Participants will receive materials to help plan and organize their FY2012 inventory process, including information on what inputs are tracked in the new tool, implications for data collection, how new features will simplify the process, and how the online Calculator will relate to other sustainability tracking systems.

Jennifer Andrews, Clean Air-Cool Planet
Julie Paquette and Jeffery Murphy, Sightlines, LLC

Room 0105     Conference Track: Strategic Implementation
**Lifecycle: A Holistic Conversation**
Experiences on sustainability’s journey make our vision deep and holistic. We see the materials we use to make objects in a new light, not only measurable criteria like embodied energy and recyclability, but also how the ethic behind their use represents our relationship to the Earth. The industrial revolution and modernism gave us our last great material ethic. Now sustainability is prompting us to realize a new material ethic, a value set upon which the art of design is based. Working in groups, participants will engage case studies, examples, and individual perspectives to further develop their qualitative and sustainable material ethic.

*Peter Larson and Calvin Ahn, Ashley McGraw Architects, P.C.*
*Rex Giardine, Syracuse University*
*Room 1105*  
*Conference Track: Life Cycle of the Built Environment*

**Optimization Strategies for Classrooms and Class Labs**
Current trends driven by economic and institutional realities are focused on the optimization of space. At the same time pedagogies have shifted and the size, shape, and furnishings of many existing instructional spaces on campuses are no longer appropriate for the collaboration, project based learning methods used today. This highly interactive workshop will lead participants through the process of evaluating existing instructional space for both general classroom and class lab uses. The participants will understand how to evaluate space both quantitatively and qualitatively. Strategies for optimization will include those driven by facilities and those requiring operational shifts.

*Christine Albright, Perkins Eastman Architects*  
*Cynthia Linhart, Linhart Consulting*  
*Room 1123*  
*Conference Track: Community Connections*

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### 40-Minute Concurrent Presentations

**MONDAY 9:30AM**

**Energy Efficiency Retrofits, Measurement & Education Achieve Savings**
Valencia College in Orlando, FL owns and operates buildings on 4 campuses for their full life cycles. Retrofits of existing buildings capture energy savings for financial benefits, and reduce greenhouse gas emissions for reporting under the American College & University Presidents’ Climate Commitment. Energy consumption has been reduced by approximately one third over a five-year period, primarily through lighting and HVAC improvements. An aggressive program to achieve savings through evening and holiday shut down procedures has a staff member focused on monitoring effectiveness, doing unoccupied energy audits and communicating with facilities staff. Program details will be shared.

*Deborah Green, Valencia College*  
*Room 0101*  
*Conference Track: Life Cycle of the Built Environment*

**Moving Towards Sustainability: An Administrative Roadmap for the Journey**
Engaging a division of 15 departments and 1900 employees around issues of sustainability can seem daunting; nonetheless staff in the Division of Student Affairs at the University of Maryland have been on a journey to educate employees, create change, assess progress, and instill a sustainability mindset throughout the division. This session will share how the Division’s Sustainability Committee has evolved; its challenges and accomplishments in moving beyond talking about sustainability to being very intentional in all aspects of department planning; project development and implementation; and staff and student education and awareness.

*Cindy Felice and Maria Lonsbury, University of Maryland*  
*Room 0109*  
*Conference Track: Strategic Implementation*

**My Actions Impact Yours**
MyActions.org is a student-developed competitive and cooperative climate action program with a twist. Using Web 2.0 and mobile technology, this system is a real time, peer-to-peer, conservation-action tracking and reward program. MyActions.org uses “gamification” to promote positive behavior change. Campuses can measure and track behavior change when students voluntarily participate and report. This program also includes a charitable giving component that connects students to acts of philanthropy for the planet. Session participants will engage in a simulation of the MyActions.org competition to experience the satisfaction and appeal of instant feedback and motivational rewards.

*Craig Young and Kathy Myers, MyActions.org*  
*Halli Bovia, University of Southern California (USC)*  
*Room Chasen*  
*Conference Track: Fostering Behavior Change*
### 80-Minute Concurrent Workshops

**MONDAY 10:20AM**

**Higher Education’s Role in Adapting to a Changing Climate**

Colleges and universities have a unique role and responsibility to help society prepare for the unavoidable impacts of a changing climate through education, research, campus operations, and community engagement. Business officers, trustees, and senior administrators need to understand the threats, and manage the associated financial, health, and safety risk accordingly. This session will provide a basic overview of climate adaptation, specific steps for senior administrators to take, and an interactive format to learn from activities at peer institutions. It will focus on the roles of trustees, business officers and presidents, as well as the unique social justice implications of the adaptation challenge.

- David Caruso, Antioch University of New England
- Georges Dyer, Second Nature

Room 0105  
Conference Track: Strategic Implementation

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**Innovative Tools to Build a Dynamic Energy Plan**

One of the greatest challenges for Michigan State University (MSU) is how to reliably meet the university’s growing energy needs while reducing negative impacts of power generation. MSU has its own co-generation power plant that burns coal, natural gas and biofuels. We know that in the long-term, fossil fuel sources will either be no longer available or will be too costly to use. As such the university set a vision to move to 100% renewable energy. In this presentation, we will provide our path and show examples of innovative tools to build a deliberate, diverse, and dynamic Energy Transition Plan.

- Jennifer Battle, Lauren Olson, and Sarah Herbst, Michigan State University

Room 1105  
Conference Track: Strategic Implementation

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**Global Strategies for Campus Sustainability: An Integrated Approach to Implementation**

The seminal challenge for campus sustainability comes to effective and comprehensive implementation. How can we integrate all activities, from grass roots initiatives, to campus operations; research and curriculum; and presidential policies? Is it possible to address all the issues of sustainability (including energy and carbon, natural systems, food, purchasing and waste) while the campus continues to pursue its mission as the first priority? And, how can we capture sustainability—holistically and comprehensively—in a framework that makes sense? This session will outline a fully comprehensive approach that incorporates all campus activities and constituents into a hierarchy of actions.

- Brodie Bain, Perkins+Will
- Aparna Dial, The Ohio State University

Room 1123  
Conference Track: Strategic Implementation

### 40-Minute Concurrent Presentations

**MONDAY 10:40AM**

**Making It Stick: Using Online Pledges to Sustain Behavior Change**

Pledges can be one of simplest and most cost-effective approaches to sustaining pro-environmental behavior change. However, to reap the full benefit of this strategy, it is crucial to integrate certain research-supported details. UNMC has designed an online-based pledge tool that incorporates research on social norms, choice architecture, and the consistency principle, in order to increase the efficacy of this strategy. Attendees will learn how they can start or enhance their own pledge programs to foster sustainable behavior change on campus, as well as hear about the best practices and potential pitfalls associated with using an online-based pledge tool.

- Melanie Stewart, University of Nebraska Medical Center
- Chris Stratman, Verdis Group

Room 0101  
Conference Track: Fostering Behavior Change
Advancing Campus and Community Sustainability: Strategic Alliances in Action
Universities provide a leadership role in the development and mobilization of knowledge to meet societal needs. They can serve as agents of sustainable development, on campus and in the communities of which they are a part. The University of British Columbia (UBC), Okanagan campus has made sustainability a strategic priority. Among many actions, (UBC) has developed multiple cross-sectoral partnerships and strategic alliances to further this aim. This session will outline community connections and partnerships developed to advance sustainable campus operations, student and faculty research opportunities, and sustainable community development. Outcomes and lessons learned that can be adapted by others will be shared.
Leanne Bilodeau and Jackie Podger, University of British Columbia, Okanagan Campus
Room 0109
Conference Track: Community Connections

Unique, Universal Learning Environment: Classroom, Campus, and Maryland’s Eastern Shore
Serving Maryland’s middle/upper Eastern Shore, Chesapeake College leads, demonstrates and raises awareness of innovative and applied environmental practices on its rural green campus. The Center for Leadership in Environmental Education (CLEEn) net-zero energy project embraces the College’s commitment to sustainable practices, serves as a learning laboratory, and incorporates an array of technologies and strategies in its facility and programs. Located alongside U.S.Route 50, the landmark project symbolizes and demonstrates how an evolving agricultural region and economy can take advantage of its unique location and environment. The College’s public-private partnerships and pursuit of grant-funding opportunities have facilitated completion of the first phase.
Bruce Manger, Hord Coplan Macht, Inc.
Gregory Farley, Chesapeake College
Room Chasen
Conference Track: The Campus as a Learning Laboratory

40-Minute Concurrent Presentations

Performance Contracting for Energy Savings
The University of Kentucky partnered with Ameresco to build, operate and maintain energy efficient upgrades in 61 buildings across their Lexington, KY campus through new operations, renovations and maintenance. Attendees will gain knowledge of the Energy Savings Performance Contract (ESPC) process, including how it is implemented and the financial implications for an institution; learn the specific elements required for a major energy efficiency retrofit, covering construction and design, operations and management, advanced technologies and innovations, opportunities for renewable energy and building automation; and learn best practices for student engagement, education and behavior change, exploring effective tactics that were assessed using actual energy usage data.
Dave Anderson, Ameresco
Shane Tedder, University of Kentucky
Room 0101
Conference Track: Life Cycle of the Built Environment

Fast, Furious, and Sustainable: Shifting Your Program Into Top Gear
Advance your institution’s sustainability program to the next level. Learn about the successes and failures of the University of the District of Columbia’s Sustainability Initiative and its tactics to push the envelope: leveraging push and pull factors, addressing obstacles, engaging the audience, and creating healthy disruption. The session will explore how to use your university’s sustainability efforts to gain external relevance and build internal capacity while gathering critical momentum.
Joshua Lasky and Howard Ways, University of the District of Columbia
Room 0109
Conference Track: Strategic Implementation

Food Security: A Means Towards a Resilient Local Economy
This presentation provides a replicable community economic development sustainable action plan—from the City of Berea, Kentucky and in collaboration with Berea College— to deepen the community-college connections that demonstrate a community’s commitment to sustainability. A set of guiding principles, assumptions, challenges and recommendations emerging from five community work groups will be illustrated. Participants will take home examples of the Sustainable Berea Neighborhood Food Feast (NFF), Cultural Tourism Asset Inventory, Leakages Analysis, SWOT exercise, and social media campaign model for replication back home.
Peter Hackbert, Kelly Kusumoto, Matthew Callo, and Anna Kate McWhorter, Berea College
Room Chasen
Conference Track: Community Connections
MAKE YOUR FRIENDS GREEN WITH ENVY:

THE STYLISHY SUSTAINABLE TEE

Anvil is a leader in the sustainable apparel industry with its AnvilOrganic® and AnvilSustainable™ brands made from innovative fibers such as certified organic cotton and recycled P.E.T. bottles. Anvil offers consumer education, including TrackMyT®, which chronicles the life cycle of a t-shirt from seed to store. Learn more at www.AnvilKnitwear.com.

Style 450 AnvilSustainable™ Tee - 50% organic combed ring spun cotton (or 50% ring spun organic cotton in conversion) & 50% Post-Consumer P.E.T. Recycled Polyester.
**Sustainability Planning with Deliberative Democracy Techniques**

Creating space for students, staff and faculty to work together is a powerful means to build a sustainable campus. Learn about the University of Alberta’s award-winning Deliberation on Campus Sustainability (DoCS), an innovative campus engagement project. Discover how this project guided a diverse group of campus community members through the process of deciding on campus sustainability priorities, co-creating recommendations for strategic planning, and discovering action projects for implementation. In this session, participants will access lessons learned through our case study, obtain hands-on experience in a facilitated deliberative dialogue process, and engage in participatory learning.

Trina Innes, Lisa Dockman, and Logan McIntosh, University of Alberta

Room 0105  
Conference Track: Strategic Implementation

**Institutionalizing Green Building: Lessons Learned from 100+ LEED Buildings and Internal Energy Auditing**

In July 2011, Harvard achieved its 50th LEED certification, more than any other higher education institution in the world. This session will share strategies to institutionalize green building, create organization-wide policies, and ensure sustainable asset management through systems thinking, institutionalizing new practices, building knowledge and internal capacity, and promoting continuous improvement. The process of developing the Green Building Standards will be used to share lessons learned across buildings to promote change management and bring about organizational change. Additionally, speakers will present key institutional drivers and resources that led to a successful commitment for energy auditing requirements.

Andrea Trimble and Kevin Bright, Harvard University, Green Building Services

Room 1105  
Conference Track: Life Cycle of the Built Environment

**Sustainability Officer Forum: Professional Development Needs Assessment by AASHE**

AASHE is launching a strategic planning process to determine the professional development needs and interests of Sustainability Officers (SOs) in Higher Education. It is important for AASHE to hear directly from individuals who currently fill this leadership role at HE institutions. The workshop will engage SOs in a participatory needs assessment process identifying the skills and knowledge, challenges and issues of the SO position. With your help, AASHE will be better prepared to respond, design and deliver training and resources that are relevant and useful for this important leadership role in advancing sustainability.

Cynthia Thomashow, AASHE

Room 1123  
Conference Track: Strategic Implementation

**Strategic Facility Planning for Energy Efficiency and Sustainability**

If you are re-thinking your energy consumption and the “carbon impact” of your campus, you may be interested in new ideas around generating savings from your energy budget. This presentation will emphasize a longer term, holistic approach to energy and climate planning for sustainability. Concepts will be introduced to demonstrate investment strategies that incorporate longer-term planning to determine the real value of savings available from energy improvements. Issues such as accounting for future energy and climate change risk factors will be covered, along with the “benchmarking” of campus facilities while “future-proofing” your campus and your career.

Conrad Metcalfe, Performance Systems Development  
Christopher Russell, American Council for an Energy-Efficient Economy

Room 0101  
Conference Track: Strategic Implementation

**Campus Conservation Nationals: Lessons Learned in Reducing Dormitory Resource Use**

During fall of 2010 and spring of 2012 hundreds of colleges and universities participated in the Campus Conservation Nationals, an electricity and water use reduction competition in residential housing. The goals of this competition were to engage, educate, motivate and empower students to conserve resources and become better advocates for environmental stewardship. On each campus, dormitories competed against each other, while schools competed in peer groups for the greatest overall reduction. In 2010 to assess the efficacy of the program participants and organizers were surveyed, results were analyzed for resource savings, and successful behavior change and organizing strategies were identified.

Andrew deCoriolis, Lucid, Campus Conservation Nationals  
Patrick Lane, Center for Green Schools, US Green Building Council

Room 0109  
Conference Track: Fostering Behavior Change
Limits to Closing the Loop? Overcoming Challenges to Implementing Zero Waste Programs

“Why can’t we reduce our waste?” A simple question posed on campuses throughout the U.S. has led to a surging movement in food waste separation. This major component of zero waste programs creates demand for more anaerobic digesters, composting facilities, and improved organics recycling infrastructure. However, the pioneering colleges implementing zero waste programs are now confronting the limitations of their regional infrastructure. This workshop will thoroughly explore these limitations, using the Washington DC region as a case study. Participants will also discuss issues within their own regions, and collectively provide strategies for closing the waste-to-resource loop on and beyond campus.

Cam Weimar, Catholic University
Chris O’Brien, American University
Room 0105
Conference Track: Strategic Implementation
Assessing Your Campus’s Potential for Greening Existing Buildings with LEED

With the highest percentage of LEED certified square footage compared to any other market sector, higher education has made great strides to transform the built environment. However, only 7% of this square footage represents existing facilities on campus. Learn how the LEED for Existing Buildings: Operations & Maintenance rating system can be used as a framework for integrating sustainable practices and policies into your campus operations. The workshop will present a five step process for campus implementation, discuss opportunities for streamlining LEED certification, and provide attendees with tools & resources to support institutional efforts. Multi-disciplinary campus teams are encouraged to attend the workshop to gain the largest benefit.

Jaime Van Mourik, Center for Green Schools at the U.S. Green Building Council
Emily Curley, American University
Christopher Davis, Green Building Certification Institute

Room 1105  Conference Track:  Life Cycle of the Built Environment

Laboratory Sustainability - Developing a Green Labs Program

Typical laboratories may consume 5-7 times more energy than traditional office buildings. How should your organization decide which measures to take for promoting resource conservation in a laboratory facility? Are you considering developing a program to promote sustainable practices within labs? This presentation will provide information and ideas to consider toward implementation of a Green Labs program at your campus. Topics discussed will include: decision making in program design, internal support, challenges, staffing needs, and communication and marketing.

Michael Ochs, Arizona State University
Alicia Murchie, Longwood Campus, Harvard University

Room 1123  Conference Track:  Fostering Behavior Change

40-Minute Concurrent Presentations

MONDAY 3:40PM

Living and Learning in TerraHaus, a Passivhaus Residence

In the fall of 2011, ten students moved into a unique campus residence; TerraHaus is the first American college residence designed to meet the Passive House standard, the highest international standard for energy efficiency. This 2200 square foot residence is modeled to use less than 10% of the heating load for a typical home this size in this climate. In fact, in zero degree weather, the heating load could be met with a standard hair dryer. Working with several off-campus collaborators, our students and faculty have used this living laboratory to promote elements of energy sustainability on and off campus.

Douglas Fox, Unity College

Room 0101  Conference Track:  Life Cycle of the Built Environment

How to Implement an Effective Green Office Program

Green Office programs are a great opportunity to engage with your full-time building occupants (faculty & staff) while enhancing the campus using a lens of sustainability. By connecting directly with these valuable stakeholders, your institution can gain important insight into how the building can be improved through occupant experience. The program also allows for a third party to verify that office spaces are set-up to be as sustainable as possible. Guilford College’s Green Office program creates change by using a multifaceted approach that includes presentations, in-person surveys, and incentives to become certified along the program’s seed to tree scale.

Bryce Bjornson, Guilford College

Room 0109  Conference Track:  Fostering Behavior Change

Linking Campus Sustainability to Hands on Training

With campuses going green, these efforts can be used as teaching opportunities for students to get real hands-on experience. Sustainability is being tied into formal and informal coursework experiences of students. From students in building trades using campus structures for lessons on HVAC systems, weatherization, and energy efficiency, to students in the culinary arts learning about local food sourcing, gardening and composting, there are ways that students in any discipline can connect with hands-on green experience in their field or general education requirements. We will share campuses’ successes and challenges in linking sustainability and greening efforts to hands-on training.

Jen Fournelle, National Wildlife Federation

Room Chasen  Conference Track:  The Campus as a Learning Laboratory
Poster Presentations

Located at Networking Reception, Monday 6:00 pm – 7:30 pm

**Developing a Sustainability Minor:** Model, Lessons, and Community Engagement, by Alexander Wait and Lora Vess, Missouri State University

**Green Leadership Academy for Diverse Ecosystems:** Partnerships for youth development, by Janice Schnake Greene, Missouri State University

**Is it Shower Time?** Perceived verse Reality Shower Lengths in Residence Halls, by Courtney Washburn, University of Tennessee, Knoxville

**Planning the Net Zero Energy Campus of the Future,** by Robert Diemer, In Posse and James Sebesta, AKF Group

**Sustainability in Research:** Recycling Laboratory Plastic, by Lisa Sanzenbacher, University of Illinois at Chicago

**Adapting Community-Based Social Marketing for a Resident Student Eco-Rep Program,** by Emily Curley, American University

**Business Fitness:** How Organizations Should Get in Sustainable Shape, by Frank Fogarty and Kelly Pippins, University of Maryland and Smithsonian Institute

**This Sucks!** Addressing Vampire Energy on College and University Campuses, by Jessica Trotman, University of North Carolina at Greensboro

**A University–Community Exploration of Sustainable Farming,** by Jennifer Coffman and Wayne Teel, James Madison University

**Blue + Yellow = Green:** Environmental Sustainability in the Office of Residence Life at UD, by Rebecca Krylow and Amberdawn Griffith, University of Delaware

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Measure, Message, Motivate: Building an Inclusive Campus Sustainability Culture

Campuses around the world are tracing sustainability metrics, but how do we communicate those measurements in a way that engages and empowers students, staff, and faculty? Our university has developed a visibility plan to complement our sustainability strategy. We have established graphic identity guidelines and identified which communications tools are practical and effective. We formed a student-based visibility team that includes designers, writers, and number-crunchers. This group works with the sustainability staff to develop materials on overlapping weekly, monthly, annual, and periodic timelines. They translate the university’s sustainability metrics into fact sheets, posters, news items, classes, training sessions, and more.

Melissa Goodall, Yale University

Georgia Tech’s Innovative Landscape Master Plan is a Living-Learning Laboratory

While most universities have a Campus Master Plan, very few have a Landscape Master Plan. Fewer have a Cistern Master Plan. Learn how to think beyond a traditional Campus Master Plan in developing holistic tools that fully integrate the ecological and human landscape into a performance landscape that transforms the campus culture, and expands academic and research opportunities across the university. The Eco-Commons is a place where Ecology and Technology join to create a sustainable collegiate setting in a modern metropolis, enhancing the holistic integration of the campus framework, while expanding the university’s mission.

Howard Wertheimer and Anne Boykin-Smith, Georgia Institute of Technology

Integrated Energy Solutions That Help College Campuses Meet Sustainability Goals.

Through a hands-on workshop, this session will discuss specific sustainable solutions to the challenges college campuses are currently facing. In an effort to create green jobs and a more sustainable future, Mount St. Mary’s University partnered with Constellation Energy to construct a 16.1 megawatt DC photovoltaic solar installation in Emmitsburg, MD. Under a 20-year power purchase agreement, the system is expected to produce 22 million kilowatt hours of emissions-free electricity per year. The Mount St. Mary University case study will show attendees how the evaluation, customization, and execution of the agreement made this project successful.

Greg Fox, Constellation Energy
Joan Kowal, University System of Maryland

ACUPCC Implementation Liaison Networking Meeting

Signatories to the ACUPCC commit to achieve climate neutrality in campus operations, and graduate sustainability-literate students. An Implementation Liaison (IL) leads the effort on each campus and benefits from sharing ideas and strategies with counterparts on other campuses to foster the learning goals of the network. This session is only open to ACUPCC ILs.

Toni Nelson, Second Nature
**Engaging your Team = Greener Science Labs**
Science buildings with lab hoods and process systems use significantly more energy than typical academic buildings. Numerous factors must be considered when programming or designing a new building to ensure successful operation and long-term energy use. By examining several successful case studies, this interactive session will explore a range of activities to help improve space efficiency, reduce the number of hoods needed to meet program requirements, and optimize your MEP systems, including energy recovery and proper controls. Presenters will also reveal key steps owners should take to ensure that their investments provide a safe and efficient building.
Jeremy Oberc and Scott Clark, EYP Architecture & Engineering
John Cannon, College of the Holy Cross
Room 1105
Conference Track: Fostering Behavior Change

**“What Does Sustainability Mean to You?” Radio’s Role in Fomenting Sustainability Literacy**
Graduate students at Penn State created Sustainability Now Radio to develop sustainability literacy at Penn State and in the Centre Region of Pennsylvania. The show is a campus-hosted public education program that explores facets of sustainability. Our guests include people in community-supported agriculture, IPCC members, and Lifetime Ambassador of Peace Award winners. We will show attendees the basics we used to create the show’s structure, and how to use supporting virtual spaces for further and deeper education for sustainability. Our effort could, with sufficient investment, provide sustainability-minded people and institutions with a media model for a sustainability living laboratory.
Peter Buckland, Penn State University, Education Theory and Policy
Room 1123
Conference Track: The Campus as a Learning Laboratory

**40-Minute Concurrent Presentations**

**TUESDAY 11:00AM**

**Building Your Community One Coat Hanger at a Time**
A program like Wellesley College’s Sustainable Move-Out/Move-In can be a major success on any college campus if planned wisely and executed efficiently. Through working on the project in its early stages to now, we have learned that making it easy to be sustainable enables community involvement; turning volunteers into workers attracts more behind the scenes assistance; and working with various departments on campus fosters smoothly-run operations. If you would like to learn more about how this program promotes community participation and how to start one on your own campus, attend our session!
Patrick Willoughby and Danielle Gaglini, Wellesley College
Room 0101
Conference Track: Fostering Behavior Change

**Evaluating Your University’s Waste and Recycling Billing Rates**
The University of North Carolina faced a unique challenge when they decided to restructure billing rates for a new and improved waste and recycling collection program – the rates and costs of the program were outdated and lacked solid structure. This case study will present the process for researching and addressing issues in best practices for billing a waste and recycling collection program, as well as provide discussion on the components of a successful billing structure.
Marty Seaman, Resource Recycling Systems
BJ Tipton, University of North Carolina
Room 0109
Conference Track: The Campus as a Learning Laboratory

**Shades of Green: A Practical Approach to Cleaning for Health and the Environment**
Discussion will lead the audience through the challenges of converting a university residential cleaning program to a nationally certified green cleaning program. The University of Maryland’s Department of Residential Facilities journey through the “Shades of Green” will be highlighted, along with the challenges. In 2009, Residential Facilities earned Certification with Honors in the International Sanitary Supply Association’s Cleaning Industry Management Standard (CIMS) and the Green Building criteria (CIMS-GB).
Jeff McGee, Residential Facilities
Room Chasen
Conference Track: Life Cycle of the Built Environment
Green Roof Design for Sustainable Campuses
Within this workshop, we will discuss the need for vegetated roofs and tell a brief history. We will identify the various green roof design types, learn how vegetated roofs have a positive effect on storm water management, and discuss other critical benefits. Attendees will receive practical advice about how to plan and implement your next green roof project. The audience will learn about variables and choices used to design and implement green roofs in all types of construction projects.

William Foley, Tremco Roofing and Maintenance Systems
Chris O’Brien, American University
Room 0101

Overview of On-Site Food Waste Treatment Options
This presentation will provide an overview of the available food-waste treatment options available today. Covering a range of manufacturers and their products, starting from the garbage can to complex pulping and dehydrating systems. Diversion efforts, from composting to roof top gardens, and general best practices for onsite treatment of food waste will also be covered.

Lin Sensenig, Somat Company
Greg Thompson and Allison Lilly, University of Maryland
Room 0109

Fostering a “Sustainable” Environment of Change Through Student Advocacy
Follow the University of California’s Dining Team on a journey to be one of America’s most sustainable campuses and in particular, most sustainable dining programs. The team includes over 600 student employees and over 200 career employees who work together to educate, energize and institute a behavior change in fellow team members, the general student body, faculty and staff.

Lin Tang, University of California, Irvine
Robert G. Perez and Katy Hueber, University of California, Irvine
Room 1105

Commissioning and Facility Assessment for High Performance Buildings
Commissioning and facility assessment are terms familiar to those in the sustainable building community, but many wish to learn more about the process and benefits. This presentation will describe the commissioning and facility assessment processes, why they are necessary for high performance buildings, and how they are applied in the various stages of the building life cycle. Finally, the difference between new and existing building commissioning will be discussed.

Mike Eardley and Mark Nelson, Cannon Design
Jason Burbank, University of Massachusetts
Room 1123

Students as Strategic Partners in Climate Action Planning
How can students be useful in the process of Climate Action Planning, greenhouse gas inventory data-collection, and the long-term implementation of the American College and University Presidents’ Climate Commitment (ACUPCC) goal of climate neutrality and institutional sustainability education? Students are resourceful partners—both for short-term projects such as data-collection, and for long-term strategic planning and implementation such as achieving interim climate neutrality targets, managing financing mechanisms, or providing co-curricular educational programming. Learn and share strategies for recruiting and implementing reliable interns, independent study students, or passionate volunteers in order to strengthen and support institution-wide climate action projects.

Sarah Brylinsky, Second Nature
Room 0105

Change Leadership in Higher Education: Driving Sustainability into the Curriculum?
This workshop will present current international research on change leadership in higher education as it relates to greening the curriculum or education for sustainability (EFS). Over 180 EFS change leaders have recently completed a comprehensive survey exploring the demands and nature of being a change leader for EFS. This workshop will engage participants in an exploration of these important research findings with a goal to advancing their own efforts in being a successful change leader for EFS. The workshop is led by Leith Sharp in collaboration with Cindy Thomashow.

Leith Sharp, Sustainable Futures Academy
Cindy Thomashow, AASHE
Room 2112
Students as Strategic Partners in Climate Action Planning
How can students be useful in the process of Climate Action Planning, greenhouse gas inventory data-collection, and the long-term implementation of the American College and University Presidents’ Climate Commitment (ACUPCC) goal of climate neutrality and institutional sustainability education? Students are resourceful partners—both for short-term projects such as data-collection, and for long-term strategic planning and implementation such as achieving interim climate neutrality targets, managing financing mechanisms, or providing co-curricular educational programming. Learn and share strategies for recruiting and implementing reliable interns, independent study students, or passionate volunteers in order to strengthen and support institution-wide climate action projects.
Sarah Brylinsky, Second Nature

Change Leadership in Higher Education: Driving Sustainability into the Curriculum?
This workshop will present current international research on change leadership in higher education as it relates to greening the curriculum or education for sustainability (EfS). Over 180 EfS change leaders have recently completed a comprehensive survey exploring the demands and nature of being a change leader for EfS. This workshop will engage participants in an exploration of these important research findings with a goal to advancing their own efforts in being a successful change leader for EfS. The workshop is led by Leith Sharp in collaboration with Cindy Thomashow.
Leith Sharp, Sustainable Futures Academy
Cindy Thomashow, AASHE

Buy Greener, Be Greener: Colleges, Universities, and Green Purchasing
The motivation for green purchasing comes from concerns about how environmental issues relate to the future of people’s lives. Green purchasing also increases efficiency: reducing operational expenses, reducing demand for natural resources, and lessening environmental impact. We should purchase goods and services that conserve energy, minimize pollution and packaging, eliminate negative disposal impacts, and encourage reduction and reuse. Because purchasing departments negotiate and award all contracts, they can become the centers for screening the environmental impact of all goods and services and possibilities for outgoing waste. The competitive bidding process should require contractors to meet sustainable goals and metrics.
Adam Smargon, University of Delaware
**Waste Management and Student Involvement**

This fall, University of Virginia students, instructors and operations staff teamed up to effect positive change for the school’s waste management division by way of an interdisciplinary global sustainability course. This 40-minute session will cover the context of such collaboration, and the power of applying knowledge—gained in a classroom setting—to solving real-world sustainability problems on campus. The presentation will also take a closer look at: lessons learned from mentoring students in a way that fulfills classroom requirements and sustainability communication parameters; and the importance of establishing relationships between all project stakeholders to ensure the success of campus sustainability.

Kendall Singleton, University of Virginia Dining/ARAMARK  
Room 0109  
Conference Track: The Campus as a Learning Laboratory

**Pedaling Change on Campus: Cool the Earth, Heat Up Habits & Appeal.**

Bicycle share programs are a cost-effective, behavior-changing, and alluring avenue in the charge to create sustainable campuses and communities. Bicycle share programs can vary based on maximization of financial returns, sustainability and healthy living goals. Moreover, each time a student or staff member uses a bicycle, it is a step in creating lifestyle changes that students and staff can take with them off campus. Finally, in today’s competitive market to attract prospective students, bike programs have become innovative recruiting tools because of the multitude of benefits attributable to them beyond sustainability.

Lizzu Nasiedlak, Bokoo Outdoor Solutions  
Robert Taylor, Clemson University  
Room 1105  
Conference Track: Fostering Behavior Change

**Monitoring Based Commissioning Success Stories from the Left Coast**

Improving the energy efficiency of campus facilities takes time and commitment. In this presentation, representatives from EnerNOC and Cal State / UC will discuss their proven approach to monitoring-based commissioning (MBCx), including the challenges and successes that have been encountered along the way. The goal of MBCx is to reduce energy usage and costs in existing campus buildings and central plants, while providing long-term monitoring and staff training to ensure persistence of savings. EnerNOC acted as the MBCx provider for over 60 projects, resulting in energy savings exceeding 11,900,000 kWh/year and 375,000 therms/year – that’s over $1,800,000 per year!

John duPont, EnerNOC, Inc.  
Paul Wingco, California State University  
Room 1123  
Conference Track: Life Cycle of the Built Environment

**Sphagnum Moss for Swimming Pools: Treat Water, Save Resources and Save Money**

Water quality management in campus aquatic centers affects the health of clients, cost of maintaining water quality, facility equipment, and buildings. The University of Maryland’s Student Sustainability Green Fund and Campus Recreation Services worked with Creative Water Solutions to test a sustainable, plant-based, water treatment system. Dr. Knighton will describe the treatment system, the supporting science, results in water chemistry, and effects on filtration and air quality. Amanda Delaney, Manager of Pool Operations, Eppley Recreation Center, will discuss implementation of the test, her experience with the system, and the effect of the system on cost and sustainability.

David Knighton, Creative Water Solutions, LLC  
Amanda Delany, University of Maryland, Eppley Recreation Center  
Room Chasen  
Conference Track: The Campus as a Learning Laboratory