Dear Alumni and Friends,

The Spring semester has been a busy one for the Department with several activities and developments, many of which are reported within this newsletter. I would like to highlight a few of these:

The Department’s Industrial and Professional Advisory Council (IPAC) met in March (see page 8) and provided very useful feedback on the Department’s Strategic Plan, which will run from 2013 to 2018;

In April, we hosted the 2013 Architectural Engineering Institute (AEI) conference in conjunction with the American Society of Civil Engineers (ASCE). The conference was attended by nearly 300 delegates from about 20 countries and included the annual Charles Pankow Foundation-sponsored Student Competition, at which Penn State AE students distinguished themselves. Details of the conference and student competition are on pages 6 and 7;

Ms. Roberta Levy Liss ’83 (page 5) was recognized in April as a 2013 Outstanding Engineering Alumna at a ceremony hosted by the College of Engineering in the Nittany Lion Inn. She gave a talk in the Department and offered important insights into what it takes to be successful. Several other alumni were also honored by a variety of organizations (pages 4 and 5);

Several AE faculty were recognized through external awards, appointments and podium opportunities. Of particular note is Dr. William Bahnfleth’s induction as President of ASHRAE (American Society for Heating, Refrigeration and Air-conditioning Engineers). Details of Dr. Bahnfleth’s activities as ASHRAE President will be publicized in future issues of this newsletter;

The Kudroff Memorial Lecture was given on April 25, 2013 by Professor Timothy Broyd from University College London (UCL), UK (page 10);

The Dean of the College of Engineering, Dr. David Wormley, announced his intention to retire during the summer or as soon as a new Dean has been appointed (page 10). The university is conducting a search for his successor;

At the end of April, the 2013 Senior Thesis Awards Banquet was held and, thanks to the generosity of our alumni and friends, the Department was able to give out over $140,000 in scholarships and awards to deserving AE students (pages 12 and 13);

A number of faculty and staff are moving on during the summer (see page 9). On behalf of the Department, I would like to thank them for their contributions to AE and wish them well in their future endeavors.

I would like to thank you for your continued support – this is invaluable to us as we strive to take the quality of the student experience to new heights. The AE Program continues to go from strength to strength, and our students continue to do us proud. Please feel free to stop by the Department if you plan to visit Penn State during the Fall semester and I will be glad to brief you on the latest developments.

Sincerely,

Chimay J. Anumba, Ph.D., D.Sc., P.E.
AE Department Head

On the cover: Springtime photo of PSU Old Main gate courtesy of AE staff member Deb Sam.
Wedding Bells

Joe Cardamone '04 and Ally Diaz '04 returned to Penn State to get married on Aug. 4, 2012. "In true Penn State fashion we did the ceremony in Pasquerilla Spiritual Center and the reception at Nittany Lion Inn! Our awesome photographer (Meadow Lane Photography) took this picture of all the AE alums."

Top L-R: Alvaro Zumaran '07; Summer Padgett Weber '04; Casey Schardt '04; Cherise Rollins '04; A.J. Kessinger '04; Christine Brazill '04; Dan Rusnack '04; Paula Martinez Nobles '04; Miory Kanashiro '04; Jason Eady '04; Joe Cardamone '04; Ally Diaz Cardamone '04 and Tim Lupcho '04.

Joe Cardamone '04 and Ally Diaz '04

Structural Solutions. I am the president and sole owner of the firm. So far, it has been a wild but fun ride and one that I hope to keep going for many more years."

Paul Stewart '94 senior project manager with Gilbane Building Company in Liburn, GA.

Jeff Albert '93 sales engineer with Dave Steel in Asheville, NC. Responsibilities include client relations, steel bid proposals, engineering review and business development.

Bonnie Lee '02 director of construction with Tough Mudder in Brooklyn, NY. Responsibilities include overseeing a team of construction managers and contractors responsible for the obstacle construction for 50+ events, across four countries. Tough Mudder is experiencing explosive growth and we are hiring!

Greg Blatt '04 Started a new position in Sep. as assistant project manager with Tishman Construction on the St. Elizabeth’s Adaptive Reuse project in Washington DC.

Alison Rampulla '04 project manager with Orndorf & Associates, Inc, in Ardmore, PA. "I got married on May 18, 2012...I am now Alison DeBourke!"

Zachariah Wasser '10 facilities project engineer with the U.S. Department of Veterans Affairs in Huntington, WV.

New Arrivals!

Alicia (Carbin) Udovich '05 and husband Erik welcomed a new daughter Anabella Claire Udovich, born on Jan. 15, 2013.

Bevan Mace '97, '01g and wife, Stephanie announce the arrival of their baby girl, Isabelle Solange Ruth Mace.

Isabelle made her grand entrance on May 21, 2013. She weighs 6 lbs. 14 oz. and is 19 inches long.

Alumni News

Continued on page 4
Alumni Honors

ENR Mid-Atlantic Top 20 Under 40
Two AE alumni have been named to Engineering News-Record’s Top 20 Under 40 list for 2013 in the Mid-Atlantic region.

Dr. Jonathan Dougherty ’99, ’06g is the Director of the Corporate Knowledge Center at James G. Davis Construction Corporation in Rockville, MD. Dougherty joined DAVIS in 2005 to help establish the company’s corporate knowledge center—its ”corporate university.” He became director in 2010 and now leads education and knowledge management initiatives for more than 300 employees. He created the center’s vision: maximizing the creation, discovery, and dissemination of information. The center manages more than 160 internal and external education programs annually. In addition to his role at DAVIS, he has also served as an adjunct professor in the building construction department at Virginia Polytechnic Institute and State University. He is also president of the Penn State Alumni Society of Architectural Engineering (ASAE).

Dr. Christopher Magent ’96, ’05g is the business development and strategic initiative director and general manager of Butz Enterprises, Inc. in State College, PA. Magent has made a big impression in a short time at the Butz family of companies. Shortly after joining the firm in 2005 as the director of business development in the State College office, he quadrupled sales for the office, which regularly tops $100 million in revenue. In 2008, he was named general manager for the State College office. In 2012, he was given a new position—business development and strategic initiatives director. In this additional role, he leads the integration of business development and marketing efforts of all three Butz family entities (AH Butz, Alexander and Shoemaker). Magent has also served as a practitioner instructor in the AE department.

Young Engineer of the Year

Alyssa Wingenfield, LEEP AP, ’09 was selected by the Central Pennsylvania Engineers Week Council to receive the 2013 Young Engineer of the Year Award. Alyssa is a member of the Central Pennsylvania Chapter of American Society of Heating, Refrigerating, and Air-Conditioning Engineers. She is an energy services specialist for McClure Company, located in Harrisburg, PA.

Consulting - Specifying Engineer’s 40 Under 40
Ken Lindsey ’99 a contract executive with Southland Industries in Garden Grove, CA has been selected by Consulting-Specifying Engineer magazine as one of the 2013 40 Under 40. As one of the owners of Southland Industries, Ken Lindsey oversees the pre-construction, design, and execution efforts of multiple projects. He has accumulated significant experience with lean integrated project delivery (IPD), and many of his colleagues consider him among the most experienced in the country on this score. Lindsey’s IPD experience includes Walt Disney’s Little Mermaid ride in Anaheim, CA, and Universal Health Services’ Temecula Valley Hospital. This lean construction experience has pushed Lindsey to broaden his focus toward the development and application of traditional manufacturing processes to construction project delivery efforts. Lindsey has recently assisted in the development and production of various multi-trade construction prototypes for use in highly collaborative project delivery environments.

BD+C’s 40 Under 40
Sara Schonour ’07 senior associate with Cannon Design in Boston has been selected by Building Design + Construction magazine as one of the 40 Under 40 class of 2013: Schonour started the companywide lighting design studio with help of a Cannon Design colleague. She supports Cannon teams in New York; St. Louis; Washington, D.C.; Chicago; Phoenix; San Francisco; Los Angeles; Vancouver; Victoria; and Mumbai; and directly manages lighting designers in Boston. Her projects have won six lighting industry awards, including the International Association of Lighting Designers Award of Excellence for the MD Anderson Banner Cancer Center, Phoenix. She is a contributing author/editor for the "ASHRAE GreenGuide." She is a board member for the Designers Lighting Forum of New England; a co-chair for events and programming for Boston Lights trade show and is active in the Illuminating Engineering Society, USGBC, National Council on Qualifications for the Lighting Professions, and PSU Architectural Engineering Alumni Association.

Alumni News .....continued from page 3

Carey Steckler ’05 "I packed up my life in DC in fall 2011, stashed some stuff in my parents’ attic, and moved to Uganda in Jan. 2012. I’ll be here through 2013. It’s fantastic work and I’m pretty much a one-woman ”preconstruction department” in our office here. We help charity organizations like clinics, orphanages and schools estimate building costs and figure out contractor selection, contracts, etc. I had the opportunity to do cost estimating for about 20 different ministry organizations in Uganda, Rwanda, Kenya, DR Congo and South Sudan, helping them to set appropriate fundraising goals or purchase the right amount of building materials for their projects. Currently, I am working on a boarding-school dormitory that will house 90 girls who would be unable to attend school without it.”

Jason McFadden ’06 is working with Barton Malow Company in Orlando, FL.

Greg Blatt ’04 started a new position in Sept. as assistant project manager with Tishman Construction on the St. Elizabeth’s Adaptive Reuse project in Washington, DC.

Christopher Raebel ’00g is associate professor and AE program director at Milwaukee School of Engineering in Milwaukee, WI.
2013 Outstanding Engineering Alumnae

Ms. Roberta Levy Liss ’83 has been named a 2013 Outstanding Engineering Alumnae of the College of Engineering. She is currently the executive vice president, leasing and marketing for BECO Management.

She is a 29-year veteran of the Washington, D.C., metropolitan area’s real estate market. Her focus has been on Landlord and Tenant Representation, and strategic planning. She is responsible for the 5.5 million RSF portfolio, as well as corporate marketing. Prior to that, she was executive vice president at CB Richard Ellis, joining in 2007 after it acquired Trammell Crow Company. Immediately prior to the CBRE Trammell Crow merger, Roberta was principal and director of brokerage for Washington D.C. and suburban Maryland for Trammell Crow. She provided oversight for an Agency Leasing portfolio of 14 million RSF, tenant representation, retail leasing, and tax appeal. Prior to joining Trammell Crow Company, Roberta held positions at Charles E. Smith, Barnes Morris Pardoe and Foster, BF Saul and John J. Kirlin Project Management.

Ms. Liss’ career path has taken her into the real estate development and management field and she has been proven herself to be extremely capable, successful and dynamic in this field. She has been an active proponent of the AE Student Mentoring Program and she is an excellent role model and mentor for the all Architectural Engineering students, particularly our female students.

Outside of her highly successful business activities, Liss has maintained an active leadership role in a variety of professional organizations and affiliations. In addition, she has a long-standing friendship with Penn State and the AE department. In particular she has been an active member of the AE Industrial and Professional Advisory Council (IPAC) team and served a term as chair of IPAC. In addition to her role in the department, Ms. Liss is a member of the College of Engineering’s Advancement Committee.

Luke Leung ‘87 the director of the Sustainable Engineering Studio for Skidmore, Owings and Merrill LLP, received awards at the Illinois chapter of ASHRAE meeting for his work on the Pearl River Tower and Zhengzhou Greenland Tower in China. The winning chapter entries will be entered in the ASHRAE society-wide competition. Leung is pictured below with Professor William Bahnfleth who was the keynote speaker at the event.

Southland Industries was interviewed for a feature article in ENR magazine to discuss their future endeavors.

Dr. Theodore (Ted) Lynch, ’92; ’96g and CEO of Southland, was featured on the cover of the May 2013 issue of the magazine.

Dr. Jonathan Dougherty, ’99, ’06g was the 2013 spring commencement speaker for Penn States Wilkes-Barre. His address on an "OMG life" can be found at http://youtu.be/WrswtPwtBkA

Dr. Dougherty was also the recipient of the Distinguished Service Award awarded by the Penn State Engineering Alumni Society (PSEAS) at a ceremony held on campus on Apr. 3, 2013.

He is the founding president of the Penn State Alumni Society of Architectural Engineering (ASAE); and a regular participant in the Student Society of Architectural Engineers (SSAE) student mentor program, the AE Option Social, the AE Career Fair, the AE Scholarship and Awards program, and Senior Thesis Jury. In addition, he serves as a member the AE Industrial and Professional Advisory Council (IPAC).

AE Department Head Chimay Anumba stated, “It is hard for me to imagine another person who is more “Penn State Proud” or who has given more freely and enthusiastically of his time and talents to enhance the Architectural Engineering program. He is committed to interacting in very meaningful ways with our students.”
The Department of Architectural Engineering was very pleased to host the 2013 Architectural Engineering Institute (AEI) Conference at the Nittany Lion Inn on Apr. 3 – 5, 2013.

Nearly 300 people representing 16 countries attended the conference which included a workshop, technical papers presentations, invited technical sessions, and campus tours. The conference was geared toward a balance of academics and practitioners.

Keynote speakers included Glenn Bell, senior principal and CEO of Simpson Gumpertz & Heger in Waltham, MA, who spoke on "Integrated Design for High Performance Buildings: Implications for Developing Successful Architectural Engineers"; and William Moyer, executive vice president of James G. Davis Construction in Rockville, MD who presented on "Leveraging Operational Excellence: Interdisciplinary Collaboration."

We would like to extend special thanks to all of the 2013 AEI Conference sponsors: who helped make this event an outstanding success!

Gold Sponsor James G. Davis Construction generously hosted a student reception and covered the expenses for the gala banquet for more than 100 student attendees!

Silver Sponsors Cannon Design, Grand Island, NY; Gilbane Building Company, Philadelphia, PA; SmithGroupJJR, Detroit, MI

Best Paper Award sponsored by Emerald Publishing, Ltd., UK.

Conference Exhibitors Cradle North America, Inc. and Taylor & Francis Group.

In addition, ASHRAE held two continuing education courses in conjunction with the Conference.

Students attending the conference had opportunities to interact with leaders of the architectural engineering profession; and participate in the finals of the 2012-2013 ASCE Charles Pankow Annual Architectural Engineering Student Competition that was held in conjunction with the conference. (below)

We Are ....

AEI/ASCE National Student Competition Winners!

Student teams from the AE Department at Penn State took top honors in four of the five submission categories. AE students won first place awards in the categories of Building Systems Integration, Construction Management, Mechanical, and Structural. In their first year entering the competition, all five Penn State AE teams qualified for the nationals capturing a record 13 of the available 15 competition presentation slots, leading to four first-place finishes and nine runner-up awards.

Professor M. Kevin Parfitt, one of the lead advisors for the Penn State team said, “Bob Holland and I went in the first day of class and told the students that if we enter the national competition, we were doing it with the intent to win and the workload would reflect that fact.” The students never even blinked and told their advisors that they welcomed the opportunity to prove they were the top AE program in the country. AE students in our challenging five-year program are no strangers to hard work and long hours but their dedication and efforts were unsurpassed. No school in the history of the completion has ever qualified five teams and captured so many honors in one year.

Overall coordination and management for all five teams was provided by lead faculty advisors, M. Kevin Parfitt and Robert J. Holland, who also served as technical advisors in the Integration category. Additional AE faculty serving as technical advisors to the AE students included: Andres Lepage (Structural), Craig Dubler (Construction), Richard Mistrick (Lighting/Electrical), and Jelena Srebric (Mechanical).

This year’s student competition project challenged the teams to provide a design development for a new elementary school building to be located in an urban setting in Reading, PA. (bottom, facing page) Some of the significant challenges with this project included 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. Submissions were 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.

Nineteen teams participated in the first round of competition and represented 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, Penn State, California Polytechnic State University, and North Carolina A&T State University.

Penn State AE teams rose to the top of the finals competition by representing five of the seven teams chosen as finalists in the competition. The following Penn State AE teams presented their projects to the jury on Wednesday, April 3:

**Team Nexus**: 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. Winner in construction management category.

**Team Studio VI**: structural systems and mechanical systems categories. The team members were Michael Brown, Brandon Rupert, Tyler Donnell, Chongsheng Feng, Angie Veintimilla and Maxwell Becker.

**Team Creation**: 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. Winner in building systems integration category and mechanical category.

**Team Unitus**: 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 Organic**: 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 Walker. Winner in structural category.

The remaining two teams were from Kansas State University (presented and won in the electrical category) and Drexel University (presented in the mechanical systems category). Additionally, an individual award for innovation was presented to the team from Drexel University.

Dan McGee, a member of Team Unitus, commented, “I was really impressed by Penn State’s overall performance in the AEI student competition. All teams performed exceptionally. It is a great example of why I am so proud to be graduating from the Penn State AE program.”


The student event was a tremendous success thanks to the hard work of the participating teams, the faculty advisors and the jurors. Special thanks goes to Keena Chapin of Wallace Engineering, chair of the AEI National Student Competition Committee, for all of her work in organizing the competition and running the judging process for 2013.

Looking ahead, the finalist presentations for the 2014 competition will be held at the AEI Student Conference at Drexel University in Philadelphia, PA, on March 27-29, 2014.

Professor Holland summed up this year’s event with the following, “Our AE teams dominated the national competition by qualifying in thirteen of the fifteen final presentations slots (determined by blind submissions) and winning four of the five first place awards in the presentations at the AEI Conference. Our students definitely made us Penn State Proud!”
Department News

2013 Take Our Daughters and Sons to Work Day
For several years, Immersive Construction (ICon) Lab researchers in Penn State’s Department of Architectural Engineering have hosted a Take Our Daughters and Sons to Work Day event to teach students about new technologies for designing greener and more energy efficient buildings. This year, visitors were introduced to the breadth of architectural engineering work and career options through the ICon Lab’s 3D immersive virtual display environment and the tools engineers use in digital design and construction. (see photo at right) Research assistants Fadi Castronovo and Dragana Nikolic showed 40 participants how the lab is used for design collaboration and visualization of building information. Using 3D glasses and tracked navigation, students got hands-on experience with construction case study projects to visualize and interact with architectural, structural and mechanical system models.

IPAC
The AE Industrial and Professional Advisory Council (IPAC) meetings were held in the College of Engineering on March 20-22. Discussions included sessions on strategic planning, industrial trends, an update on ASAE, meetings with the AEI competition teams, as well as breakout sessions focusing on curriculum and development in the AE department.

AE Short Course Offerings
The department is offering multiple continuing education programs. Dr. Thomas Boothby will be offering an online short course on Graphic Statics in July and August and Dr. Chimay Anumba is offering a course on knowledge management in architecture, engineering, and construction organizations in Philadelphia in July. The department has a wide-range of available courses. Please contact Richelle Weiger (rweiger@engr.psu.edu) for more information.

AE 597B Historic Structures Tour
AE 597B deals with the design procedures used for structures in the late nineteenth century, and each year, we take the opportunity to visit a few of these structures. This year, we toured bridges and industrial sites in Ohio, Indiana, and Illinois. The highlight of the trip (if it wasn’t the pizza!) was a tailored tour of the historic Pullman Palace Car works, now in South Chicago. We were also treated to a tour of the Auditorium building, the former German American Club building, the former Whiting Foundry Equipment Company, and visited a number of bridge sites. The photo below shows the group on a chilly April morning at the Cherry Street Bridge, a 1900 bobtail swing bridge that originally provided a rail connection between the mainland and Goose Island, in the North Branch of the Chicago River.

AE Newsletter Spring 2013
Sharron Williams Memorial Award

It is hard to believe, but it has been almost six years since the AE Department’s long-time staff assistant, Sharron Williams, lost her battle with cancer and passed away. For many AE alums, Sharron was a go-to resource; she may be most well known for her ever-present candy jar, warm smile, and wealth of advice on all things related to course scheduling and degree audits.

In 2004, the AE Class of 1999 began awarding a scholarship in honor of Sharron. With her passing in 2007, the scholarship has been awarded as the Sharron E. Williams Memorial Scholarship in AE. The current fund is not endowed with Penn State and thus funds are eroding from this account with each annual scholarship given.

With your generosity, we are launching a campaign to finally endow the award in Sharron’s memory. We have a good start, but need your support and dollars to adequately remember our beloved friend and colleague. We must reach our $20,000 goal by December 2013 in order to continue the award at the AE Senior Thesis & Awards Banquet next spring.

To donate via check, please make checks payable to Penn State. In the check memo, please indicate “Sharron Williams Award”. Checks can be sent to: Geoff Halberstadt, College of Engineering, 101 Hammond Building, University Park, PA 16802.

To donate online, please visit www.giveto.psu.edu and follow the online giving instructions. Please select “other” and write in the Sharron Williams Award in AE.

Thank you so much for your generosity and for remembering Sharron.

Faculty/Staff Awards and Honors

Dr. William Bahnfleth was inducted as president of ASHRAE at a president’s luncheon held in Denver, CO, on June 24. There is also a Facebook page “ASHRAE President.”

Dr. Michelle Vigeant was recently quoted in a SWE magazine article entitled “Bringing a Building to Life.” Dr. Vigeant spoke on the importance of acoustics and sound control in all buildings, not just concert halls and theaters.

Dr. Jelena Srebric has been elected as a foreign member of the Serbian National Academy of Engineering. The induction ceremony took place on Mar. 14, 2013 at the University of Belgrade, Serbia.

On Apr. 3, the College held the annual Penn State Engineering Alumni Society (PSEAS) Awards Ceremony at Kunkle Activities Center on campus. AE Associate Professor, Moses Ling ’75 was a recipient of the Outstanding Advising Award.

AE Department Head, Dr. Chimay Anumba, was a role model in the Royal Academy of Engineering’s ‘Designed to Inspire’ program which was geared towards encouraging more women and underrepresented minority students to consider an engineering career. The series of events in London were attended by British government ministers and hundreds of students.

In June, Dr. Chimay Anumba was the Keynote Speaker at the ASCE’s International Workshop on Computing in Civil Engineering held at the University of Southern California. His talk was entitled ‘Intelligent Context-Aware Systems for Design, Construction and Facility Management.’

New Staff

Richelle Weiger has joined the AE department as the continuing and distance education coordinator. She will assist with the development and implementation of continuing and distance education activities.

Departures

The AE department is sad to see Professor Bob Holland, Dr. Jelena Srebric, Dr. Andres Lepage, and staff members Michelle Doreller and Ashley Wolfe depart for other endeavors. They were honored with a special faculty/staff luncheon that included cake, presents, and tales of days gone by. They will be greatly missed and we wish them the best of luck for the future!

Robert B. Sprankle, 77, of Boalsburg, passed away on Jan. 22, 2013, at his residence. Born on Nov. 2, 1935, in Bellefonte, he is a son of the late Homer and Beulah (Shawley) Sprankle. He is survived by his wife of 51 years, Marcelline (Sheckler) Sprankle; three daughters, Georgia Freeman (Harold), of Centre Hall, Heidi Peltzer (Eric), of Lancaster; eleven grandchildren; two step brothers, Marlin and Sam Dunlap; and two step sisters, Marjie Lyons and Barbara Webster.

Bob was a 1953 graduate of the Bellefonte Area High School. Upon his high school graduation, Bob joined the United States Air Force. While stationed in Germany, he worked in the Security Service. In 1958, he was discharged as an airman 1st class.

In 1960, he earned a bachelor of arts degree from University of Southern Mississippi. He then took a position as a writer at Gannett-Fleming-Cordory-Carpenter in Harrisburg. In 1962, he and his wife moved to Centre County, where he accepted a position at Penn State in the Department of Architectural Engineering as an editorial and liaison specialist. In addition, he coordinated continuing education initiatives in the Department. He left the AE Department in Spring 1989, for a position in the College of Engineering, where he served and later retired as a coordinator of continuing education.
COE Dean Wormley to Retire

Following a distinguished career as a researcher, professor and the Harold and Inge Marcus Dean of Penn State’s College of Engineering, David N. Wormley has announced his retirement effective this summer.

Wormley was appointed dean of the College of Engineering on July 1, 1992. Prior to coming to Penn State, he served as a faculty member, department head for mechanical engineering and associate dean of engineering at the Massachusetts Institute of Technology. He earned his bachelor’s, master’s and doctoral degrees from M.I.T.

The University is conducting a national search for Wormley’s successor.

Engineers can build too!

Heather Sustersic, AE research associate and instructor for AE 432, Masonry Design, held an event on Apr. 19 at the AE Structures Lab entitled “Engineers Can Build Too!” Twenty-two students participated as part of the course requirements for AE 432, under the instruction of Chris Shirley, CPI (Central PA Institute of Science and Technology). While students were only required to work for one hour, most of them stayed longer. Some even worked for 2.5 hours! One student said, “this is definitely an exercise in building respect!” Hopefully this understanding and respect will help them in their careers.

The event was supported by the Pennsylvania Concrete Masonry Association with material donations by Beavertown Block.

Residential Building Design and Construction Conference

The Pennsylvania Housing Research Center (PHRC) has started to organize an annual Residential Building Design and Construction Conference, which will be held in conjunction with the annual Pennsylvania Housing & Land Development Conference. As a new PHRC program, the Residential Building Design and Construction Conference is intended to provide a unique forum for researchers, design professionals, manufacturers, builders, and code officials to keep up-to-date on the latest advancements and discuss their own findings, innovations, and projects related to residential buildings. The two annual conferences are held simultaneously at the same location and provide an opportunity for participants to attend sessions at either event. The Residential Building Design and Construction Conference has parallel tracks consisting of several technical paper sessions with presentations on recent research and innovations related to residential buildings. The Residential Building Design and Construction Conference is focused on various types of residential buildings including single- and multi-family dwellings, mid-rise and high-rise structures, factory-built housing, dormitories, and hotels/motels. Full papers will appear in the conference proceedings.

The Residential Building Design and Construction Conference was held on Feb. 20 and 21, 2013 in Bethlehem, PA. Two keynote speakers were invited for this conference, Sam Rashkin, Chief Architect, Building Technology Program, DOE, and Richard Seifert, Professor Emeritus, University of Alaska, Fairbanks. The conference scheduled 36 presentations in 13 sessions over two days. The final conference program and the proceedings of the 1st Residential Building Design and Construction Conference, edited by Dr. Ali Memari, chair of the conference, can be found at the phrc website.

Kudroff Memorial Lecture

Prof. Tim Broyd FREng FICE, chair in built environment foresight at University College London (UCL), presented the Marvin J. Kudroff Memorial Lecture at the Nittany Lion Inn on Apr. 25, 2013. Broyd discussed “The Landscape of United Kingdom Construction and Infrastructure.” Throughout his career Professor Broyd has worked at the interface between industry practice and academic thinking in the construction and infrastructure sectors, including in roles with a formal responsibility for influencing business and government leaders to embrace and drive innovation through their organizations. His experience includes five years as chief executive of industry research body CIRIA, as well as a number of years as the corporate research and innovation director of Atkins.

He founded a national centre for construction innovation and excellence in Scotland, is the founding chair of the ICE’s Policy Panel, and is actively involved in national innovation forums related to both construction and infrastructure.

He is a Fellow of both the Royal Academy of Engineering and the Institution of Civil Engineers, a visiting professor at both the University of Reading and the University of Dundee and External Examiner of MSc courses at UCL and Cambridge. He has maintained an active engagement in the development and deployment of BIM techniques for over a decade, and is vice chairman of BuildingSmart (UK) Ltd. He is also a director of CEEQUAL Limited, and became vice president of the Institution of Civil Engineers in Nov. 2011.

Professor Broyd graduated from the University of Birmingham with a first class honours degree in civil engineering, and remained there to study for a Ph.D. in the mixing of salt and fresh waters in natural British estuaries.
2013 AE Career Fair – 20th Annual Event

This year’s AE Career Fair, **September 23-24, 2013**, marks our 20th annual event which was first held way back in Fall 1994. And, my oh my, how things have changed!

Those of you who attended that first event will likely recall that the core group of company recruiters was almost outnumbered by the “resume only” collection boxes spread around on the various tables in the HUB Fishbowl. The Fishbowl is now long gone due to multiple renovations of the HUB. Also gone, but still remembered are the hundreds, if not thousands of AE students, and other Penn State and outside university students, who have attended all of the events over the past 20 years and were successfully connected with their first job opportunity after graduation.

After various configurations in the HUB, the quickly expanding event was pushed out due to a lack of space and relocated to Rec Hall. Rec Hall brought miles of cables and extension cords laid out on the floor in addition to a billowing floor cover in the stage area that pushed up each time the ventilation system kicked on. To this day, Professor **Kevin Parfitt** still speaks fondly of many late nights and even a few overnights that were necessary to get Rec Hall ready, including working around gym classes, volleyball practices and the lights automatically shutting off at midnight before setup was complete.

Today, we have the luxury of using the Bryce Jordan Center which showcases a professional and quite impressive event. The 2012 AE Career Fair was attended by 126 companies and more than 430 students ranging from freshmen to graduate students. We always receive high accolades from the companies attending for coordinating and presenting a mutually successful event.

If you are interested in being on our mailing list to receive information about the 2013 AE Career Fair, please send your company contact information to Deb Sam at dsam@ engr.psu.edu. Event details and registration information are now available.

**Student Marshal**

**Daniel McGee** was named the class student marshal to represent AE in the spring commencement ceremony. He graduated with an integrated B.A.E/M.A.E. degree from architectural engineering and a minor in architecture through the Sede di Roma Program in Rome, Italy. He also participated in a summer study program at Sorbonne University in Paris, France taking courses in French and international business.

He is a past recipient of the 2012 Cannon Design Outstanding Performance in the Mechanical option, the EwingCole Highest GPA in the 4th year class and the SmithGroup JJR scholarship in 2011. He was named to the Dean's List every semester since entering the AE program.

He was a member and student mentor of the Student Society of Architectural Engineers, an active member of the student chapter of ASHRAE, and served as Webmaster for the U.S. Green Building Council. He was an active athlete, involved in intramural tennis, soccer and volleyball as well as running in the 2012 Pittsburgh Marathon; 2012 Nittany Valley Half-Marathon, and THON 5K in 2009 and 2012.

Following graduation, he began work for SmithGroupJJR as a mechanical engineer. In addition to being named student marshal, he was awarded a life membership in the Penn State Alumni Association. Daniel selected Moses Ling to serve as faculty marshal for the spring 2013 commencement ceremony held on May 3, 2013.

Daniel accepted his AE student marshal position in memory of his “great friend and fellow classmate” Patrick Zuza who passed away on Mar. 9, 2013.
Senior Thesis

The 2013 Senior Awards and Recognition Banquet (above) was held on Apr. 29 at the Nittany Lion Inn. The Department of Architectural Engineering was very pleased to present nearly $143,000 in scholarships and awards to deserving AE undergraduate students. We are extremely grateful for the phenomenal generosity of our alumni and friends who support the AE Scholarship and Awards Program each year.

2013/2014 AE Scholarships/Sponsors
Gladys M. Baird Memorial Scholarship
Barton Malow Fellowships
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Cagley & Associates Scholarships
Clark Construction Group Scholarship
AE Class of 1975 Scholarship
EwingCole Award
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Charles A. Merica Memorial Scholarship sponsored by Clark Construction Group
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Peerless Lighting Scholarship
Melvin H. Peters Endowed Scholarship
Pittsburgh Builders Exchange Scholarships
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John R. Potter Memorial Scholarship
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Ryan Biggs Assoc. Scholarship
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H.O. Smith Memorial Trustee Scholarship
Professor C. Herbert Wheeler Scholarship sponsored by Joseph & Marlene Borda
Sharron E. Williams Memorial Scholarship
Michael J. and Virginia A. Youchak Scholarship

2013 Award Winners
John J. Brinjac Memorial Award - Outstanding 5 Year Performance and Record of Study in AE (sponsored by Brinjac Engineering Inc.) – Daniel McGee
Cannon Design Outstanding Record of Study in HVAC - 5th year (sponsored by Cannon Design) – Daniel McGee
Cannon Design Outstanding Performance in Mechanical in the 4th Year AE Class – Erin Miller
Lite Control Outstanding Performance in Lighting/Electrical in the 4th Year AE Class – Reinhardt Swart
James G. Davis Construction - Outstanding Capstone Project Electronic Portfolio (CPEP) – Victoria Interval and AEI Team Unitus: Eric Cook, Devon Saunders, Daniel McGee, Brittany Notor, Kyle Houser, Keith McMullen, Brian Blenner and Matthew Hoerner
Forrester Construction Ethics Award – Jeff Sopinski
Hettema Leadership Awards (sponsored by Turner Construction) - Kevin Kroener, Drew Canfield, Bhaith Yacoub and Andrey Penev
Holbert Apple Associates - Outstanding Performance in Structures in the 4th Year AE Class - Alyssa Stangl
Howard and Callie Kingsbury Award for Excellence in Architectural Acoustics – Matthew Neal
Gershon Meckler Memorial Award - Innovative Building Mechanical System Design (sponsored by Dr. and Mrs. Barry Weinstein) – Michael Hoffacker and Kristiana McMunn
Charles A. Merica Award - Clark Construction Group – Jenna Dumke
PACE Group - Outstanding Performance in CM - 4th year AE Class – Jeremy Feath
PACE Group - Outstanding Record of Study in CM - 5th year Class – Stephen Blanchard
Peerless Lighting Award - Outstanding Record of Study in Illumination - 5th year Class – Chang Liu
Ralph Petrino/Gilbane Building Company Award in AE – Nicholas Zitterbart
PSPE/PEPP - Professional Practice Award – Brandon Rupert
Thornton Tomasetti - Outstanding Record of Study in Structures - 5th year Class – Michael Stremski
AE Seniors Garner Top Honors

A panel of 29 industry professionals met to judge the top eight fifth-year thesis presentations. In addition, they watched a presentation of the first place winning Team “Creation” for the ASCE Charles Pankow National Architectural Engineering Student Competition reported on pages 6-7. The following students presented their projects for the jury. The senior thesis award winners are listed below:

PSPE/PEPP - Best Overall AE Senior Thesis – Andrew Voorhees
Acuity Brands/Lithonia Lighting - 1st Place Lighting/Electrical Thesis in Memory of Mickey Woods – Chang Liu
Barton Malow Co. - 1st Place CM Senior Thesis – Andrey Penev
Cagley & Assoc. - 1st Place Structural Thesis – Andrew Vorhees
1st Place Mechanical Thesis - sponsored by William Glassmyer – Nathaniel Mooney
Balfour Beatty - 2nd Place CM Senior Thesis – Vincent Rossi
Barton Assoc. - 2nd Place Mechanical Thesis – Cheuck Tsang
Barton Assoc. - 2nd Place Lighting/Electrical Thesis – Jonathan Cook
Hope Furrer and Assoc. - 2nd Place Structural Thesis – Victoria Interval
Simpson Gumpertz & Heger - Outstanding Senior Thesis in the Area of Sustainable Design – Daniel McGee and Brittany Notor
Southland Industries - Outstanding Senior Thesis in the Area of Specialty Construction – Stephen Blanchard

The top eight thesis projects included:

**Andy Penev** focused his senior thesis project on Parcel 1 of the City Center DC development in Washington, D.C. His analyses revolved around new sequencing and phasing plans, an electrical redesign and its construction impacts, and an alternative footbridge installation method. Upon graduation, Andy will be working for Fisk Electric in Houston, Texas.

**Vincent Rossi**’s senior thesis project focused on the Metro Museum of American Art (MMAA), a $266 million project that has a construction schedule of approximately 37 months. The building is 222,952 GSF large which gives a cost per square foot of approximately $1,200. The goals of his analyses were to expedite the interior fit out schedule so that the risk associated with this phase can be mitigated.

**Chang Liu** completed her thesis project on the Houston Museum of American Art, located in New York, NY. Her thesis work comprises of lighting and electrical depth topics, as well as four breadth topics focused on other aspects of architectural engineering. Her future plans include working with Office for Visual Interaction in New York, NY.

**Johnathan W. Cook** conducted his senior thesis project on The URBN Center and URBN Center Annex, home of the Antoinette Westphal College of Media Arts & Design of Drexel University. This 130,000 square foot renovation project is located in Philadelphia, PA. He has redesigned the lighting and branch circuiting for four spaces including: Main Lobby (transition space); Fashion Design Studio (large work space); Pearlstein Art Gallery (special purpose space); Annex Façade and Patio (exterior space). An architectural and mechanical breadth that was focused on the Annex was also produced for his final report. Johnathan looks to join a lighting design firm in the near future where he can contribute his creative and technical skills.

**Cheuck Tsang**’s senior thesis project focused on the American Art Museum (AAM), a 9 story building to be built in New York City. AAM will be built with advance lighting and HVAC control systems to maintain the thermal environment needed for art storage. The design specifies the required efficiency of HVAC equipment in order to shorten the payback period. Her thesis explored designing a cost effective mechanical system and room layout.

**Nathaniel J. K. Mooney**’s senior thesis project was focused on the 250,000 SF, 15-story, Broad Institute Expansion at 75 Ames Street in Cambridge Massachusetts. His study primarily looked into the energy savings potentials from adding chilled beams to various labs and offices, and adding an Aircuity demand controlled ventilation system into the laboratory spaces. Following graduation Nathaniel will be moving to New York City to work with Jaros, Baum & Bolles.

**Victoria Interval** completed her thesis on a multi-tenant office building in Pennsylvania. Her thesis redesign focused around creating a more contemporary space, with an open feel and modern materials. Structurally, this meant cellular beams in an exposed ceiling with concentrically braced frames. Mechanically, this meant sizing and laying out the ductwork through the cells of the structural system. Architecturally, this meant a façade redesign, including both aesthetic and thermal properties. Following graduation, Victoria will be working with Dow Building Solutions, a business within Dow Chemical in Midland, MI.

**Andrew Voorhees** focused his senior thesis project on the Roberts Pavilion; a ten-story hospital, within the Cooper University Hospital complex located in Camden, NJ. His project consisted of redesigning the existing steel structure out of reinforced concrete with particular attention given to the lateral system. He also studied some advantages and disadvantages of a concrete structure including: architectural impact, cost, schedule length, and acoustic performance. Following graduation, Andrew has accepted a position with Mulhern & Kulp in Ambler, PA.
THON
AE Student Brian Sanvido was featured in on-line article about THON. After attending THON his freshman year unaffiliated with an organization, Brian and his friends decided they wanted to create their own organization. Today, Boulevard (nicknamed BLVD) has 89 members and 14 executives. Brian created cut out letters BLVD for his group with an LED lighting system winning the unofficial best cutout letters at THON 2013 contest! He proudly represented his organization by dancing in THON 2013. Brian says his go-to dance move is the "big fish, little fish, cardboard box" move. View their THON adventure online at: www.youtube.com/watch?v=KOvCZPcr5qg

2013 Study Abroad in Rome, Italy
Thirty-two AE students are participating in this year's summer Rome program. In spite of occasionally rainy weather, the program has been going very well. The students are enjoying life in Rome, and now know how to order caffe’ and how to eat bresaola (a spiced dried meat eaten with ru cola and oil). The students have been walking all over Rome reviewing historic architecture and structures. They have had trips out of Rome to see the Hadrian’s Villa and Ostia Antica, are currently touring archaeological sites in Pompeii and Paestum, and monuments in Northern Italy. The photo below is a group picture of all of the students in the program, taken during the field trip to Pompeii and Paestum.

Two students from the University of Kentucky, Maggie Bellhorn and Sarah Kimble, are participating in the Rome Summer program, along with the 32 AE students. Although they were slightly surprised to discover that the program that they had selected was populated by so many Penn State students, they have been enjoying themselves and have gotten along very well with the Penn State students. In the photo, both Maggie and Sarah are both wearing blue and white, so maybe they are becoming a little Penn State!

Front row: Iman Al-Jashmi, Caroline Klatman, Alyssa Saldivar, Maggie Golden, Sarah Kimble, Dana Burzo, Ashley Bistline, Courtney Millett, Yuka Narisako Second Row: Alana Mackey, Dan Goff, Patrice Mulhern, Maggie Bellhorn, Amal Al-Jashmi, Jackie Eury, Marissa Caldwell, Julia Haverty Back Row: Mazin Al Rashdi, Mike Hardesty, Nolan Foster, Chris Bright, Jimmy Weaver, Kevin Barth, Alex Fons, Alex Zartman, Mike De Podwin, Mohammed A1qanoor, John Conley, Michael Giuliani, Derek Galyon (missing from photo: C.J. Brandmeier, Max Wnorowski, Colby Mathews, Sean Fyalkowski)

In Memoriam
We are saddened to report that AE 5th year, Patrick Zuza passed away unexpectedly on March 9, 2013. He was the son of Jack and Cathy Zuza of Sharpsburg, PA; brother of Megan McHale of Silver Spring, MD, Bethany Garstad of Oslo, Norway, and Sean Zuza of Sharpsburg; grandson of Mary and the late John Zuza and Russ and Arlene Cullins. He was uncle to, Colin McHale and Noah Garstad, and had numerous aunts, uncles, cousins and friends.

Patrick was a 2008 graduate of Central Catholic High School in Pittsburgh and a Penn State Architectural Engineering student since Fall 2008. Patrick was a member of the first place winning Team “Creation” for the ASCE Charles Pankow National Architectural Engineering Student Competition. He was also a leader in the SSAE student/alumni mentoring program and a strong proponent of fostering meaningful mentor/mentee relationships. He organized social events, and spearheaded project initiatives for the group.

During the summer of 2011, Patrick joined the 2011 NC2SD Bike and Build team with 32 other individuals and bicycled over 3,600 miles from Nags Head, NC to San Diego, CA. The goal of the trip was to raise money for Habitat for Humanity as well as raising awareness of the national housing crisis. Through this trip, Patrick said that “he learned that there is a whole lot more good in our country than there is bad.” In his spare time Patrick enjoyed bicycling, running, tai-chi, yoga, cooking, reading, and playing guitar.

Having fulfilled all of the requirements of his B.A.E. degree, as well as a minor in architecture through his study abroad program in Rome Italy, Penn State conferred Patrick’s degree posthumously at the Spring 2013 Commencement.

His fellow classmates spearheaded an effort to purchase an engraved 8” x 8” memorial bluestone which will be installed in the Courtyard of the Hintz Alumni Center in August 2013. It will read: “In Loving Memory, Patrick Zuza, 1989-2013”

We have lost a bright student, a fellow classmate and friend, and a promising young engineer. Our heartfelt prayers go out to Patrick Zuza’s family.
Your support is making a difference!

We are extremely grateful for the outstanding support that we regularly receive from our alumni and friends. Your support is even more critical in these difficult times. We acknowledge the below gifts made between January and December 2012. If your name has been inadvertently left out, please notify us and we will rectify it.

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AE Newsletter  Spring 2013  Page 15
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