Energy Centers Move Forward

The three new energy centers initiated by the Penn State Center for Sustainability in 2010 all continue to move forward in 2011.

The Northern Mid-Atlantic Solar Education and Resource Center launched its first class in November 2010—"Introduction to Photovoltaic System Design and Construction." This introductory course aims initially at community and technical school instructors in Pennsylvania, West Virginia, Delaware, and New Jersey. More online courses and hands-on workshops in solar thermal and advanced topics are slated for launch this Spring.

The Smart Grid Training and Application Resource Center (GridSTAR) added Greg Dobbs, Director of Distributed Energy Education Programs, to the project team. Dobbs, a former Representative to the Upper Northeast Regional Council at United States Green Building Council, will direct activities of the emerging center from the new Energy Innovation Hub at the Philadelphia Navy Yard.

The National Energy Leadership Corps (NELC) sent student teams to perform pilot home-energy efficiency assessments in the Center County and Fayette County region starting Feb. 9, 2011. The program intends to be open to public applications in Spring 2012.

-Dr. David Riley
Director, Center for Sustainability

2011-2012 PACE Update

Building A Collaboration Culture

With all of the activity and interest being generated through the award of the Department of Energy / Greater Philadelphia Innovation Cluster, the Architectural Engineering Department has been working on building a collaboration culture within the department as well as with its industry partners. The hub recently held its first charrette with the entire team of partners and researchers to identify program and research needs for the Navy Yard renovation, targeting 50% energy savings.

The Navy Yard facility will serve as a physical hub for the GPIC researchers to interact along with an educational and showcase facility for the systems and research taking place within its walls.

The construction faculty are all engaged in the process, modeling, and outcomes of the project and are actively working with Penn State to find strategies for a more integrated design and construction delivery given the project constraints.
Dr. Michael J. Horman Memorial

The memorial is designed and in the process of being constructed to honor Dr. Michael Horman’s dedication and commitment to the department, as well as to commemorate the impact Dr. Horman had on his students, colleagues and friends during his time at the University. The design utilizes the lower level blue stone patio adjacent to the Pennsylvania Morningstar Solar Home. The memorial will serve as an outdoor gathering and grilling space to host guests and visitors of the Center. Currently, the memorial fund is 80% of the way to the targeted $40,000 goal.

http://www.engr.psu.edu/pace/pace/horman_memorial.asp

S:PACE Update

The 2010-2011 academic year has been very busy for S:PACE. With the help of our industry members, S:PACE was able to coordinate over fifteen information sessions in addition to a Networking Workshop that helped introduce younger students to the AEC industry. These sessions were crucial to educating students while promoting interaction with industry professionals. To date, approximately 83 percent of members are currently committed to summer internships or full time positions.

In addition to introducing students to employment opportunities, S:PACE organized its annual AE of the Year Event. The pageantry style competition tested the qualities and talents of the program’s most creative students who competed for a chance to be crowned AE of the YEAR. Organized to benefit the Sharron Williams Scholarship Fund, the event saw increased audience attendance and participation while bringing the AE student body together. The success of this year’s fundraiser was largely due to industry support and sponsorship; S:PACE would like to thank Barton Malow, Truland, Grunley Construction, Gilbane Building Company, Davis Construction, DPR Construction, and Highmark for their generous donations that helped fund the event. S:PACE looks forward to working with PACE supporters again next year to help continue the program’s annual AE of the Year Event.

S:PACE is very excited about the upcoming year and we look forward to being more active while introducing the construction industry to more students than ever before!

“We sincerely appreciate all the industry members that contributed to S:PACE this year. Anything from sponsoring an event to taking the time to answer questions about the industry; without your support, S:PACE would have no reason to exist. We are grateful for the strong relationship that exists between industry professionals and the students. On behalf of the AE program and our organization, I thank you for your continued help and participation.”

- Anthony Jurjevic, S:PACE President
2010-2011
BIM for Owners

In early 2011, the Charles Pankow Foundation awarded the CIC research program a grant to begin the development of an Owner’s Guide to Building Information Modeling. During the research and creation of the very successful BIM Project Execution Planning Guide, the group determined there was a need to develop a guide for facility owners and operators that includes a procedure to develop a strategy for integrating BIM throughout their organization. This guide, developed primarily for facility owners, will focus on the decisions required to define their organization’s standard BIM processes and practices; design information integration strategies; and identify appropriate BIM contracting strategies.

The guide is being developed based on sound metrics and data from expert interviews, focus group meetings, case studies and existing literature sources. The project is also co-funded by the US Department of Defense Military Health System, Kaiser Permanente, US Department of Veterans Affairs, the Pennsylvania State University Office of Physical Plant and The Partnership for Achieving Construction Excellence. This project includes the creation of the Owners’ Guide to BIM, Owner BIM Integration Planning Templates, and documented case studies with lessons learned. For project updates, announcements, events and resources, please visit the projects website (bim.psu.edu/owner).

President Obama Visits AE Labs

This year has gotten off to a flying start and we were all delighted to have President Barack Obama and Secretary of Energy Steven Chu pay a visit to the Department to launch the Greater Philadelphia Innovation Cluster (GPIC) for Energy Efficient Buildings, for which the Department is providing technical leadership. During the visit, the President and Secretary toured research laboratories in the Department and were shown around by Dr. James Freihaut, GPIC Technical Director and Associate Professor of Architectural Engineering. Paul Kremer and a number of students were also on hand to demonstrate various ongoing projects and tests. The Presidential Visit was great for the Department of Architectural Engineering and Penn State, as it recognizes the excellent work of so many of our faculty, students and staff. All alumni and friends of the Department should be proud!

Dr. Chimay Anumba
Professor and Department Head
Architectural Engineering

DBIA Design-Build Bootcamp: Register Today!

The Design-Build Institute of America (DBIA) will offer an intensive, one-week Designated Design-Build Professional™ Boot Camp August 15th-19th at the Atherton Hotel in State College, PA.

Courses include: Fundamentals of project delivery, The principles of Design-Build project delivery, and Design-Build contract & risk management. It concludes with an examination with an optional exam prep course. The boot camp will also include Penn State’s expertise in sustainability and “building green.”

Tuition: $2,750 (members and alum) and $3,750 (all others) | Registration: http://www.dbia.org/development/bootcamp/

Congratulations!
2011 PACE Hall of Fame Inductee - Class of 1981
Tim Carr
Heery International, Inc.

Congratulations!
PACE Construction Excellence Award
Chris Magent
Alexander Building Company
We would like to thank the following companies for their support of PACE

Thank you for your support of PACE’s 2010-2011 activities!

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**CONSTRUCTION FACULTY**

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**Newly Elected S:PACE Officers**
Matt Hoerner | President
Pat Laninger | Vice President
Elizabeth Kimble | Treasurer
Jenna Dumke | Secretary
Evan Landis | Placement Officer
Jeff Sopinski | Placement Officer
Ralph Kreider | Graduate Representative
Aubrey Fulton | 3rd Year Representative
Brian Bernens | 2nd Year Representative

**Upcoming PACE Events**
Advisory Board Meeting — June 2, 2011
Representatives from PACE Member companies meet to discuss key issues facing the building industry, and establish a research agenda for the next year.

PACE Roundtable — October 26-27, 2012
An open forum discussion in which key topics selected by the advisory board are discussed by students and industry practitioners. Specific and target research topics are defined to be pursued by research teams.