New Short Course Offerings—
AE Comes Online with Quality Distance Learning
Dear Alumni and Friends,

The new academic year has arrived and the Department is once again buzzing with activities – students shuffling between classes and rediscovering the delights of studio, Zenos and other favorite haunts; faculty trying to get back into the groove with teaching; and staff trying to ensure that everything continues to run smoothly.

Over the summer, there was a variety of activities run by the Department. Some of these are itemized in this newsletter. I’ll briefly mention a few highlights. I have continued my efforts to reach out to alumni through regional receptions in Oakland CA, Princeton NJ, and Detroit MI. Following in the series were Los Angeles CA and a return to Baltimore early this Fall. It was great to meet over 90 alumni at these events and to see the variety of work that our alumni are engaged in.

Progress continues to be made on our Continuing and Distance Education program. Our overall strategy involves a four pronged approach:

♦ 1-2 day short courses on a variety of topical issues;
♦ Online ‘for-credit’ and non-credit courses, which will include anything from 1-2 hour webinars to multi-week 3-credit courses that will lead to a graduate certificate or master’s degree in an appropriate discipline;
♦ Custom-made offerings for firms, groups of firms or professional bodies. There could be in-house or at University Park;
♦ 1-2 day executive level courses on emerging trends in architectural engineering. These will typically be held at University Park but other locations will be considered.

This newsletter contains a listing of currently available short courses, which could be delivered at University Park, at urban locations or in-house at company premises depending on the demand (see page 12). The initial set of online courses being developed is focused on providing a ‘High Performance Building’ track in the new Penn State professional master’s degree program in Renewable Energy and Sustainable Systems (RESS). Other courses are being developed so keen a close eye on the Department’s Website. Also feel free to contact Amy MacIntyre (our Continuing and Distance Education Coordinator) if you are interested in available courses, would like to suggest a new course, would like a customized or in-house course offering, or would like to contribute as an instructor.

I am also pleased to announce that we have now received approval to run another summer study abroad program in China – see page 13. This resulted from the tireless efforts of Professor Moses Ling over the last three years. The program will run in the 2nd half of summer and will provide a learning experience that involves spending time in Beijing, Shanghai, Shenzhen and Hong Kong, with students taking 4 courses and earning 12 credits.

The integrated BAE/MS program is now at the final stages of approval and should be available before the end of the Fall semester. This will enable top quality AE students to spend a 6th year at Penn State working on research leading to an integrated BAE/MS qualification. It is our intention to make this additional year cost-neutral to students through an innovative funding model in collaboration with leading architectural engineering and construction firms. Further details will be available shortly.

Please join me in congratulating our alumni, faculty and students that have received promotions, awards, recognitions and family additions in the recent past. Some of these are included in this newsletter.

Finally, I would like to thank you for your continued support and generosity to the AE Program. Many of you kindly responded to our annual giving request last year and others contributed following the ‘LionLine’ calls made by students in the Spring. Your gifts are of tremendous value to us in the current economic climate.

Best wishes for the remainder of 2011,

Chinmay Anumba
Professor and Department Head
Lance Charriere ’66, ’73g is the new vice president of business development for Skanska USA’s building business unit in the north Texas region. His primary responsibilities include developing and promoting the Skanska brand and building new business relationships in the metro area, particularly in health care and higher education. A native of Sharon, PA, Charriere is a Dallas Arboretum board member and co-chairs the arboretum’s architecture and construction committee. He also is on the advisory board of the University of Texas at Dallas’ Center for Brain Health.

Carole Cramer-Pait ’74 is a mechanical engineer with the Department of the Army, Division of Public Works in Fort Meade, MD. Responsibilities include repair, sustainment, and modernization of base facilities.

80’s

Lynn Mastandrea ’85 associate with the law firm Gibbs, Giden, Locher, Turner and Senet, LLP. I represent both private and public entities in construction and commercial transactions and disputes. My practice focuses primarily in the area of construction law, including construction contracting, bid protests, dispute resolution, delay claims, and complex construction defect litigation.

90’s

Tom Piombino ’95 project director/process group leader with Integrated Project Services, Inc, in West Chester, PA. I manage the process group of IPS, a Pennsylvania-based Multinational architecture, engineering, construction, commissioning, and validation firm who specializes in biopharmaceuticals. I am also a process architect and project director on the design/engineering of bulk biotechnology and vaccine facilities. I made a trip back to Penn State recently and was amazed at just how much it has changed. Great place. Great memories.

Daniel J. Flickinger, LEED AP, ’97 project engineer and project manager with Harrisburg-based Alexander Building Construction Co. has earned the designation of certified construction manager (CCM) awarded by the Construction Management Association of America.

Marc Bowen, ’97 principal with Reuther + Bowen in Dunmore, PA. Responsibilities include ownership and management of a 12-person consulting structural engineering firm working throughout the mid-Atlantic United States and Puerto Rico. Currently working on a 14-story hospital in New York City and a 283,000 gross-square-foot cancer center in San Juan.
Alumni News

Alumni Honors...Continued

Robert A. Young, FAPT, PE, LEED ap, MSAE’84, was awarded the University of Utah Distinguished Teaching Award at the University’s commencement in May. The award, established in 1965, recognizes “consistent outstanding teaching” that integrates “innovative pedagogy” and “demonstrates exceptional abilities to motivate student learning.” The award also recognizes “concern for students and their wider education” and “exemplary contributions to the educational process outside the classroom.” Professor Young is the director of the Historic Preservation Program at the University of Utah College of Architecture + Planning and a co-founder of the Traditional Building Skills Institute at Snow College. He joined the faculty in 1993 and his teaching and research focus on environmental systems and stewardship of the built environment using historic preservation and reuse of existing buildings to enhance sustainability.

Scott Good ’85 recently received the Excellence in Entrepreneurship Award for 2010 from the Chamber of Business and Industry of Centre County. Good is president of Goodco Mechanical, Inc, a commercial and residential HVAC and Plumbing contractor in State College as well as the President of Energy Stewards, Inc, a commercial turnkey lighting retrofit company also located in State College. Good started Goodco in 2008 and Energy Stewards in 2010. His companies currently employ about 40 employees.

Alumni News ...continued

Paul Bellas, ’98 owner’s representative and project and controls manager with the International Speedway Corporation in Daytona Beach, FL. Responsible for capital planning, budgeting, design and construction management for 12 NASCAR speedways.

00’s

Heather (Lion) Kilroy ’05 lighting designer with the Lighting Practice, Inc., in Philadelphia, PA. Responsibilities include design and project management.

Brian Genduso ’04 associate structural engineer with Hammel, Green & Abrahamson (HGA) in Milwaukee, WI. He is responsible for structural design and project management for small and mid-size hospitals, offices, and arts-related buildings. I just wanted to share with the rest of the AE family that my wife and I are proud parents of a beautiful little girl, Madelyn Paige, born on Feb. 15, 2011. She of course wore a Penn State knit hat home from the hospital!

Christine Brazill ’04 electrical engineer with Potomac Energy Group in Falls Church, VA.

Nicole Baer ’01 project manager with KCI Technologies, Inc., a building structures practice in Fallston, MD. She is a structural engineer for building projects and a project manager.

We want to hear from you!
Please take a moment to send an alumni update on-line:
www.engr.psu.edu/ae/contact/Alumni-Update-Form.asp

OMISSIONS
Our apologies for the following omissions in the Spring 2011 newsletter for acknowledgement of alumni donations during 2010 (Gifts to $999):
Chuck Malacarne ’79 and Craig Myers ’81.

Thank you very much for your support!

IN MEMORIAM

Jeffery D. Park, 50, passed away Apr. 6, 2011, in Steamboat Springs, CO, after a year spent courageously battling lung cancer. He obtained his master of engineering degree in AE in 2007. He was a sustainable education manager with market development at Watt Stopper/Legrand responsible for lighting design, lighting management, sustainable building education, intelligent buildings, and energy codes. He is survived by his wife, Heather; and three sons, Griffin, 7, Baden, 6, and Owen, 2, all of Steamboat Springs.

David Nicholas, 63, passed away on Mar. 20, 2011, in Colleyville, TX. He was a member of the AE class of 1974. Nicholas was a program manager with Kellogg, Brown, and Root (KBR) in Houston, TX. He is survived by his wife of 42 years, Rene; and son, Jason.

Timothy A. Heltman, 56, of Bellefonte, died on Mar. 27, 2011, after a long and courageous battle with lung cancer. Heltman was a 1977 graduate of Penn State AE program. He was employed at Penn State in the Office of Physical Plant for 25 years. He is survived by wife, Judy three sons, three step children, a sister, a brother, and 10 grandchildren.

David A. Krailo, 61, of Nashua, NH, died Feb. 4, 2011, following a brief illness. He was a 1972 graduate of the Penn State AE program. Prior to his early retirement in 2008, he had been employed by Osram Sylvania since 1972. He was the fluorescent product manager from 1985-1995 and then technical manager of special markets and commercial engineering until his retirement. Krailo was a member of the Illumination Engineering Society (IES) since 1970 and served as chairman of the IES Management Committee and Progress Committee. He is survived by his wife, E. Gwen (Haddad) Krailo and son Douglas L. of Nashua.

Jeffrey P. Salvin, 67, of Lake Wales, FL, died on Aug 20. Mr. Salvin was a 1967 graduate of the AE program and received a master’s degree in construction management from the Florida International University. After college he served as a captain in the Army Corp of Engineers. Before retirement from the federal government, he supervised the building of hospitals and nursing homes for the Veterans Administration and courthouses for the General Services Administration for almost 30 years. Soon after retirement, he established Edgewater ADR, in Miami, and led their work in assessing and resolving construction claims. Salvin is survived by his beloved wife Barbara, son Jason, and grandson Daniel.

Michael J. Sabo, 80, of West Middlesex, PA and Naples, FL, passed away on June 24, 2011. He was a 1954 graduate of the Penn State AE program. During his career, he supervised the structural and site planning of many projects in Western Pennsylvania as a partner in the firm HHSDR. Sabo was a member and past president of the Pennsylvania Society of Architects and held a P.E. license in Pennsylvania. He is survived by his wife Margaret; two daughters; two sons; a sister; and five grandchildren.
HOK / Vanderweil Team Wins $10,000 National ‘Next Generation Design’ Competition

Brandon Harwick ’02 project lead engineer and Patrick Murphy ’07 mechanical engineer both with Vanderweil Engineers along with several architects from HOK including John Jackson and Antony Yen, (both Penn State architecture alumni), won the prestigious METROPOLIS magazine 2011 ‘Next Generation Design’ competition.

The 8th annual contest challenged young designers to “Get the Feds to Zero.” With the help of the U.S. General Services Administration, the magazine selected an eight-story GSA property in Los Angeles as the subject of the competition. Submissions proposed retrofits that would help the 1965 office building attain a zero environmental footprint.

The winning submission, Process Zero, was as focused on the integrative design process as it was the final design, which included natural ventilation, solar-thermal heating, radiant floors, chilled beam DOAS, thin-film photovoltaics, and an innovative algae bioreactor facade. The fully integrated design solution collects and cleans water and reduces energy use so consumption is equivalent to on-site renewable energy production in a healthy, uplifting workspace for federal civilian employees.

Several members of the 15-person team including Sean Quinn, HOK, project lead architect, Scott Walzak, HOK façade architect as well as Penn Staters Brand Harwick, Pat Murphy, Antony Yen, and John Jackson came to campus on Sep. 8 to present the design to AE and architecture faculty and students as an example of interesting work that alumni are doing and to showcase the benefits of collaborative design.

More information on the project can be seen online at: www.process-zero.com or see the feature article in the May 2011 issue of METROPOLIS: www.metropolismag.com/story/20110512/group-effort-the-next-generation-2011-winner.

Applying Sustainable Techniques to Indoor Pools

A sustainable indoor pool system designed by Stephen Witek ’97, president of Seed Inc., in Incline Village, NV, was featured in the February 2011 issue of Green Source, the magazine of sustainable design.

Rainforth Grau Architects and SEED, Inc. were contracted by the city of Roseville, CA to construct an innovative natatorium in the Roseville Aquatics Center with greenhouse-like features. The center, which was completed in 2009, utilizes solar thermal heating to significantly reduce the reliance on non-renewable resources for heat generation. The glass and polycarbonate building allows the space to take advantage of the sun’s energy through passive solar heating and can maintain warm temperatures even when it is 45 degrees Fahrenheit outside. Passive cooling is achieved when the heat rises up through a 21,000-square-foot, retractable roof and cooler air is naturally drawn into the space from side openings. The typically dry west coast air provides a form of passive dehumidification that traditional indoor pools must utilize compressors and refrigeration equipment to achieve. Natural light from exterior glazing and rooftop skylights illuminates interior spaces of the building thereby reducing the need for electric lighting during much of the daytime hours. In addition, water is drawn through a heat exchanger that transfers heat from the solar heating loop to risers servicing sinks and showers. Witek says, “The integration of the solar thermal system into the building’s heating and boiler systems, and its ability to utilize that heat in domestic water and pool water and other areas of the building, is unprecedented.”

More information on the project can be seen online at: www.greensource.construction.com/features/solutions/2011/february/1102_Sustainable_Indoor_Pools.asp
AE SENIOR THESIS ACTIVITIES
The 2011 Senior Awards and Recognition Banquet was held on Apr. 29 at the Nittany Lion Inn. The Department of Architectural Engineering was very pleased to present more than $116,000 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. The 2011 scholarships and awards are listed below.

2011/12 AE SCHOLARSHIPS / SPONSORS
AE Alumni Scholarship
Gladys M. Baird Memorial Scholarship
Borda & Fernsler Family Scholarship
BR + A Consulting Engineers
Prof. Jack Everett and Prof. Melvin Isenberg Memorial Scholarships (sponsored by Eugene Bard)
Cagley & Associates Scholarships
Clark Construction Group Scholarship
AE Class of 1975 Scholarship
EwingCole Award
Martin U. Dougherty Endowed Scholarship in AE
Herbert Duffield LLC Scholarship
Prof. John Flynn Memorial Scholarship
Foreman Program & Construction Managers Inc. Scholarship
Hope Furrer Associates Scholarship in AE
Louis and Judy Geschwindner Endowed Scholarship
Illumination Engineering Society - Philadelphia Sect. Scholarship
McKamish Family Trustee Scholarship
Robert J. McNamara Scholarship
Charles A. Merica Memorial Scholarship (sponsored by Clark Construction Group)
Professor Vincent Pass Scholarship (sponsored by Joseph & Marlene Borda)
Peerless Lighting Scholarship
Melvin H. Peters Endowed Scholarship
Pittsburgh Builders Exchange Scholarships
James M. Pohlen Memorial Scholarship
John R. Potter Memorial Scholarship
Franklin Ruth Memorial Scholarship
Ryan Biggs Assoc. Scholarship
SmithGroup Scholarship
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

2011 AWARDS
John J. Brinjac Memorial Award - Outstanding 5 Year Performance and Record of Study in AE (sponsored by Brinjac Engineering Inc.)
Cannon Design Outstanding Record of Study in HVAC - 5th year (sponsored by Cannon Design)
Cannon Design Outstanding Performance in Mechanical in the 4th Year AE Class
Lite Control Outstanding Performance in Lighting/Electrical in the 4th Year AE Class
James G. Davis Construction - Outstanding Capstone Project

AE SENIORS GARNER TOP HONORS
A panel of 37 industry professionals met to judge the top eight fifth-year thesis presentations. The following students presented their projects for the jury. The senior thesis award winners are listed below.

PSPE/PEPP - Best Overall AE Senior Thesis - Kathryn Gromowski
Acuity Brands/Lithonia Lighting - 1st Place Lighting/Electrical Thesis in Memory of Mickey Woods - Leland Curtis
Barton Malow Co. - 1st Place CM Senior Thesis - Christopher DiLorenzo
Cagley & Assoc. - 1st Place Structural Thesis - Kathryn Gromowski
Transystems Corporation - 1st Place Mechanical Thesis - Michael Riley
Balfour Beatty - 2nd Place CM Senior Thesis - Thomas Horensky
Barton Assoc. - 2nd Place Mechanical Thesis - Jonathan Peno
Barton Assoc. - 2nd Place Lighting/Electrical Thesis - Britnei Godusky
Hope Furrer and Assoc. - 2nd Place Structural Thesis - Tyler Meek
Simpson Gumpertz & Heger - Outstanding Senior Thesis in the Area of Sustainable Design - Kathryn Gromowski
Southland Industries - Outstanding Senior Thesis in the Area of Specialty Construction - Jason Brognano and Michael Gilroy
Thornton-Tomasetti—1st Place BIM Senior Thesis- BIMception
Stephen Pfund, Christopher Russell, Alexander Stough, and Thomas Villacampa
Thornton-Tomasetti—2nd Place BIM Senior Thesis- KGB Maser-Jason Brognano, Michael Gilroy, Stephen Kijak, and David Maser
Senior Thesis Kick-off Lecture
The AE department was pleased to host the Senior Thesis Kick-off Lecture on Apr. 28 at the Nittany Lion Inn.

John Tocci, CEO of Tocci Building Corporation, served as guest speaker. Tocci spoke on “The Super Integrated Team: Delivering Extraordinary Results Without the Drama.”

IPAC
The AE Industrial and Professional Advisory Council (IPAC) meetings were held in the College of Engineering on Mar. 23-25. AE faculty and students consulted at length with the AE IPAC team.

The focus of the discussions was on “Branding and Marketing the College and Departments in a Global Environment.” Additional discussions included a session on Industrial Trends, as well as breakout sessions focusing on Curriculum, Outreach, and Development in the AE Department.

Jonathan Dougherty ’99, ’06g, corporate knowledge center director from James G. Davis Construction Corporation, also provided the group with an update on recent activities with the Penn State Alumni Society of Architectural Engineers. As president of the ASAE, Dougherty welcomes all AE alumni to join the group and reconnect with your fellow AEs!

Greater Philadelphia Innovation Center (GPIC)
Located at The Navy Yard in Philadelphia, the goals of the GPIC are to improve energy efficiency and operability and reduce carbon emissions of new and existing buildings, and to stimulate private investment and quality job creation in the Greater Philadelphia region, the larger Mid-Atlantic region, and beyond. The GPIC will focus on full spectrum retrofit of existing average size commercial and multi-family residential buildings.

Recent GPIC activities include:
♦ Opening up the short-term GPIC headquarters in Building 101 and working with PIDC to help provide instrumentation for a planned renovation of the building
♦ Issuing Request for Proposals for project management and for design teams and a Request for Qualifications for construction management for the full-scale retrofit of Building 661, which will be the future GPIC headquarters and serve as a Living Laboratory.
♦ Working with personnel at the national laboratories, professional and technical societies, and other institutions to develop joint research, development, demonstration, and deployment programs leveraging the Building 661 project and the Navy Yard as a whole for technology demonstrations.
♦ Conducting many workshops and educational events to engage the building industry and other stakeholders in our work. A full calendar of events can be found at gpichub.org/events.
♦ Working with a team of local educators on the creation of The Sustainability Workshop, a highly innovative pilot project that provides a challenging, rigorous and engaging educational experience to a small group of high school seniors. Workshop students will work on cutting-edge projects focused on improving energy efficiency of building design, construction and renovation. It is expected that students at the Workshop will make real and tangible contributions to the work of GPIC.
♦ Releasing an RFP for strategic planning and marketing and communications planning
♦ Reviewing proposal submissions to the Opportunity Research Fund, with winners expected to be announced by the end of September.

Stay up to date with GPIC news and events by checking out the website at http://gpichub.org and blog, as well as following us on Facebook and Twitter (@gpichub).
Student Marshal

Matthew Geary, the top fifth-year student 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 and a minor in architecture. Matt chose Dr. Jelena Srebric, to serve as faculty marshal, however, she was unable to attend due to the birth of her first child! (photo right) Prof. Moses Ling served as faculty marshal in her place. (above).

During his time at Penn State, Geary was member of the National Society of Collegiate Scholars, the Golden Key International Honor Society, and the Tau Beta Pi Honor Society. He has been the recipient of the Evan Pugh Junior and Senior Award, the Sparks Award and the President’s Freshman Award as well as, being named to the Dean's List every semester since entering the AE program.

Geary is also a member of the American Society of heating, Refrigerating and Air-Conditioning Engineers, the Mechanical Contraction Association of America, and the National Home Builders Association. He has been an active athlete, involved in intramural sports as a team captain for football, volleyball, dodgeball, softball, and basketball. He has also served as a volunteer for Red Cross blood drives, THON, and various community activities with the Tau Phi Delta fraternity.

Following graduation, Geary began work as a mechanical systems engineer for the Westinghouse Electric Company in Madison, PA.

In addition to being named student marshal, he was awarded a life membership in the Penn State Alumni Association.

2011 PACE Research Seminar
The Partnership for Achieving Construction Excellence (PACE) Research Seminar was held on Apr. 21-22 at the Penn Stater Conference Center Hotel. Held each spring, the research seminar combines presentations of research results and timely industry speakers for a diverse audience of building industry professional and university students. The theme for this year’s seminar was “Creating Opportunities.” In addition, there were Penn State research and industry presentations on timely topics such as: energy and the building industry; BIM execution planning; business networking: expanding circles and creating opportunities.

The next (PACE) round table meeting will be held on Oct. 27-28.

Registration details are available online at: http://www.engr.psu.edu/pace/default.aspx

PLDC Convention
The Department of Architectural Engineering at Penn State is an official partner university for the Professional Lighting Design Convention to be held in Madrid, Spain, on Oct. 19-22, 2011.

The Professional Lighting Design Convention brings together professionals from all around the world to network and discuss the latest developments and trends in the lighting world. Even the most experienced of lighting professionals can deepen their knowledge of specific topics, expand their design skills and improve their professional practice by attending the series of outstanding papers and gaining new perspectives from research results and case study accounts. Partners of PLDC are professional associations from the field of light and lighting, universities that run lighting design programmes and degree courses for related disciplines, and established online or print media publications that support the event and its target of establishing architectural lighting design as a profession.

Conference registration details can be found online at: http://www.pld-c.com/

AE Alumni Receptions
Four more AE alumni receptions were held during the spring semester. AE Department Head Chimay Anumba enjoyed the opportunity to interact with the alumni. We would like extend our sincere thanks to our alumni and friends who helped to organize and host these events.

♦ Scott Butler and Randy Pollock, HDR, Princeton, NJ  
♦ Russ Sykes, SmithGroup, and Jay Ruby, P.E., Detroit, MI  
♦ Chip Israel, Lighting Design Alliance, and Victor Sanvido, Southland Industries, Long Beach, CA

Dr. Anumba plans to visit more cities in his on-going effort to keep the department’s connection to the AE alumni strong. If you would like to host a reception in your area/city, please contact Chimay Anumba (anumba@engr.psu.edu).
Faculty/Staff News

Three new babies joined the AE family this summer. Congratulations to the happy families!

Professor Jelena Srebric and Derrick Lampkin welcomed their first child. Their son, Zoran was born on May 10. He was 7 lbs., 5.5 oz. and 21 inches.

Assistant professor, Robert Leicht and wife, Alanna welcomed their second child, Stella Burkhart, who was born on July 16. She was 7 lbs., 15.5 oz. and 22 inches. She joins big brother Lochlan, 2.

Administrative support assistant, Nicole Hane and husband, Chris welcomed a son, Jordan David, who was born on Aug. 16. He was 7 lbs., 14 oz. and 19.5 inches. He joins big sister Cameron, 5, in the Hane household.

Play Ball!
Sarah Hoover, 7, daughter of Center for Sustainability staff assistant Sharon Hoover and husband, Scott, was selected to throw the first pitch at the annual College of Engineering Day at the Spikes baseball game on Aug. 27. A good time was had by all!

Wedding Bells
AE associate professor Linda Hanagan was married on July 16 to Stephen Holoviak. Stephen is a senior director in the Office of the Vice Provost for Educational Equity and the director of the Talent Search program at Penn State. Their new family includes Linda’s children: Cassie, 14, and James, 11, and Stephen’s children: Stephen, 14, and Patrick, 12.

Faculty Awards/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. Parfitt’s name and photograph will be added to the permanent Teaching Fellow Award plaque located in the Hetzel Union Building on Campus. In addition, to a $3,000 award and plaque, a $9,000 grant will be awarded to the AE Department for improvement of undergraduate teaching and learning.

In addition, Parfitt was a recipient of the 2011 Penn State Engineering Alumni Association (PSEAS) Outstanding Advising Award at a ceremony held on campus Apr. 1. The award was established by the PSEAS to recognize and reward outstanding advisers of Engineering undergraduate and graduate students.

Dr. Jelena Srebric was an invited speaker for the NAE’s 17th Annual U.S. Frontiers of Engineering Symposium held Sep. 19-21, 2011 in Mountain View, CA. The symposium examined additive manufacturing, engineering sustainable buildings, neuroprosthetics and semantic processing.

Symposium participants — engineers ages 30 to 45 who are performing exceptional engineering research and technical work in industry, academia, and government — were nominated by fellow engineers or organizations and chosen from approximately 315 applicants.

“The young engineering innovators of today are solving the grand challenges that face us in the coming century,” said NAE President Charles M. Vest. “We are proud that our Frontiers of Engineering program brings this diverse group of people together and gives them an opportunity to share and showcase their work.”

In addition, Dr. Srebric also presented a plenary speech titled, “Indoor Air Quality in Green Buildings and Changing Climatic Conditions” during the Indoor Air 2011 Conference held on Jun. 5-10 in Austin, TX. (shown above)

Dr. Srebric was also promoted to full professor effective July 2011. Congratulations!

Associate Professor Moses Ling, was selected to receive the 2011 Penn State Excellence in Advising Award. The award, established by the former Undergraduate Student Government’s Academic Assembly and sponsored by each college, annually honors one full-time faculty member and one full-time professional adviser from any Penn State location who have at least two years of advising experience. Selection criteria are based on excellence in general advising, academic and career guidance, enthusiasm and assistance in decision-making, and goal setting.
Ling, who serves as the AE undergraduate program officer, believes the key to being a good adviser is to be the students’ advocate.”

The Architectural Engineering Institute (AEI) Board of Governors has elected Dr. Ali Memari to be the AEI President Elect effective Oct. 1, 2011. According to the AEI Bylaws, the term for president elect is one year before becoming the president for one year. Afterwards, the president will be the past president for a year. Dr. Memari’s term as President will start on Oct. 1, 2012.

AE Department Head, Dr. Chimay Anumba, has been named editor-in-chief of a new open access journal, Buildings. Published by MDPI publishers, based in Basle, Switzerland, Buildings is intended to be the focal point for seminal articles on all aspects of buildings, thereby bridging the gap between architecture and engineering. For details, see: http://www.mdpi.com/journal/buildings.

Dr. Anumba was also keynote speaker at the American Society of Civil Engineer’s International Conference on Computing in Civil Engineering held in Miami FL in June. His talk titled “To BIM and Beyond” discussed the past, present, and future of building information modeling (BIM).

The American Institute of Steel Construction (AISC) has renamed its annual spring and fall seminar series the Louis F. Geschwindner Seminar Series in honor of Lou Geschwindner, professor emeritus of architectural engineering. He served for nearly 35 years as a faculty member in the AE department. Because of his true love of teaching and the interaction with the AE students, he continued to teach pro-bono for several years past his retirement in 2004. For the past nine years, he has also served as AISC’s vice president of engineering and research. Many of his more than 3,000 former students are now leaders in the structural engineering and academic communities. In addition, as a lecturer for AISC throughout his career, Geschwindner has helped continue the education of more than 15,000 practicing professionals.

The first AISC Louis F. Geschwindner Seminar was given at the May 2011 NASCC: The Steel Conference held in Pittsburgh. The Louis F. Geschwindner Seminar Series will be offered semi-annually each year.

Prof. William Bahnfleth was installed as treasurer for a one-year term with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) during the organization’s annual meeting June 25-29 in Montreal, Canada.

Dr. James Freihaut served as a keynote speaker at the Engineered Systems High-Performance Buildings Conference held in Tysons Corner, VA, on Sep. 13-14, 2011. Freihaut serves as director for Technology and Operations of the $129m Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings. Located at The Navy Yard in Philadelphia, the GPIC works to improve energy efficiency and operability and reduce carbon emissions of new and existing buildings, and to stimulate private investment and quality job creation in the Greater Philadelphia region, the larger Mid-Atlantic region, and beyond. The GPIC will focus on full spectrum retrofit of existing average size commercial and multi-family residential buildings. Dr. Freihaut’s keynote focused on the GPIC Hub’s vision of energy efficient buildings, and he discussed plans to achieve that vision.”

The conference delivered practical knowledge and meaningful connection points for attendees and consisted of two tracks: technology, innovation, and design; and delivery and operations, which focused on the central theme of high performance buildings. Building professionals learned about the latest technologies and practices to deliver high performance and energy efficiency and addressed the full spectrum of mechanical and electrical buildings systems for both new construction and existing buildings.

Faculty Travel
Dr. Chimay Anumba visited Tsinghua University, China (where he is a visiting professor) in July and gave two invited lectures – one at the annual workshop of the Global Network for International Construction (GloNIC); and another at the Tsinghua International Summer School for International Construction. He also explored (with Professor Moses Ling) the possibility of a Study Abroad Program in China. This program has now been approved by the Penn State University Office of Global Programs and will be available in Summer 2012.
As America marks the ten-year anniversary of the World Trade Center terrorist attack, the construction of One World Trade Center “Freedom Tower” (computer depiction below) continues to move forward under the direction of AE alumna Lynda Tollner, ’84 (left).

Lynda was one of numerous AE alumni who was at the scene on that fateful day in 2001. She emailed the AE office that she was okay. She had a meeting on the 72nd floor of Tower One and wrote “I was about 15 minutes from getting on the elevator. I was still on the concourse level when the first plane hit.”

Lynda visited campus on Sep. 16 to provide a presentation on “Extrem Project Management” One World Trade Center. The lecture was well attended by AE faculty and graduate students and included a discussion on managing multiple large projects at the World Trade Center site with multiple adjacencies, complicated logistics, as well as stakeholders and politics.

“I never thought I’d come back to be in charge of part of the World Trade Center building, but it’s great to be on the team that’s reconstructing it.”

Lynda Tollner’s journey to Penn State started with a visit to campus during Arts Fest 1979. Her parents put her on a bus to Happy Valley to register for the civil engineering program. Once on campus, she found out about the five-year architectural engineering program and thought it sounded like a better fit, since she was really interested in working with buildings. A conversation with Lou Geschwindner, now professor emeritus of architectural engineering, confirmed her notion. When she told her parents she changed her mind about her major, her dad, a civil engineer, quipped, “Who’s paying for the fifth year?”

After graduation in 1984, Lynda accepted a position at Seelye, Stevenson, Value, and Knecht Consulting Engineers, today known as STV, in New York City as a design engineer. She was immediately fascinated by her very first project: providing design and computer modeling of a stainless steel cavitation channel (water tunnel) for the U.S. Navy.

Over the next 15 years, the Garden City, Long Island, native worked her way up from project engineer to senior engineer to project manager at architectural design firms including: RTKL Associates in Baltimore; URS/Greiner, Inc. in Hunt Valley, MD; Edwards and Kelcey, Inc. in Morristown, NJ, and New York, NY; and Ammann and Whitney Consulting Engineers, PC, in New York. She explains, “Through those years I worked on everything from hospitals to elementary schools to airports.”

In 1999, Lynda became project manager at Maitra Associates, Inc., in Bridgewater, NJ. She was responsible for various multi-discipline projects, including several projects for the Port Authority of New York and New Jersey. She says, “I attended Port Authority meetings once a week in the World Trade Center Building, and it just so happens I was there on September 11.”

Since 2002, Lynda has worked for the Port Authority of New York and New Jersey. She’s held five roles, starting as a project manager for the LaGuardia airport and working her way up to her current post, program director—One World Trade Center. She notes, “I never thought I’d come back to be in charge of part of the World Trade Center building, but it’s great to be on the team that’s reconstructing it.”

As program director, Lynda provides project executive direction for the $3.1 billion tower, which will stand 105 stories and boast 2.6 million square feet of office space. She reports to the Director of World Trade Center Construction and provides oversight to the construction manager, program management staff, design consultants, cost control staff, and schedulers. She is also responsible for all aspects of delivery of the project, ensuring it is on schedule, scope and within budget. She interfaces with program directors and the teams of other World Trade Center programs.

Being part of a team is hands-down Lynda’s favorite aspect of her current role. She smiles, “I feel like my job is less about project management and more about leading the team and spurring communication. There are a lot of stakeholders involved with this tower, and it’s a very fast-paced project. I also enjoy being the person who makes sure other people have the resources they need. Working as a team is huge for me. I just love it!”

Lynda says she is so pleased with the education she received at Penn State that has helped her get where she is today. “As a project manager, I can see how well-rounded my education was. In fact, many firms I worked for specifically recruited Penn State engineers!”

A professional engineer in three states, Lynda is also a project management professional. She will return to Happy Valley this fall to speak to a regional chapter of the Project Management Institute about her current successes and challenges overseeing construction of the Freedom Tower.

Arts Fest must have made a lasting impression on Lynda during her inaugural visit. She states, “I have been coming back every year since 1979!”

Lynda and her husband, David Loeffler, ’83 ME, reside in Mountain Lakes, NJ, with their two sons.
International Course Offerings

Dr. Thomas Boothby spent two months in Barcelona Spain at the Universidad Politecnica de Catalunya (UPC), teaching in the International Masters Program in Structural Analysis of Historical Constructions. After having an early opportunity to meet the students and to discuss their interests, his principal activity in the program was to present a series of four related seminars on the topic of his own research and interests in historic preservation and my knowledge of historic preservation activities in the U.S. These seminars were presented to the students during consecutive weeks, and supporting materials were also sent to all the participating students. The four seminars were titled: “Historical Perspectives on Graphic Statics;” “Perspectives on Empirical and Scientific Design;” “Wrought N’ Rolled is Here to Stay: Analysis Methods for Iron Bridges 1850-1900;” and “The Good, the Bad, and the Ugly: Case Studies in Historic Preservation in the USA.” Continuity of the topics and the artifacts under study was built into the seminars. Graphic statical analysis of the Union Arch was considered in the first talk and the relation between scientific and empirical design in major arch bridge projects was elaborated in the second. Similarly, the analysis and design of many of the bridges considered in the third lecture was brought forward in the second, while two of the case studies are related to structures previously presented. Dr. Boothby had ample time to explore Barcelona and the numerous examples of medieval, modernist and contemporary architecture available there.
Wrought and Rolled is Here to Stay!

Sporting the motto ‘Wrought and Rolled is Here to Stay’ on their rust-colored t-shirts, and checking off the bridges that they visited on the back of the shirts, the students in Dr. Tom Boothby’s AE 597B Historical Methods of Structural Analysis class participated in the first annual spring iron bridge tour.

The students visited ten bridges scattered throughout Pennsylvania and nearby West Virginia. The bridges dated from 1839 through the 1920’s and included a cast iron arch bridge in Brownsville, PA, a wrought iron suspension bridge from 1849 in Wheeling, WV, a double intersection Pratt truss near Curwensville, PA, a double Warren truss outside Troy, PA, a parabolic lenticular truss in Lickdale, PA, a monumental lenticular truss in Pittsburgh, PA, a quintuple Warren truss in Slate Run, PA, a Baltimore truss in Harrisburg, PA, and a multi-span K-truss in Belle Vernon, PA. The most distant point on the tour was a late lunch at The Bridge Tavern and Grill located on the Old National Road in Wheeling WV. The students subsequently gained experience in analyzing the bridges according to the principles and methods used in their original design. Fourth-year undergraduate Nicole Trujillo says of the experience, “It was an adventure: traveling throughout PA and WV in search of 20th century bridges. We visited the historic Wheeling Suspension Bridge which was part of National Road and enjoyed a lunch at the Bridge Tavern. Being able to visit the bridges made them more relevant and easier to analyze by applying indexing methods used by structural engineers in the 1900s.”

China Study Abroad

Assoc. Prof. Moses Ling and AE Department Head, Chimay Anumba along with six AE undergraduate students participated in a study abroad experience in Beijing, China, this summer. The program is built around the Tsinghua University summer program in international construction. The summer program focuses on the key industrial issues of the moment, and providing the most up-to-date views and ideas of industry theory and practice that speak to those topics. Speakers are drawn from the leading construction firms, top universities and multilateral organizations, to present on a broad and topical range of global construction industry related themes, including risk management, project financing, information and communication technology application, occupation health and safety, strategic planning, contract administration, marketing, and others. The summer study abroad program in China has been approved by the University Office of Global Programs effective summer 2012.

Before the start of the summer school, the group enjoyed a weekend in the village of Mutianyu at base of the mountains near one section of the Great Wall. During the excursion, they ventured out from the safety of the restored section of the Great Wall and experienced climbing the “wild wall” with menacing thick brush and tall grass. At points, the wall has crumbled to just a narrow path with steep drops on both sides.
Center for Sustainability

Center for Sustainability Launches Minor, Develops Site & Courses
Fall 2011 kicks off at a fast pace for the Penn State Center for Sustainability (CfS). As the drafting of the university’s first strategic plan for sustainability is finalized, the CfS continues to focus on delivering transformational educational experiences to Penn State students and the public.

Minor in Sustainability Leadership
Penn State’s Faculty Senate has approved a new intercollege minor in Sustainability Leadership, open to students in any major. The new 18-credit program is scheduled to launch in Fall 2011. Advising will be handled by the CfS. Learn more about the new minor at http://www.cfs.psu.edu/programs/minor-in-sustainability-leadership.html

9-Acre Sustainability Experience Center
Development continues on the nine-acre CfS site at University Park. The Morningstar Solar Home has been converted into a clean energy research lab and will be up and running in Spring 2012. A new 70-foot wind turbine (above) has been installed next to the Morningstar, as part of Penn State’s Wind for Schools program. A new solar carport, donated by GM has also been installed. This carport will be used to power a Chevrolet Volt, also to be donated by GM this fall. View a map of the site at http://www.cfs.psu.edu/Mission/learning-grounds.html

Energy Centers Update
The Northern Mid-Atlantic Solar Education and Resource Center (NMASERC) continues to expand offerings—providing solar photovoltaic, solar thermal, and solar instructor courses in face-to-face, online, and hybrid face-to-face/online formats. Since the center’s inception in summer 2010, trainings have been presented to 70 community college and technical school instructors from Pennsylvania, West Virginia, Delaware, and New Jersey. View up-to-date news about the NMASERC at http://zohacenter.org

Pilot courses are being offered this fall, with additional courses in development, to fulfill the mission of the Grid Smart Training and Application Resource (GridSTAR) Center. A series of video interviews with national thought leaders speaking to smart grid topics is underway to enrich the student experience in these courses. To further support the center’s mission, a Smart Grid demonstration home is under development at the GPIC Hub in Philadelphia. Learn more about the GridSTAR Center at http://www.cfs.psu.edu/programs/grid-star-center.html

National Energy Leadership Corps. (NELC)
The NELC has received a commitment of $500,000 from the BNY Mellon foundation to support the continued development of the program’s curriculum. The NELC team continues to fulfill its research mission into best practices for residential energy audits, as a Department of Energy Building America Research Team. Learn more about the NELC at http://www.cfs.psu.edu/programs/nelc.html
SPRING 2011 MILESTONES

**AE Options Conference**: 70 AE students ranging from second to fourth years attended a four-hour networking event where students interacted with industry professionals from all four options. The AE Options Conference aimed to educate students on the unique career paths that can result from each option offered by Penn State’s Architectural Engineering program.

**AE Yearbook**: Thanks to the efforts of the newly established SSAE Yearbook Committee, 2011 graduates now have a 124-page yearbook featuring student bios, class trips, and unforgettable fifth-year highlights.

**SSAE Family Weekend**: This event provided AE families with the opportunity to meet professors, explore AE research facilities, and tour Beaver Stadium.

**SSAE Final Cup Ceremony**: And the winner is ... MOSES HOUSE. After a year-long competition, Moses House reigned supreme with 654 house points earned by attending meetings and participating in various mentoring events.

FALL 2011 GOALS

**AE Tours**: The AE tours initiative is going digital. Prospective students, alumni, and industry professionals will be able to virtually tour AE classrooms and research facilities on the SSAE website.

**Know Your Professor**: In an effort to expose students to research developments within the department and breach the gap between students and their instructors, SSAE will provide an open networking session comprised of department leaders and professors of all options.

**SSAE Blog**: The SSAE blog will feature AE updates, videos, and open forums. In response to feedback from AE IPAC members, a video answering the recurring question “What is the difference between architecture and architectural engineering?” is being produced.

**Footsteps Initiative**: SSAE will now extend itself as a learning resource by organizing exam review sessions conducted by fellow SSAE members.

**Feedback?** Contact newly elected president, Brittany Notor at president@psuae.org.

**Interested in becoming an alumni mentor?** Email MVP, Devon Saunders at mentoringvp@psuae.org.

**Connections Kick-off**
The 2nd annual Connections Kick-off was held on Sep. 16 in Foundry Park. The event provided an opportunity for all AE students, faculty and alumni to good enjoy food, music, and activities. In addition, it was an excellent forum for student-to-student mentoring (1st - 5th years); and student-to-alumni mentoring (4th years and alumni).

After two highly successful canning trips and individual fundraising, SSAE was able to send two of its members to dance in THON. The organization raised over $7,300 in the fight against pediatric cancer.

SSAE’s 2010 and 2011 AMP (Administrative VP, Mentoring VP, and President) at the National AEI Conference in Oakland, CA. Congratulations to Josh Wentz for being nominated this year’s national AEI student president.

The Student Society of Architectural Engineers is a growing social network that connects students, faculty, and professionals. SSAE has completed one of its most accomplished years to date thanks to the support of over 150 student members, Penn State’s architectural engineering department, the Alumni Society of Architectural Engineers, and corporate sponsors.
ALUMNI UPDATE —Let us hear from you!
Have a message you want to share: fill out this form, or complete the Alumni Update Form on-line at the AE website at www.engr.psu.edu/ae/contact/Alumni-Update-Form.asp.