In a Historic Visit, President Barack Obama and Secretary of Energy Dr. Steven Chu Visit Penn State and Tour the Architectural Engineering Research Laboratories
A Message from

The Architectural Engineering Department Head—Dr. Chimay Anumba

Dear Alumni and Friends,

This year has got 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) on 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. Research Associate Paul Kremer and a number of students were also on hand to demonstrate various ongoing projects and tests – see page 3 for details. 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!

The AE Program continues to go from strength to strength, as we make the necessary changes to both the undergraduate and graduate programs to ensure that our students are well equipped to face the dynamic work environment. We continue to streamline the undergraduate program and our integration of Building Information Modeling (BIM) and Integrated Project Delivery (IPD) concepts into the curriculum continues to win awards (see page 8). We are also in the process of establishing a new Integrated BAE/MS program, which will give our students another graduate degree option. In parallel with this, we are working on a funding model for this that will make it highly attractive for students – I hope to be able to report on this in the next newsletter.

A major initiative that we are on the verge of launching is our Continuing and Distance Education program. This program will provide for 1-2 day short courses on a variety of topics, online certificate and masters programs, 1-2 day executive courses and customized corporate offerings. We have hired a new staff member, Amy MacIntyre, to coordinate these efforts and she will be making contact with many of you in the coming months. Dr. Susan Stewart, a joint appointment with Aerospace Engineering, will help with the development of new courses in renewable energy systems – see page 10.

Many of our alumni, faculty and students have received promotions and awards in the recent past and I would like to congratulate them. These are included in various sections of this newsletter. These forms of recognition further attest to the quality of our program and the leadership role that our alumni are playing in the industry.

Many of you would have received a letter from me in the Fall launching our Annual Giving program. The intention is to provide an opportunity for alumni and friends to support the AE Program on a regular basis and to be sure that all gifts are being utilized to advance the program. We deeply appreciate all the support that we receive and can assure you that it is making a difference to our students and the program, especially in the current economic climate.

Thank you for your continued support.

Best regards,

Dr. Chimay Anumba
Professor and Department Head

On the Cover: Obama photo courtesy of Penn State Live/Andy Colwell;
Nittany Lion Shrine photo courtesy of Penn State Live/Chris Koleno
Historic Presidential Visit to Penn State AE Research Facilities

On Feb. 3, President Barack Obama and U.S. Energy Secretary Steven Chu were on the Penn State University Park campus to visit with University faculty and researchers regarding Penn State’s role as the lead partner of the Energy Innovation Hub.

The Department of Energy has launched three Energy Innovation Hubs across the nation focusing on fuels from sunlight, nuclear energy and energy efficient buildings. Penn State will provide overall leadership for the Greater Philadelphia Innovation Cluster (GPIC) for energy-efficient buildings, located at the Navy Yard in Philadelphia. Dr. James Freihaut, associate professor of architectural engineering is the technical director for the DOE Hub. This involves 11 academic institutions, two DOE laboratories, five high-profile global industry partners, regional economic development agencies, and community colleges. During his visit, Obama focused on the importance of work being done at the Energy Innovation Hub at the Philadelphia Navy Yard.

At Penn State, researchers are investigating ways to create more energy-efficient building technologies, said Dr. Chimay Anumba, Professor and Department Head of Architectural Engineering. Anumba said the ideas Obama expressed in his State of the Union address are central parts of the projects that Penn State researchers are working on.

During his visit, the President and Secretary Chu met with Dr. Freihaut and toured his research laboratory in the AE department which focuses on energy-efficient building solutions and indoor air quality.

AE Research Associate Paul Kremer and several students were extremely helpful in preparing the laboratory and assisting with the facility tour and demonstrations for the Presidential visit.

Kremer commented, “I noticed that both the President and Secretary Chu showed great interest in the exhibits that we were able to present in the 30 minute tour that we were able to give to him before he went to Rec Hall for his speech. I was impressed that the President made a point of talking to each of the students we were allowed to have in the lab during his tour. Of course, this acknowledgement ‘made

President Obama and Secretary Chu with Dr. James Freihaut in his lab.

The President also delivered remarks at 12:30 p.m. to a large crowd of students, faculty, staff and invited guests in Rec Hall on the importance of investing in innovation and clean energy to put people back to work, grow the economy and win the future. He spoke on the value of supporting research initiatives that focus on energy efficiency in buildings.

Obama joked, “That may not sound too sexy until you know energy efficient buildings.” He went on to explain that our homes and businesses currently consume 40 percent of the energy used in the United States. Obama said, "Making our buildings more energy efficient is one of the fastest, easiest, and cheapest ways to save money, combat pollution, and create jobs right here in the United States of America." He said the discoveries made at Penn State will lead to more jobs in engineering, manufacturing, construction and installation.

Dr. Freihaut said, "We now have the opportunity to create the tools and technologies the industry needs to truly transform the building industry and radically improve the energy efficiency of building systems.”

The Department of Architectural Engineering was extremely honored to be a part of this historic visit by President Obama and Secretary Chu.
Alumni Updates

70's
Steve Barrell, PE ’79 is a civilian Marine, working in the Twentynine Palms, CA Marine Corp Public Works Department as a mechanical engineer. He is married with two adult sons. Steve can be contacted via Facebook, LinkedIn, or stevebarrell01@hotmail.com.

80’s
Charles Ricciardi ’82 is senior principal engineer, Global Engineering Systems with Campbell Soup Company in Camden, NJ. He is responsible for the planning and construction of all civil, architectural, and structural components of plant facilities.

Mark Kanonik ’89 is a senior structural engineer with EYP Architecture & Engineering P.C. Based in the Albany, NY office, he has more than 20 years of experience in historic preservation and adaptive reuse. He is also a former adjunct professor of architecture at Rensselaer Polytechnic Institute in Troy, NY. One of his projects, Building 53—Renewable Energy Global Headquarters in Schenectady, NY, was featured as the cover story in the September 2010 issue of Structural Engineering and Design.

90’s
Douglas Peters ’92 is now VP Operations at Robotics Engineering Excellence (RE2) in Pittsburgh. We are a small business focused on research, development, and manufacture of military and emergency responder manipulator arms and end effectors. Also, with the new position, I moved back to the Pittsburgh area.

David Allen Martin ’93 is a senior project engineer with CenterPoint Engineering in Mechanicsburg. He and wife, Ana have 3 year old twin sons Mitchell and Gabriel.

Richard French ’93 is a senior structural engineer with the California Dept. of General Services-Division of the State Architect. His responsibilities include design and construction oversight for K-12 schools and community colleges throughout California. He currently resides in San Diego with wife Silvia and sons Andrew (4) and Anthony (2).

00’s
Meral Kanik ’08 is a construction management engineer with Gilbane Building Company in Philadelphia, PA.

Andrew Martin ’10 field engineer with Hensel Phelps Construction. Responsible for establishing survey control and layout of various subcontractors and trades, production and trend tracking, safety plans and maintenance. I am currently working in West Virginia on a medium security federal correctional institute. It is a LEED silver, 110-acre site; hosting 1,200 beds, 15 buildings (including four housing buildings), as well as central utility plant.

Ryan Buff ’05 currently working with H.F. Lenz Company in Pittsburgh, PA.

Brian Franco ’05 currently working with Horton Lees Brogden Lighting Design in San Francisco, CA.

Andrew Kauffman ’06 and his wife Nicole, welcomed a new son, Caleb James born on Dec. 20. He weighed in at 7 lbs. 8 oz. and 20 in. long. He joins big sister Arianna (2-1/2 yrs. old).

Eric Sternberg ’08 electrical design engineer with Burdette, Koehler, Murphy and Associates in Baltimore, MD.

Rachel Sternberg ’08 project engineer with Columbia Engineering in Columbia, MD.

Gregory Eckel ’06 currently a structural engineer with Kling Stubbins in Philadelphia, PA, passed the spring 2009 PE Exam.

Atila Novoselac ’10g received tenure at the University of Texas at Austin in the Department of Civil, Architectural and Environmental Engineering.

Andy Springer ’01 project manager with Nova Partners, Inc. in Palo Alto, CA. Since becoming part of the Nova team in 2003, I’ve worked on projects ranging from ground-up commercial office buildings to high end data center and laboratory environments totaling over 1.2million square feet with budgets ranging between $3M to $112M. I completed the University of California San Francisco Institute for Regeneration Medicine Building in Sept. 2010. This project has gotten rave architectural and local reviews in San Francisco as the $123M, 68,500sf structure is basically built on the side of a cliff hugging Mount Sutro. Rafael Vinoly was the architect, DPR and Smith-Group acted as the design-builders and Nova Partners was the project management consultant. The project features lab benches, multiple gas systems, autoclaves, fume hoods, tissue culture rooms and procedure rooms among others. One of the most impressive features is the base isolation structural system, which allows the building to react independently if a major seismic should occur. The building is also targeted for USGBC LEED gold certification and features four landscaped green roofs, water efficient landscaping, optimized energy performance, recycled finishes, construction recycling and commissioning of the MEP systems. The project was funded both through private donations as well as through the passing of California Proposition 71 in 2004, which established a state sponsored group (California Institute for Regeneration Medicine) using bonds totaling up to $3 billion to fund stem cell research. The project has been featured in ENR, The Architects Newspaper and the San Francisco Chronicle and has won awards by the AIA (2010 Integrated Project Delivery) and DBIA (2010 Western Region Award for Best In-progress Design-Build Project). Here are a few links and if you need additional pictures, you can contact me at my work email or a_springer23@hotmail.com:

ALUMNI HONORS

Ted Lynch ’92,’96g In 2013, he will transition to the role of President and CEO at Southland Industries.

Dr. Lynch joined Southland full-time in 1996 following a series of graduate internships. He quickly gained invaluable experience managing several of Southland’s largest and most challenging projects in Las Vegas, NV, including the Sunset Station Hotel and Casino and the MGM Grand Hotel and Casino. Later, Dr. Lynch relocated to Southland’s Mid-Atlantic Division where he served as a contract executive and then as operations manager. In 2001, he was promoted to division leader, and over several years, grew the annual volume from $32 million to $126 million by championing Design • Build, project teaming, innovative engineering solutions, and operational excellence.

Dr. Lynch was a co-founder of the Partnership for Achieving Construction Excellence (PACE), an industry-university alliance focused on education, research and interaction. He is a member of the Design-Build Institute of America (DBIA), where he has served on the Education and Research Committee, and the Washington Building Congress (WBC).
Angela (Geary) Fante (BAE/MAE ’00 Structural) has been selected as the 2011 Young Engineer of the Year by the Delaware Valley Engineer’s Week Committee. The Young Engineer of the Year Award annually recognizes an outstanding engineer under 35 years of age who has demonstrated leadership and made a recognized contribution to the engineering profession, as well as contribution and participation in charitable, civic, and technical affairs. The award will be presented in February at the annual kick-off ceremony for Engineers Week.

Angela is an associate, group manager with Ballinger in Philadelphia, PA.

In addition to letters of recommendations from co-workers and clients, Dr. Louis Geschwindner provided a wonderful letter for inclusion in the nomination packet. Angela appreciates that ten years after graduation, her AE family is still supporting her!

Tracey (Nawrocki) Jumper ’05 has been selected as ASHRAE’s New Face of Engineering as a part of National Engineers Week (Feb. 20-26). The top ASHRAE New Face will be included in a full-page ad in USA Today along with the New Faces from the other sponsoring organizations of National Engineers Week.

Tracey is a commissioning specialist and director of commissioning services with Cornerstone Group Commissioning, Ltd. in Wilkes-Barre, PA.

ASHRAE, as lead society for National Engineers Week, developed “The New Faces in Engineering” as a way to spotlight up-and-coming young engineers. Requirements for the nominees are a degree in engineering, employment between two to five years as an engineer, and involvement in projects that significantly impacted public welfare or otherwise furthered professional growth.

The Lighting Practice has received Women Business Enterprise (WBE) certification from the New York State Department of Economic Development, a Division of Minority and Women’s Business Development.

Helen Diemer ’81 is an owner and design principal of The Lighting Practice, a Philadelphia based architectural lighting design firm.

With expertise in lighting design for public, corporate, retail, healthcare, hospitality and education environments, TLP is happy to have the opportunity to network with and do business with the many companies working in New York and seeking WBE-certified firms.

2011 Outstanding Engineering Alumna

The Department of Architectural Engineering is pleased to announce that Ms. Hope Furrer ’73 has been named a 2011 Outstanding Engineering Alumna of the College of Engineering. The award is intended to recognize graduates who have reached exceptional levels of professional achievement. It is the highest honor bestowed by the College of Engineering. She will receive the award at a ceremony to be held on campus on April 21.

Ms. Furrer has practiced structural engineering since 1973. As senior project engineer with a national architectural/engineering firm, she was responsible for the design and coordination of the structural discipline on several major building projects. In 1992, Ms. Furrer established Hope Furrer Associates, Inc., which specializes in structural engineering for architectural and interior renovation projects.

Outside of her successful business activities, Furrer has maintained an active role in a variety of professional organizations and affiliations. In addition, she has maintained a long-standing friendship and interaction with the Penn State AE Department. She has served on the Department’s Industrial and Professional Advisory Council (IPAC), serving as Chair in 1991. She is also a regular member of the AE Senior Thesis Jury and has provided guest lecturers for our AE Professional Practice course. She also served as a Keynote Speaker for the Marvin J. Kudroff Memorial Lecture Series in the AE and IE Departments.

Hope Furrer’s comprehensive background, her management skills and diversified experience have contributed to the success and growth of the company which she founded. She is an excellent role model and mentor for the Architectural Engineering students.

In 2010, Ms. Furrer was name an Architectural Engineering Centennial Fellow. The AE Centennial Fellows represent alumni/ae who have made exceptional contributions to the first Century of our programs and those with the potential to make equally significant contributions to the second Century of AE.

We are very pleased that one of the most distinguished female members of the Department of Architectural Engineering’s extended alumni family has been honored with the 2011 Outstanding Engineering Alumna Award.

Nutcracker Dad!

Billy Hodges ’95 This is the story I’ve told 100 times in the last 100 days...

“So I volunteered to be in the local ballet theater’s production of the Nutcracker this year because all my kids take dance there and my two oldest are in the production. With no dance experience, I’m thinking I’ll get cast as the ‘dad’ or some other bit part.

I walk in on the first day of rehearsal and the teacher says, “Hi, I’m Amber. This is Alia – she’s playing Clara – and you are the Nutcracker! Let’s get started!”

Billy is director of sales and marketing with Illuminations Inc. in Newtown Square, PA. He resides in Swarthmore, PA with wife Denise and their four children Lillian, 3; Nathaniel, 5; Rose, 7; and Grace, 9.

Thanks for being a good sport and sharing your story!
The annual AE Career Fair, held Oct. 19, 2010, at the Bryce Jordan Center, was attended by 114 companies and more than 450 students from freshmen to graduate students. In addition students from a number of other Penn State programs were also in attendance including a contingent from architecture, civil, mechanical, and electrical engineering. As in previous years, we were pleased to welcome seniors from the architectural engineering program at North Carolina A&T State University.

Four companies generously agreed to support the AE program by serving as Career Fair Industry Leaders, the highest registration category available. Filling these prominent positions this year were Forrester Construction Company, Rockville, MD; HDR Inc., Alexandria, VA; Hensel Phelps Construction Company, Austin, TX; and Southland Industries, Dulles, VA. Support for the AE Career Fair included 34 Corporate Partners and 24 Sponsor companies in addition to the many general registrations for the 2010 event. As usual, a large number of AE alumni returned to the Career Fair as recruiters and to renew ties with the AE department and faculty.

Monday night’s career fair social was held at the Hintz Family Alumni Center. The social remains an excellent way for students, faculty and companies to talk and get acquainted in an informal setting. In addition, a brief closing ceremony was held at the career fair social to formally end the year-long centennial celebration of the AE department.

If you are interested in being on our mailing list to get information about the 2011 Career Fair, please send your company contact information to Deb Sam at dsam@psu.edu.

Industry Leaders
Forrester Construction Company
HDR Inc.
Hensel Phelps Construction Company
Southland Industries

Corporate Partners
Alexander Building Construction, LLC
ARAMARK
Balfour Beatty Construction
Barton Associates, Inc.
Barton Malow Company
Burdette Koehler Murphy & Associates, Inc. (BKM)
Cannon Design
Clark Construction Group, LLC
Clark-Nexsen
ERCO Lighting
EwingCole
Gilbane
Girard Engineering, PC
Hill International, Inc.
ISEC, Inc.
James Posey Associates
JBA Consulting Engineers
Leach Wallace Associates, Inc
H.F. Lenz Company
Meta Engineers
Michael Baker Engineering
Mueller Associates, Inc.
Office of Physical Plant (OPP) - Penn State
Pierce Associates, Inc.
Providence Engineering Corp.
R.G. Vanderweil Engineers, LLP
Ruby + Associates, Inc.
Skanska USA Building
SmithGroup
Structura, Inc.
Truland Systems Corporation
Turner Construction Company
Wiss, Janney, Elstner Associates, Inc.
Wohlsen Construction Company

Sponsors
Arup
Bard Rao + Athanas Consulting Engineers, LLC
BE & K Building Group
BPGS Construction
Brinjac Engineering, Inc.
Clark Builders Group
dck worldwide, LLC.
EDIS Company
F. B. Harding, Inc.
Foreman Group
GHT Limited
Gilbane Building Company
Hope Furrer Associates
Joseph R. Loring & Associates, Inc.
JVP Engineers, PC
Lutron Electronics Co.
McClure Company
Nutec Design Associates
RMF Engineering, Inc.
RTKL Associates
Sauer Incorporated
Schlenger/Pitz & Associates, Inc.
Sebesta Blomberg
Walsh Construction

To view all of our attendees, please visit our website at: www.engr.psu.edu/ae/job_placement/career_fair/indexPostFair010.asp
DBIA Places 1st in Regional Competition

After an extremely stressful 30-hour period, the Penn State student chapter of the Design Build Institute of America (DBIA) took first place at the Associated Schools of Construction's regional Design-Build competition in Morristown, NJ, on Nov. 13.

The team had to develop the design, specifications, cost estimate, and schedule for a $6 million firehouse facility with 16 months from award to turnover. Throughout the day the “owner” issued 17 addenda, with the last arriving only six hours before the proposal was due.

The Penn State team spoke intelligently, discussing their plan for the model uses that improved the delivery of the building and well engrained sustainability points (pursuing LEED gold); including a clerestory to get some internal day lighting. They also successfully addressed the return on investment of the money being spent for energy points and included a thoughtful risk assessment and mitigation plan. The team was awarded $2,000 for the student chapter.

MCAA - Student Chapter Receives Certificate of Merit in Student Competition

The Mechanical Contractors Association of America, Inc. (MCAA), through its Career Development Committee, sponsored a competition for its student chapters. The judges met on Jan. 19 in Rockville, MD, to determine the finalists. The final four were selected from Colorado State University, Milwaukee School of Engineering, Pittsburg State University (Kansas), and University of Washington. The Penn State AE student chapter of MCAA was among seven institutions that were recognized with a certificate of merit in the competition.

The purpose of the competition was to provide chapter members with an experience that will enrich their education by challenging them to develop their problem-solving and management skills, technical acumen, creativity, resourcefulness, and knowledge of mechanical systems. Students gained valuable experience in working with a team of peers against a schedule, preparing a written proposal.

SSAE FALL 2010 MILESTONES

After many months in the making and much help from the Alumni Society of Architectural Engineers (ASAE), Penn state architectural engineering alumni from across the nation were successfully paired with 40 fourth years at the first annual AE Connections Kickoff. This celebration event, open to all AE’s, boasted over 150 students, ten faculty, seven present alumni mentors, and 24 alumni mentors through its live webcast. Other events included the House Interfused (for career fair tips and help) and Know Your Mentor. The House Interfused event was sponsored by the AE History Compilation Initiative.

SSAE's new exec position of historian and her newly created Yearbook Committee received a 140-page yearbook designed through Josten's online portal by the SSAE Yearbook Committee.

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SPRING 2011 PROJECTS

Among the many strategic plans of SSAE, this semester brings many projects spanning team building, professional preparation, philanthropy, and communication across all years to fruition.

AE Tours: Prospective students, alumni, or visitors can now re-connect with the department by requesting tours of various AE spaces and current research projects given by SSAE mentor members online at ssae.psuae.org/tours.

- Footsteps Initiative: Fourth- and fifth-year students will be organizing structured review sessions for the challenging third year class exams.
- AE Options Conference: This rework of the traditional options social will be a more interactive and professional way for 2nd and 3rd years to learn career potentials that result from each option. New aspects include an etiquette workshop and option break-out sessions.
- AE Logo Merch Sale: Various merchandise from hoodies to polos with the classic or centennial AE logo will be sold for a month’s time starting in mid-February to any and all alumni online at ssae.psuae.org/merchandise.

• Family Weekend: New fun way to show AE parents some of the current AE projects, classrooms, and house activities as well as some of the department's research.
• Alumni Mentors: If you would be interested in becoming an alumni mentor for a rising fourth-year AE, applications will open starting in April at alumni.psuae.org/mentor.

STUDENT MENTORING SPONSORSHIP

Alumni can now re-connect with current students through attending annual student-alumni events, becoming an alumni mentor, or considering various levels of support. Since funding is currently based upon student membership dues, we are reaching out to alumni who might be interested in sustaining the future success of the SSAE Mentor Program. To become a sponsor, visit ssae.psuae.org/sponsor.

With the help and support of our two advisers, Dr. Jelena Srebric and Prof. Moses Ling (newly appointed) as well as the rising leadership of the younger students, we anticipate SSAE to not only sustain its recent success, but to grow to even greater numbers.
Solar Thermal Systems Course Held
In November 2010, the Mid-Atlantic Solar Center co-sponsored with Ontility, Inc. a class on solar thermal systems at the Philadelphia Navy Yard. We were fortunate enough to have a few distinguished visitors including Finley Shapiro; James J. Gambino, vice president, technology commercialization: physical sciences, Ben Franklin Technology Partners, Southeastern Pennsylvania; Katherine Gajewski, director of sustainability, City of Philadelphia; Alan Greenberger, acting deputy mayor for planning & economic development and director of commerce, City of Philadelphia; and John Dee, instructor, Ontility, Inc. Some of the attendees posed for an informal photo above.

Autodesk BIM Experience Award
The Department of Architectural Engineering and Stuckeman School of Architecture and Landscape Architecture have won the Autodesk Building Information Modeling (BIM) Experience Award. The programs were honored by the manufacturer of three-dimensional design, engineering and entertainment software for incorporating BIM in the architecture, landscape architecture, and architectural engineering curricula. BIM is an integrated process for digitally exploring a project’s key physical and functional characteristics before it is built.

Robert Holland, associate professor of architecture and architectural engineering said, "Penn State is committed to providing our students opportunities that will help prepare them for careers in design, engineering and construction. Part of that is exploration of innovative building industry concepts such as building information modeling as well as integrated project delivery."

Holland said that BIM permeates much of the curricula. "Our fourth-year students from mechanical, structural, and lighting, electrical and construction engineering participate in an architectural engineering design studio where they use BIM frameworks to develop architectural form and space as well as learning how to integrate structures and building in a piece of architecture."

"A number of our fifth-year students put together teams as they participate in a year-long architectural engineering BIM capstone project. It’s kind of like a thesis project. And as a team, they utilize BIM to analyze a complex building and propose changes to the building’s design, particularly related to the improvement of sustainability, life cycle cost and constructability."

Holland cited a third example of BIM’s integration in the curriculum. "We have what we think is a pretty innovative studio where graduate and undergraduate students from the six major design and construction disciplines — architecture, landscape architecture, and the four AE disciplines — participate in a collaborative BIM design studio. In this studio, they form three teams of six students each, which reflect all these major disciplines and they use BIM and integrated project delivery to design as well as integrate the systems of a project."

The award recognized the interdisciplinary work between the programs and the use of energy analysis software tools in BIM courses and studios to encourage sustainable design practices. "One of the things we’re trying to do is force the students out of their discipline silos,” Holland explained. "We want them to spend more time in an environment where they need to collaborate and rely on each other and ultimately we hope as they graduate this will promote better collaboration of these disciplines and eventually a better built environment."

Congratulations to Bob Holland, John Messner, Kevin Parfitt and the rest of the team for this award!

Webinar Series
WPL Publishing hosted a four-part webinar series this past fall to help various professionals in the construction industry implement a successful building information modeling (BIM) project. Session 2: The BIM Implementation Guide: Defining BIM Scope and Setting the Stage for Measured Results was conducted on Nov. 3 by Dr. John Messner. He shared information about his successful experiences with BIM and advice on the best ways to develop BIM and BIM specifications for attendees’ organizations. As director of the Computer Integrated Construction Research Program at Penn State, he was primarily responsible for the development of the "BIM Project Execution Planning Guide," a widely accepted roadmap used by owners, designers, and contractors for planning BIM-driven projects that provide the full design-construction-facility benefits. The guide is available for download at www.engr.psu.edu/bim

AE CAREER FAIR
The next AE Career Fair will be held on September 27, 2011 at the Bryce Jordan Center.

Check out our Web site for further details: www.engr.psu.edu/ae/CareerFair2011.asp
Department News

SSAE Alum Light

The Student Society of Architectural Engineers (SSAE) is putting the spotlight on previous SSAE Officers to showcase their work then and now. Each semester, two alumni will be honored. The first two alumni to be honored were successful SSAE presidents of two separate decades: Tim Carr & Jonathan U. Dougherty.

Tim Carr, CFM, LEED AP
THEN: SSAE, president 1978-1980
❖ Developed a summer internship program (via Prof. Herb Wheeler) to link AE firms recruiting 5th year students for permanent employment to 3rd and 4th year students interested in summer work
❖ Organized the annual AE banquet which was held off campus (Mr. C’s) at that time (and organized by students)
❖ Annual picnic at Prof. Kummer’s hunt club near Seven Mountains
❖ Sailing Club
❖ State College Presbyterian Church Choir

NOW: Heery International, vice president, Raleigh
Program Management
❖ Department of Architectural Engineering Curriculum Committee, IPAC member
❖ The Carying Place (non-profit transitional housing), advisory board member
❖ Cary Family YMC, advisory board member
❖ Cary Rotary (service projects), past president & member
❖ Greater Triangle Chapter IFMA, Member, Past President

Jonathan U. Dougherty, Ph.D.
THEN: SSAE, president 1998-1999
❖ Started the “Dear Santa” Project, which raised nearly $8,000 over three years to provide Christmas for local families in need (in conjunction with The Second Mile)
❖ Organized the fall semi-formal which included Moses and Susan Ling jitterbugging and auctioning off a Louis Geschwindner autographed necktie
❖ Re-instituted the SSAE Options Social and annually recruited 12-16 alums representing the four AE options for the event
❖ Phi Alpha Epsilon (AE honor society), member
College of Engineering and Schreyer’s College Open House, AE department representative

NOW: James G. Davis Construction Corporation, Corporate Knowledge Center director
❖ Penn State Alumni Society of Architectural Engineers, president
❖ Penn State Alumni Association, life member
❖ Penn State Graduate School Alumni Society board of directors, College of Engineering representative
❖ Laborer’s Training Fund of Washington, D.C., Trustee
❖ U. S. Green Building Council’s Education Development and Training Committee, member

If you were an SSAE officer during your time at Penn State and would like to be recognized in the SSAE AlumLight, please visit: www.ssaе.psuаe.org/

Michael J. Horman Memorial Planned

In September 2009, the architectural engineering department lost a professor, colleague, mentor and friend with the passing of Dr. Michael Horman. A memorial is being designed and constructed to honor his 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 and construction of the memorial project is being fully funded by donations made from industry members, colleagues and students that worked closely with Dr. Horman through the research and activities in which he was involved.

The memorial will be located adjacent to the MorningStar Pennsylvania Solar Home located at the Penn State Center for Sustainability at University Park. The memorial will serve as an outdoor gathering and grilling space to host guests and visitors of the center. The proposed concept design utilizes the lower level blue stone patio adjacent to the Pennsylvania Morningstar Solar Home. Adjacent to the grill area, a gathering space consisting of rocks with stone infill benches will provide seating for visitors and event attendees. The memorial will include a keystone engraved in memory of Dr. Horman to honor his life and commemorate his contributions to the program. A bronze plaque will also be mounted in the patio space recognizing those who contributed donations to the memorial project.

The final design for the project will be completed once funding is received and a comprehensive scope of work can be developed.

If you are interested in donating to the Horman Memorial Project or obtaining additional information, please see our website: http://www.engr.psu.edu/pace/pace/horman_memorial.aspx?p=36

All gifts are tax-deductible.

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❖ Organized the annual AE banquet which was held off campus (Mr. C’s) at that time (and organized by students)
❖ Annual picnic at Prof. Kummer’s hunt club near Seven Mountains
❖ Sailing Club
❖ State College Presbyterian Church Choir

NOW: Heery International, vice president, Raleigh
Program Management
❖ Department of Architectural Engineering Curriculum Committee, IPAC member
❖ The Carying Place (non-profit transitional housing), advisory board member
❖ Cary Family YMC, advisory board member
❖ Cary Rotary (service projects), past president & member
❖ Greater Triangle Chapter IFMA, Member, Past President

Jonathan U. Dougherty, Ph.D.
THEN: SSAE, president 1998-1999
❖ Started the “Dear Santa” Project, which raised nearly $8,000 over three years to provide Christmas for local families in need (in conjunction with The Second Mile)
❖ Organized the fall semi-formal which included Moses and Susan Ling jitterbugging and auctioning off a Louis Geschwindner autographed necktie
❖ Re-instituted the SSAE Options Social and annually recruited 12-16 alums representing the four AE options for the event
❖ Phi Alpha Epsilon (AE honor society), member
College of Engineering and Schreyer’s College Open House, AE department representative

NOW: James G. Davis Construction Corporation, Corporate Knowledge Center director
❖ Penn State Alumni Society of Architectural Engineers, president
❖ Penn State Alumni Association, life member
❖ Penn State Graduate School Alumni Society board of directors, College of Engineering representative
❖ Laborer’s Training Fund of Washington, D.C., Trustee
❖ U. S. Green Building Council’s Education Development and Training Committee, member

If you were an SSAE officer during your time at Penn State and would like to be recognized in the SSAE AlumLight, please visit: www.ssaе.psuаe.org/

Michael J. Horman Memorial Planned

In September 2009, the architectural engineering department lost a professor, colleague, mentor and friend with the passing of Dr. Michael Horman. A memorial is being designed and constructed to honor his 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 and construction of the memorial project is being fully funded by donations made from industry members, colleagues and students that worked closely with Dr. Horman through the research and activities in which he was involved.

The memorial will be located adjacent to the MorningStar Pennsylvania Solar Home located at the Penn State Center for Sustainability at University Park. The memorial will serve as an outdoor gathering and grilling space to host guests and visitors of the center. The proposed concept design utilizes the lower level blue stone patio adjacent to the Pennsylvania Morningstar Solar Home. Adjacent to the grill area, a gathering space consisting of rocks with stone infill benches will provide seating for visitors and event attendees. The memorial will include a keystone engraved in memory of Dr. Horman to honor his life and commemorate his contributions to the program. A bronze plaque will also be mounted in the patio space recognizing those who contributed donations to the memorial project.

The final design for the project will be completed once funding is received and a comprehensive scope of work can be developed.

If you are interested in donating to the Horman Memorial Project or obtaining additional information, please see our website: http://www.engr.psu.edu/pace/pace/horman_memorial.aspx?p=36

All gifts are tax-deductible.
U.S.-Nigeria International Workshop Held

AE Department Head Chimay Anumba organized a four-day International Workshop on Innovative Design Approaches to Sustainable Buildings in Abuja, Nigeria, on Nov. 29 - Dec. 2, 2010.

The workshop focused on the development of innovative design approaches to sustainable buildings as a means of supporting the drive towards greater innovation and sustainability in both the U.S. and in Nigeria. The ultimate goal was to advance fundamental research in the design of sustainable buildings through an exploration of the opportunities for innovation, identification of local materials and practices that will enhance sustainable design, and the potential role of emerging computing and information technologies.

The specific aim of the workshop was to provide a forum for U.S. scientists and researchers to interact with their Nigerian counterparts with a view to:

♦ Understanding the key issues in the development of innovative design approaches to sustainable buildings;
♦ Comparing and contrasting the approaches to engendering innovation in the design of sustainable buildings in a developing country (Nigeria) and a developed country (U.S.);
♦ Exploring the extent to which local materials and design practices can be deployed in the development of sustainable buildings;
♦ Developing an agenda for future joint research initiatives that will facilitate knowledge exchange between the US and Nigeria.

In addition to the above, the workshop also explored the potential for a multifaceted approach to engaging the industry in both countries. For more details see: www.engr.psu.edu/ae/US-Nigeria-Workshop/index.asp

Faculty Honors

Associate Professor M. Kevin Parfitt has been selected as one of three Penn State Teaching Fellows for 2011-12.

The Teaching Fellow Award was established jointly in 1986 by the Penn State Alumni Association, in consultation with the Undergraduate Student Government and the Graduate Student Association. Its purpose is to honor distinguished teaching and provide encouragement and incentive for teaching excellence at Penn State.

The award will be presented at a ceremony to be held on campus on March 23. Parfitt’s name and photograph will also be added to the permanent Teaching Fellow Award plaque located in the HUB Robeson Center on the University Park Campus.

Dr. Chimay Anumba, professor and department head of architectural engineering, has been appointed a visiting chair professor by Tsinghua University, China’s leading engineering university. He will visit Tsinghua annually over the next three years and will collaborate on research with Tsinghua faculty and graduate students. Dr. Anumba is also a visiting professor at another Chinese University: Chongqing University, and holds/has held visiting professorships at universities in the U.S., United Kingdom, Malaysia, Hong Kong, Korea and Nigeria.

New Faces

AE Bookkeeper Wendy Flanagan and her husband Alan, welcomed a new daughter, Kaitlin Lee, on Dec. 9, 2010. She was 6 lbs., 10 oz., and 20 inches long. She joins her big brother, Sean, 3, in the Flanagan household. Congratulations!

The AE department is also pleased to welcome several new staff members.

Amy MacIntyre joined the AE staff as an external relations and continuing education coordinator. She will coordinate PR and alumni relations in the AE department as well as assist with the development and implementation of continuing and distance education activities.

Dr. Susan Stewart joined the faculty as a research associate. She is assisting in AE course development with particular emphasis on renewable energy systems.

Nicole Hane joined the AE staff as our new undergraduate program staff assistant. She will also be the bookkeeper of the Engineering Copy Center.

Ashley Wolfe is serving as the AE department bookkeeper while Wendy Flanagan is on maternity leave.

Welcome to all!

Faculty/Staff News
In November 2010, the National Energy Leadership Corps (NELC) sent student teams to perform energy efficiency assessments in the Centre County and Fayette County regions. More online courses and workshops in solar thermal and advanced topics are slated for launch this spring.

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

**Sustainable State Video Contest Promotes Global Happiness**

The Center for Sustainability has partnered with the Penn State Media Commons to present a Sustainable State Video Contest. This competition will explore what the Penn State community thinks and feels about sustainability through the lens of personal well-being. The contest is open to all Penn State students, faculty, and staff during the 2011 spring semester. In no more than three minutes, participants have the option of creating an original video that either highlights their personal definition of sustainability, or explains their vision for a more sustainable Penn State.

Twelve finalist videos will be presented at a public screening at the HUB-Robeson Center as part of Penn State’s Earth Day celebration on Apr. 22, kicking off a week of online public voting. Six contest winners will be announced on May 1 and awarded cash prizes of $1,000, $500, or $250. To complete guidelines and instructions, visit [http://tinyurl.com/25t8sf8](http://tinyurl.com/25t8sf8) online.
Focus on Research

AE Research Agenda on Building Performance Simulations Receives Significant Funding

For the past decade, a new generation of building performance simulation tools has been under development at Penn State AE and elsewhere. For the research work done under the supervision of Dr. Jelena Srebric, the main idea is to translate our successes in simulating airflow, energy and indoor air quality parameters for laboratory environments to real building simulations. With several pilot studies and intermediate successes so far, Dr. Srebric’s AE research group called the Building Science Group (http://www.buildingscience.psu.edu/) received five different grants from federal agencies, non-profit organizations, and industry during the fall of 2010. The combined total of these grants is nearly $4 million. Among these projects, the largest one ($2 million) is the study funded by the National Science Foundation under the Emerging Frontiers in Research and Innovation (EFRI) program. Which for the first time, selected buildings as a rapidly advancing frontier of fundamental engineering research. In this program, only ten projects were funded out of 205 originally submitted proposals.

For the EFRI competition, the AE Building Science Group had worked with researchers from Harvard University to design a study that integrated the engineering, architecture and public health perspectives on buildings. The study title is "Creating Opportunities for Adaptation Based on PULSE (Population in Urban Landscape for Sustainable Built Environments).” The project aims to identify and test opportunities for urban neighborhoods to better adapt to energy and environmental requirements for high performance buildings. The study includes development of new simulation models as well as data collection at Penn State and Harvard campuses. This unique modeling effort will also take inputs from building occupants, and will aim to develop urban design performance metrics. The existing models, such as the one showing the Penn State campus wind flow pattern (see figure) will be a part of the overall simulation approach. The research team is interested to include other university campuses into this study after the first year of this four year project. For this involvement, interested parties should contact Dr. Srebric at: jsrebric@psu.edu.

Figure 1. The simulated wind flow pattern on Penn State campus shows that the incoming wind slows down in most of the campus areas (shown in blue) and speeds up in some areas (shown in green to orange) such as areas around IST or chemistry buildings. These observations can be deployed in design of natural ventilation or selection of areas for small-scale wind harvesting.

Dr. Srebric being interviewed in her lab by Dr. Lisa Van Pay from the National Science Foundation.

Additional info and the NSF EFRI press release are available online:


Faculty Travel

AE graduate student Craig Dubler, Chimay Anumba, and John Messner (pictured left) traveled to Cairo, Egypt on Nov. 16-19, 2011 to present ongoing research initiatives at the 27th International Conference on Applications of IT in the AEC Industry CIB-W78).

Messner (right) also got to experience a camel ride during his visit!
In Memoriam

We are saddened to report that Emeritus Professor Howard F. Kingsbury passed away on Tues., Jan. 25th. He was born March 13, 1922, in Elmira Heights, NY. He was the son of the late Rexford Earle and Rowena Coolbaugh Fink. He married the former Callie McHaffie, who survives in State College. He is also survived by five children, John H. Kingsbury, of Columbus, GA, Dallas G. Kingsbury, of Las Vegas, NV, Peter G. Kingsbury, of Albertville, AL, David E. Kingsbury, of Lock Haven, and Eve M. Kingsbury, of Maplewood, NJ. He is also survived by seven grandchildren and one great-grandchild.

Kingsbury graduated in 1943 with his BS degree in Glass Technology from the State University of New York, and received his M.S. in Ceramic Technology from Penn State in 1947. From 1947 to 1964, he spent time in industrial research and product development focusing on daylighting research and acoustical research and development. He worked for the Owens-Illinois Glass Company, the Pittsburgh-Corning Corporation, and for Sylvania Electric Products, Inc.

He returned to Penn State in 1964 to join the architectural engineering faculty. Kingsbury was course coordinator for undergraduate architectural acoustics work. He also served as undergraduate program officer in AE and on numerous committees in the College of Engineering and at the University. He was also one of the co-founders of the University of Leeds, Leeds, UK student exchange program with Penn State. From 1983 - 1985 he served as the interim department head and he retired from Penn State in 1991.

In 2007, he and his wife Callie established an endowment for the Howard and Callie Kingsbury Award for Excellence in Architectural Acoustics. The award is presented annually to recognize outstanding achievement by an architectural engineering undergraduate student. Throughout his retirement he remained active with the architectural engineering department assisting with acoustics courses and serving as a regular jury member for the AE Senior Thesis.

He frequently was an outside lecturer and involved with several community groups including the Patton Township Planning Commission and the State College Rotary Club and the University Park Airport Authority Board.

Kingsbury was a nationally recognized authority on architectural acoustics. He contributed extensively in his field through his involvement with the American Society for Testing and Materials (ASTM), the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE), and the National Institute of Science and Technology (NIST). He was a founding member and former director of the Institute of Noise Control Engineering (INCE) and a national accredditor for acoustical laboratories for NIST NVLAP Lab Accreditation Program. He was a registered Professional Engineer in Pennsylvania and an elected Fellow in both ASHRAE and ASTM.

A memorial service was held on Wednesday, Feb. 2, 2011, at Koch Funeral Home in State College.

Memorial contributions may be made to the Atrium at the Village at Penn State, 160 Lions Hill Road, State College, PA 16803 or the Howard and Callie Kingsbury Award for Excellence in Architectural Acoustics. Checks for the Kingsbury Endowment fund may be made payable to Penn State University and sent to the attention of Nancy Smith at the address shown below.

A TRIBUTE

In order to honor Professor Kingsbury, we would like to prepare a tribute book for his family. We are asking all former colleagues, friends and students to send their notes, comments, photos, or share a personal memory about Professor Kingsbury that can be included in the book. We know that it will mean a lot to his family to see the lasting impact that he has had on so many who knew him and held him in high regard.

Please send your note to the address or email below. Thank you in advance for your kind consideration.

Attention: Ms. Nancy J. Smith
Department of Architectural Engineering
The Pennsylvania State University
104 Engineering Unit A
University Park, PA 16802

Email: njsarc@engr.psu.edu
Your support is making a difference

**AE Donors - January—December 2010**

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 with both the Department and students facing cuts. We acknowledge the below gifts made between January and December 2010. If your name has been inadvertently left out, please notify us and we will rectify it.

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In order to provide AE alumni and friends with a more convenient and easy way to donate, we have now launched an annual giving program. Information regarding this program was sent by Dr. Chimay Anumba in the fall. Whether it is a one-time gift, or you choose to make a monthly or yearly donation, your generosity makes a difference. Giving online is a safe, simple and time efficient way to donate. Please use the following link to ensure that your gift is properly directed to the AE Department.

www.engr.psu.edu/ae/supporting_ae

Though it will only take a few minutes to donate, your gift will impact Penn State for years to come. At the Penn State AE Department, philanthropy is about more than dollars or cents. It's about you—improving life for people here and around the globe through your support. Thank you for making the Penn State AE Department a priority in your philanthropy. If you have any questions or are unsure how to donate directly to the AE Department please contact amacintyre@enr.psu.edu.

New Named Practitioner Instructor Position

Lutron Electronics Inc. and the National Housing Endowment (NHE), the philanthropic arm of the National Association of Home Builders (NAHB), have teamed up to create a new Lutron/NHE Practitioner Instructor position in the AE Department.

The generous donations from Lutron ($150K) and NHE ($100K) have increased the PI endowment to over $1 million.

A portion of the annual interest from the endowment is used to bring professionals to campus to teach selected courses. The remainder of the interest provides support for other aspects of the PI Program, including field trips, guest lecturers, instructor travel expenses, state-of-the-art instructional equipment, course materials, and other course-related enhancements.

Thank you to all of our PI supporters!

Additional information on the PI program is available on-line at:

www.engr.psu.edu/ae/pi/index.asp
This publication is available on alternative media upon request. UEd #: ENG 11-40

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