

Architectural Engineering Student Design Competition Awards Presented at Gala Dinner on April 4, 2013

The Architectural Engineering Institute (AEI) of the American Society of Civil Engineers (ASCE) held the finals for the fourth year of the ASCE Charles Pankow Foundation Architectural Engineering Student Competition in conjunction with the AEI National Conference hosted by The Pennsylvania State University Department of Architectural Engineering in State College, Pennsylvania on April 3 and 4, 2013.

The competition project challenged the student teams to provide a design development submittal for a new Elementary School building to be located in an urban setting in Reading, Pennsylvania with significant challenges including sustainability, budget, and security requirements. The student participants were encouraged to work together in multi-disciplinary teams and consider how the engineered systems work with or enhance the architecture of the building. Space programming for the building was shown on the schematic plans. Additionally, the design submittals were required to address the challenge to integrate and optimize on a life cycle basis all major high performance attributes, including energy conservation, environment, safety, building security, durability, accessibility, cost-benefit, productivity, sustainability, functionality and operational considerations.

The competition is open to both graduate and undergraduate students in accredited architectural engineering programs and programs actively seeking accreditation by EAC/ABET, supervised and advised by faculty. Submissions are to be entered in the building systems integration category and one or more of the following four categories: structural systems design; mechanical systems design; electrical systems design; and innovative construction management and construction methods.

The jury consisted of volunteer building industry practitioners and representatives of the Charles Pankow Foundation and AEI. The 2013 jury members were:

- Debora Roberson, RA, LEED AP - Roberson Butz Architects
- Charles DeLisio, AIA, PE, LEED AP - Parsons Brinckerhoff Federal Design Division
- Robert P. DeScenza, PE, LEED AP BD+C - Thornton Tomasetti
- Erik Sohn, PE - Wiss, Janney, Elstner Associates, Inc.
- David W. Bernhardt, PE - Providence Engineering Corporation
- Emily L. Trumbull, PE, LEED AP BD+C - Building Dynamics, LLC
- Katie McGimpsey, PE, LEED AP - Affiliated Engineers, Inc.
- Roger M. Thies, PE, LEED AP - Barton Associates Inc.
- James S. Bates, PE, LC, LEED AP BD+C - HDR Architecture, Inc.
- Christine Brazill, PE, LC, LEED AP - Aspire Engineering
- Robert D. Grottenthaler, PE, LEED AP, DBIA - Barton Malow Company
- Amanda Goolsby, DBIA, LEED AP - Balfour Beatty Construction

Nineteen teams participated in the competition from the architectural engineering programs at the University of Nebraska, Drexel University, Kansas State University, Oklahoma State University, University of Missouri of Science and Technology, Texas A&M University-Kingsville, Milwaukee School of Engineering, the University of Kansas, The Pennsylvania State University, California Polytechnic State University, and North Carolina A&T State University..

The teams chosen as finalists in the competition presented their projects to the jury on Wednesday, April 3 and were as follows:

Team #1 from Kansas State University advised by Russ Murdock presented in the electrical systems category. The team members were Javier Porras, Richard Kim, Bronson Blasi, Brian Schrottenboer, Joseph Yates, Ryan Wofford, Corey Midkiff, Brandon Schumacher, Sean Hood and Dustin Nyberg.

Team #2 from The Pennsylvania State University advised by Kevin Parfitt presented in the building systems integration and construction management categories. The team members were Alexander Byard, Patrick Allen, Rachel Barrow, Melanie Fonner, Bradley Frederick, Brian LaChance and Anthony Palmer.

Team #3 from The Pennsylvania State University advised by Kevin Parfitt presented in the structural systems and mechanical systems categories. The team members were Michael Brown, Brandon Rupert, Tyler Donnell, Chongsheng Feng, Angie Veintimilla and Maxwell Becker.

Team #4 from The Pennsylvania State University advised by Kevin Parfitt presented in the building systems integration, structural systems, mechanical systems and electrical systems categories. The team members were Jenna Dumke, Mike Hoffacker, Pat Zuza, Amanda Small, Emily Wychock, Kristiana McMunn, Jeff Sopinski, and Abigail Kun.

Team #5 from The Pennsylvania State University advised by Kevin Parfitt presented in the electrical systems and construction management categories. The team members were Daniel McGee, Brittany Notor, Devon Saunders, Eric Cook, Brian Blenner, Matthew Hoerner, Keith McMullen and Kyle Houser.

Team #9 from Drexel University advised by Robert Brehm presented in the mechanical systems category. The team members were Stephen Wayland, Anthony Bifano, Kayleigh Houde, Rohit Shah, Alyssa Stein, and Kanishk Yadav.

Team #10 from The Pennsylvania State University advised by Kevin Parfitt presented in the building systems integration, structural systems and construction management categories. The team members were Nicholas Ramondo, Frank Campisino, Matthew Fogarty, Stephen Hirlinger, Michael Rossmell, Michael Stremski, and Jacob Waler.

The competition winners and their categories are as follows:

For the Building Systems Integration category, Team #4 from The Pennsylvania State University,

For the Structural category, Team #10 from The Pennsylvania State University,

For the Mechanical category, Team #4 from The Pennsylvania State University,

For the Electrical category, Team #1 from Kansas State University,

And for the Construction Management category, Team #2 from The Pennsylvania State University.

Additionally, an individual award for Innovation was presented to Team #9 from Drexel University.

The competition was a tremendous success thanks to the hard work of the participating teams, the faculty advisors and the jurors. The competition was generously sponsored by the Charles Pankow Foundation, Johnson Controls, SOM, Wallace Engineering, WJE, Affiliated Engineers, Nabih Youssef Associates, Weidlinger, Langan, Bentley, Simpson Gumpertz & Heger, WSP – Flack + Kurtz, and Gregory P. Luth & Associates. Please look for information for the 2014 competition in August on the Architectural Engineering Institute website and the competition website at <http://content.asce.org/studentcompetition/index.html>. The finalist presentations for the 2014 competition will be held at the AEI Student Conference at Drexel University in Philadelphia, Pennsylvania on March 27-29, 2014.