AE Students Study in Rome

page 14
A Message from

The Architectural Engineering Department Head—Dr. Chimay Anumba

Dear Alumni and Friends,

The 2009/2010 academic year promises to be a busy but exciting one, particularly as we will commence activities marking the Centennial of the AE Program during this year.

First, I would like to welcome our new faculty member, Dr. Stephen Treado, to the Department. He joins us from the White House Council on Environmental Quality and NIST, and has expertise in control systems and sustainable building energy systems.

In line with our Strategic Plan, new teaching and research initiatives focus on promoting an integrated systems approach to the delivery of high performance buildings. Teaching initiatives this year include the Integrated BIM-based studio (which involved students from each AE option as well as Architecture and Landscape Architecture), an integrated 3rd-year project (to enhance understanding of the interfaces between various building sub-systems), and a BIM-based Senior Thesis (thanks to funding from the Thornton Tomasetti Foundation and The Leonard Center for the Enhancement of Engineering Education).

With regard to research, a Center of Excellence for High Performance Building Systems (CHiPBS) is being established with support from Ben Franklin Technology Partners. CHiPBS will bring together key stakeholders in the building industry to promote an integrated systems approach and will develop new design tools, models, systems, and working methods. The Department is also home to the new DOE-funded Mid-Atlantic Clean Energy Application Center (page 13), which will promote clean energy and CHP technologies. AE faculty have also been busy over the summer writing proposals for ‘stimulus’ funding from a variety of agencies – these will enhance our research profile and expose our students to cutting-edge developments.

Progress continues to be made in the planning for the AE Centennial in 2010. The reconstituted Penn State AE Society is planning the main reunion weekend and details of this and other events are available on the Department website.

Thank you for your continued support as we start a new academic year.

With best regards,
Dr. Chimay J. Anumba
Professor and Department Head

A Letter to All AE Alums

My name is Michael Harrison and I am from the Class of 1985. For the last 5 years, I have had the privilege of sitting on the Architectural Engineering Department’s Industrial and Professional Advisory Council (IPAC). IPAC has opened my eyes to the many great strides the AE Department has taken in the 24 years since I graduated, as well as the increasing pressure on the Department as it strives to maintain its position as the preeminent AE program in the World (albeit with fewer and fewer resources, financial, faculty and otherwise). I am writing to all AE Alums with the hope that I can accomplish 3 primary goals: (1) to encourage each of you to reconnect with the Department and to use the upcoming Centennial Anniversary celebration as the catalyst to do so, (2) to open your eyes to the challenges the department faces by providing background information the department and what some of the specific needs and challenges are, and (3) to raise awareness about the financial challenges facing the department and to ask that you become part of the solution.

This past spring the IPAC members received a preview of the plans for a major departmental celebration of the AE Department’s Centennial Anniversary. Several events will be held over the next 12 months to mark and celebrate the AE Centennial. This remarkable milestone, which recognizes Penn State as the oldest documented AE program in the country, is an accomplishment in which each and every AE alumnus and current student should take great pride. We were excited to learn that Louis Geschwindner and Gifford Albright, who together represent the encyclopedic history of the department, have graciously offered to lead the preparations for this series of Centennial Celebrations.

The Centennial for the Department presents a great opportunity for each of us to reconnect with our classmates, the Department, and Penn State in general. Until I was asked to join IPAC, I kept up with the AE department primarily by looking forward to and reading this newsletter. Through my participation in IPAC I have been surprised on several occasions to learn of great new innovations and developments within the department that do not always make it into the newsletter, but have also learned much about increasing challenges and pressures on the department, the faculty, as well as the bureaucracy that affects and retards the Department’s ability to: (1) maintain the quality product that the Department has delivered for decades (ten of them now...), as well as (2) the Department’s ability to attract and retain the highest quality faculty and staff members.

As someone who has worked in the private sector my entire career, I have been surprised to learn about some of the new additions and enhancements to the Department, as well as the administrative challenges that Chimay, our faculty and the Department face on a daily, monthly and yearly basis. To this end, and so you don’t have to listen to me ramble, I thought it might be helpful to provide a “Did You Know...?” and “What Can I Do...?” section for this edition of the AE Newsletter, so here it goes...

“Did you know?”

There are approximately 3,100 AE Alums today who receive this newsletter. I was surprised to learn that when you receive those mailings from Penn State (The University, The College of Engineering, New Beginnings Fund, etc....) asking you to donate money to the University (about 10 times a year if you’re like me), unless you specifically note that your donation should go to the Architectural Engineering Department it either goes to the University “General Fund” or the College of Engineering “General Fund” or the “New Beginnings Fund”, NOT the AE Department, OUR AE Department!!!
A Letter to All AE Alums

In the last 5 years gifts and donations from Alums and other sources have declined steadily from $33,000 in 2004 to just under $20,000 in 2008. Using the 5 year average of $24,800, this represents an average of $8.00/year per Alum that receives this newsletter…. In reality, if you deduct the top 50 donations per year the average donation per alum is significantly less than $8...

The AE Department now has just over 100 students per class and the AE Department “student to faculty” ratio is the highest of any department in the College of Engineering! At 21.5:1 the AE Department is by far the highest ratio in the College of Engineering. The entire College of Engineering average is 15.2:1. By comparison, the ME department is 9.0:1, Electrical Engineering is 7.9:1 and the Civil Engineering Department is 18.8:1. When I graduated in 1985 there were 90 in my class and, frankly, I was shocked when I learned that the class size had grown by more than 10 (and 3rd and 4th year classes are at 105 and 107). Obviously, this puts tremendous pressure on the faculty (vis-à-vis a higher faculty to student ratio) and, without additional faculty and other resources, cannot help but begin to dilute the “end product” Penn State is putting on the street after 5 years.

Adding new faculty positions is closely tied to a department’s ability to attract research dollars and/or private donations. It takes a $2-$3 million endowment to fully fund a new faculty position. Unfortunately, Architectural Engineering is not a “high research dollar” department. We don’t attract corporate research sponsorships like ME, EE and other engineering departments so the way these types of positions will get funded will be through private gifts and donations from alumni, corporate sponsors (i.e. manufacturers, contractors and consulting firms). That said, clearly “sustainability” and “green innovation” present new, and in my opinion, significant opportunities for the AE Department both in terms of access to research dollars, as well as sorely needed positive public relations which can lead to corporate sponsorships and donations.

The AE Department is in the process of establishing “The Center for High Performance Building Systems.” Every one of us can and should support this new cornerstone of the Department with our time, talent and/or our money. Clearly, “sustainability”, “green design”, “Environmental Sensitivity” and “Reducing our Carbon Footprint” are concepts that have moved well past the “fad” stage and into mainstream thinking for most people and Corporate America as well. The entire IPAC group felt that The Center for High Performance Building Systems can and should become the rallying cry for the department and our alumni base. This Center will be used to better prepare the Penn State students of tomorrow to work for the AE Alumni of today, AND it can and should become a great example of why Penn State’s AE Program is the definitive world leader in building systems education and research.

Clearly the AE Department continues to be, and has been, a leader in Architectural Engineering education, and Chimay and the Faculty are breaking new ground with the Center for High Performance Building Systems. As a member of IPAC for the last 5 years it has become increasingly clear to me that, unless our Alumni base gets more involved both from a time commitment and financial commitment perspective, there is a distinct possibility that Penn State’s AE Department could slip in the national rankings and the increased pressure to do more with less faculty will certainly dilute the quality of the education AE students are receiving. As you can surmise on your own, this will directly affect the quality of the employees that we will be hiring in the future. So hopefully, you are now asking yourself...

“What Can I Do?”

Please earmark your gifts and donations to go specifically to the “Architectural Engineering Department.” I know this is a challenging time to talk about giving money to the AE Department, but please make sure the donations you are making go to the AE Department. I know this may not be possible for those that have or want to get Football season tickets, but for the rest of us, please make sure that when you give, it comes to the department that served us so well and that is training our future employees and partners. Also, for those that have not given in the past, please consider a donation of your time and a small amount of money every year – consider giving up that 2nd Starbucks Latte once a week and instead make a $100 donation to the department every year (remember as a group we are only averaging $8/year per alum!!).

Get involved with the Department. Come back to campus and give a guest lecture, teach a 2-3 day mini-class or get involved in other committees like IPAC, the Senior Thesis Jury, or the AE Career Fair. If we put some time in to help a professor with a class, it eases the load for them and provides the students with “real world” perspective to their academics. It doesn't solve the high student-faculty ratio problem, but it helps and more importantly it shows the faculty that we understand the problem, appreciate their commitment and we want to help. In turn, we help maintain the competitive advantage our graduates have always had in the past as we move into the future.

Let’s help Chimay and the Department find a way to fund a new faculty position and establish The Center for High Performance Building Systems as the premier A&E research program in the world! Given the economy and other financial pressures, it is clear that the College of Engineering is not in a position to provide the money needed for either of these key initiatives. The readers of this newsletter are leaders within their companies and within their communities. Let’s provide the Department with the benefit of our private sector experience and our relationships with manufacturers, suppliers, contractors and the engineering design community to fund a new faculty position in the AE Department. They and we will benefit immeasurably!

I know we are all proud of our department and the unique “AE” degree that we all carry. I do believe we are at a critical juncture for the department as it embarks on its 2nd hundred years and ask that each of you consider giving in one way or another - your time, your talent and your financial support. I am happy to answer any questions you may have and can best be reached at michael.harrison@hines.com or feel free to contact our new (relatively speaking) Department Head Dr. Chimay Anumba on (814) 865-6394. We are both happy to help with answers, especially if you are calling to ask “Where do I send my check?”
70’s

Charles DeLisio, AIA, '77 coordinates marketing, design, and construction administration at STUDIO DeLisio Architecture in Pittsburgh, PA. “We are currently planning a second summer trip to the People’s Republic of China, where construction is booming! During a 2004 trip I looked out our hotel window in Changsha and counted nine cranes at different construction sites.....at some sites work continued long after sun-set!”

James Sipple, ’77 is responsible for project management and business development with Vanderwell Engineers in Boston, MA.

Richard L. Applebaum, ’78 structural engineer, president of Klepper Hahn & Hyatt in East Syracuse, NY. He has been specializing in structural design and facade/building envelope restoration of historic buildings.

John V. Heilmann, Jr., ’79 is director of construction with Casto in Columbus, OH. He is responsible for commercial construction and tenant coordination for the company from pre-development estimates to final punch list. He received Certified Design, Development and Construction Professional from the International Council of Shopping Centers, the lead professional organization for the retail industry. He was promoted to director of construction in September 2008. Now living in central Ohio going on 30 years and will never be a Buckeye fan. Sure nice to beat them here finally.

80’s

Gregory D. Andersen, ’86 currently oversees facilities management operation delivering routine building maintenance and custodial services at Penn State University Park campus. Operation comprises nearly 500 FTE of all varieties of trade disciplines, servicing approximately 12 million GSF of multi-use building space.

Peter Loedding, ’83 joined the Los Angeles office of Bovis Lend Lease in the summer of 2007.

Victor A. Cenname, P.E., ’85 is responsible for designing, building, and deploying wireless communications solutions with Eyak Technology, LLC in Dulles, VA.

Lynda C. Tollner, ’84 is program director for the Port Authority of New York and New Jersey. Working for the Port Authority, she is project executive for One World Trade Center (Freedom Tower), New York City, the most challenging project of my career. The WTC site is an extremely complicated place to work with many, many stakeholders for endless hours of coordination fun. She and husband Dave Loeffler (ME ’83) have 2 boys, Jack 14 and Sam 10. Bill Long, ’84 AE and I are trying to put together a 25 year reunion for late summer or fall. Send your contact info to LTollner@aol.com.

Evan L. Hoover, P.E., ’86 is a chief estimator with Michael Baker Jr., Inc. in Moon Township, PA. He is in charge of Baker’s construction management department’s estimating, scheduling and consulting activities. The company’s markets of focus include aviation, defense, environmental, facilities, geospatial information technologies, homeland security, municipal and civil, pipelines and utilities, transportation, and water. Services span the complete life cycle of infrastructure and managed asset projects, including planning, design, construction services, asset management, and asset renewal.

With more than 4,400 employees in over 50 offices across the United States and internationally, Baker is consistently ranked by Engineering News Record among the top 10 percent of the 500 largest U.S. design firms.

Tom Minnick, ’88 is director of engineering at Schnackel Engineers, Inc. in New York, NY. His duties include overseeing MEP staff for regional NYC office of 40+ year old multi-office firm based in Omaha, NE. Also director of lighting design for affiliated lighting consulting division, light plan design, based in NYC. He and his wife Patricia have two boys, 5-year old Jonathan and 1-year Matthew.

Tom Martin, ’89 is a special operations leader with TP Mechanical in Columbus, OH. He assists in all areas of the organization from a corporate assistance standpoint, including: operations, training, development of company culture, sales, marketing and strategic growth. He’s also looking forward to the 20th reunion!

Kenneth E Pliska P.E., ’85 principal with WB Engineering in New York, NY. Responsibilities include business development and project oversight.

Alan D. Smith, P.E. ’82 is a plumbing & fire protection dept. manager/associate with IBC Engineering, PC in Rochester, NY. He is responsible for plumbing and fire protection design for healthcare, K-12 schools, higher education, state and commercial projects. Provide QC/QC review of documents. Provide training and mentoring to 11 staff in 2 offices.

90’s

Eric Search ’90 is an engineer and associate principal with Bliss & Nyitray, Inc. in West Palm Beach, FL. He is responsible for management of West Palm Beach office.

Wayne Magaw, ’90 “Thanks for the article on Prof. Brown in the Spring ’09 newsletter. I often thought of him during my 13 years in the industry after graduation, whether it was sketching a detail of how something would be built, to researching codes for design-build projects. It’s good to know he’s still around!”

Shayna Bramley, ’90 & Jonathan Bramley (LEEDs exchange student ’96-’97) are currently living in sunny West Palm Beach, FL and have welcomed their third child, a baby girl, Amanda Ireland Bramley, born Sep. 17, 2008. Her older brothers William (3) and Sean (2) are teaching her the Penn State cheers to get her ready for this coming football season!

Shayna is a full time educator for SESCO Lighting and travels throughout the country for speaking engagements on lighting, LEED, and energy related topics. Jonathan is the director of engineering for the city of West Palm Beach.

Tim Campion, ’97 construction services, special inspector, building code official with Barry Isett & Associates in Allentown, PA. Responsible for inspecting concrete, masonry, and steel components of buildings during construction to verify compliance with the construction documents and all pertinent codes; residential/commercial building code inspector.

Karl Peterman, ‘94 and son David (10) visited the AE Department during a recent trip to Happy Valley. Karl is now doing noise control as well as vibration isolation and seismic restraint for HVAC systems with Vibro-Acoustics and still living in the Toronto area with wife Amy, son David and daughter Laura (13).

Judy Liu, ’95 and Jason Weiss, ’95 both on the civil engineering faculty at Purdue University are proud parents of a new baby boy, Ben born on April 2. He weighed 8 lbs. 7 oz. and was 20.5 in. He wanted to come after April Fools Day but in time to see the NIT champions get crowned!

In addition, Jason was named in the April 2009 Issue of Concrete International, (ACI’s monthly) as a recipient of the “Watson Medal for Materials Research,” for his co-authorship of a paper in March 2007 ACI Materials Journal.
Caryn McCormick Johnson, ’99 is a project manager with Barton Malow in Fuquay Varina, NC.

00’s

Elizabeth Baker (DeSilver), ’00 is a senior project engineer, PE, LEED AP with TA Engineering, Inc. in Catonsville, MD. Current projects include LEED commissioning, cogeneration commissioning, design review, energy conservation management projects, utility infrastructure upgrades as well as general electrical design work. My husband, Brian, and I have enjoyed a terrific year full of blessings. We welcomed Brooke Elizabeth Baker into the world on Feb. 9, 2008. We also completed the LEED certification process for our home achieving the Silver Level. My husband is an energy efficient, green homebuilder. To see photos of the home, visit www.studio26homes.com. I worked on the electrical and lighting design for the home. I assist my husband from this aspect on his other projects while also working full time for TA Engineering, Inc. It has been an exciting and busy year!

Sandy (Jelen) Young, ’00 received her PE in spring 2005. She is a project executive with William V. Walsh Construction in Rockville, MD, currently in charge of the design/build addition and renovation of the Elephant House at the Smithsonian’s National Zoo in Washington, DC. The two phased project will add over 3 acres of living space for the elephants at the Zoo, including a walking trail. Final completion is April 2011. Sandy and husband, Tom, welcomed their fourth son, Luke, on October 10, 2008. He joins brothers Joe (6); Sam (4); and Peter (2).

Shannon (Schafer) Bentz, ’01 and husband Steve Bentz ’99 welcomed the birth of their first child, Ruby Quinlyn Bentz on Nov. 7, 2008. Steve was also recently promoted to the senior professional position at Facility Engineering Associates in Fairfax, VA.

Carlos Gomes, ’04 & ’07g (left) and wife Kristin welcomed a baby boy, Tiago Andrew Hoyne, born on April 27. He was 21 3/4 in. and weighed 9 lbs 3 oz. He joins big sister Sofia who turned 2 years old on March 25.

John Graef, ’05 is a project engineer II with Jacobs in San Diego, CA.

Michelle Hohl, ’03g is a mechanical engineer with Spotts, Stevens & McCoy in Reading, PA.

Debra Schroeder, ’05 is working with HDR Inc. in Alexandria, VA.

Jason A. Greer, ’08 is a graduate electrical engineer with SmithGroup in Washington, DC.

Brian Smith, ’06 is a lighting designer with Horton Lees Brogden Lighting Design in NYC.

Jonathan Walker, ’09 is an electrical engineer with Clark Nexsen in Norfolk, VA.

Heather Sustersic, ’07 BA/MAE and husband John (right) welcomed a new daughter Rachel Rose born April 8th, 2009, weighing in at 7 lb 9.5 oz and measuring 21 inches long. She joins big sister Charlotte who will be 3 in August.

Jonathan Belinski, ’04 structural designer and building code official with Spotts Stevens McCoy in Reading, PA. He and wife, Melissa, welcomed a new daughter, Stella Jane, (left) on March 16, 2009. She weighed 9 lbs. 2 oz., and was 21 inches long.

CONGRATULATIONS TO ALL OF THE PROUD NEW AE PARENTS!!

Alumni Honors

Russell L. Heiken, P.E., ’81, executive vice president and director of healthcare services at X-nth in Maitland, FL, was the recipient of the ASHRAE Refrigeration Comfort Cooling Award for Project Excellence (innovation/new technologies). Wade Conlan ’95 and Robert Symmes also collaborated on the award winning design.

The project involved the design of an HVAC system at Carlisle Regional Medical Center (CRMC), a 225,000 square-foot green site, 159 licensed bed hospital owned and operated by Health Management Associates (HMA). The facility is supported by a stand-alone central utility plant that houses the three 450-ton water-cooled chillers, two 300-BHP hot-water boilers, and a 400-ton flat plate and frame heat exchanger (PFHX) to provide water side economizer for the facility. The chilled water is arranged in primary-secondary loops. The heat exchanger is piped with the ability to pre-cool the secondary side chilled water coming back to the chillers or to cool the entire load and turn off chillers. The controls were set up to utilize the most available hours of free cooling, and actually alleviates any chiller operation with chilled water temperatures as high as 50°F as long as space humidity is acceptable.

Three AE alums have been named to the 2009 “Top 40 Under 40” list published by Consulting-Specifying Engineer magazine in May 2009. CSE created the “40 Under 40” list to honor and acknowledge some of the best and brightest minds in the building industry. The winners have created innovative systems to solve difficult engineering problems; won a variety of awards; and have risen quickly to the top in their fields.

In addition, each person also gives their time to local charitable organizations and groups, mentor budding young engineers, and work to enhance the industry by thinking “outside the box.”

Congratulations to our AE alums who have been named to this prestigious list for 2009.

Michael Schwarz, P.E., LEED AP, ’01 Associate, HVAC engineer, KlingStubbins, Philadelphia, PA.

Paul Switenki, P.E., ’94 Associate, mechanical engineer, Arup, San Francisco, CA.

Ari Tinkoff, P.E., ’95 Vice president, X-nth, Maitland, FL.
ALUMNI PROFILE - A Road Less Traveled

Occasionally, we like to report a story of an AE alumni who has chosen a non-traditional or unusual career path. Jennifer Drilling, '03g is one such alum.

During her time at Penn State, Jennifer found that Architectural Engineering encompassed her technical, artistic, and environmental interests. She participated on the Penn State Women's Gymnastics Team for the first three years of college, while still maintaining an excellent track record in the rigorous AE major. While trying to decide between a structural and lighting option after her junior year, Jennifer interned at HLW International, an architectural design and engineering firm. After deciding she enjoyed the systems coordination process at the firm, the following year she obtained an internship at Turner Construction, working on the Information, Sciences, and Technology building project at Penn State. Her diversified background and talent landed Jennifer a position on the Collegian photography staff in the spring of her 4th year. During the summer of her senior year, in addition to working for Turner and the Collegian, Jennifer helped her Architectural Engineering professors to produce a semester class on Electrical Contracting and Technology. She graduated in 1993 with an integrated BAE/MAE degree.

Jennifer has since put her construction management, electrical, and lighting design knowledge to work and turned her passion, athletic ability, and artistic flair into a thriving business venture. Together with a partner, she started Dreamtime Live in 2006, in Carlsbad, CA, and operates as vice president. Dreamtime Live is an entertainment company that creates fully immersive, interactive, cirque style performances for special events of all sizes, from intimate and exclusive to global festivals. Their exotic acts include wing dancers (shown above), silk rope aerialists, fire performers, water shows, stilt walkers, and acrobats, just to name a few! The shows are tailor crafted to the theme of the clients event, providing guests with unforgettable immersion and interactive entertainment. More information on this unique company can be found online at: (www.dreamtimelive.com)

All of the AE faculty and staff who remember Jennifer as not only an outstanding student and Penn State gymnast, but an artistic, creative and truly nice individual, join in wishing her all the best in her interesting career path. We look forward to hearing more about you!

AE Alumnus Gives Back

Robert McNamara, ’63 retired president, McNamara/Salvia, Inc. in Boston, MA will be traveling to Penn State AE several times over the fall 2009 semester to provide seminars and guest lectures to some of our AE classes including the AE Senior Thesis class. During his visits, he also plans to consult with individual senior thesis structural students, as well as the Integrated Project Delivery/Building Information Modeling (IPD/BIM) teams. He plans to maintain a similar role in spring 2010 semester, with perhaps a greater role on individual meetings with structural students. McNamara will bring more than 44 years of experience in the building industry to the classroom, providing a wealth of knowledge for our students.

McNamara was a 1995 recipient of the Outstanding Engineering Alumni Award, which is the highest honor bestowed on an alumni by the College of Engineering. He has maintained a strong relationship with the AE Department over the years serving as a regular member of the annual Senior Thesis Jury. He also endowed the Robert J. McNamara Scholarship in the Department of Architectural Engineering for deserving undergraduate students. We look forward to his participation in the AE classrooms.

Thank you Bob!
**Turner Construction Company & Penn State—A Great Partnership**

Through the leadership of passionate Penn State alumni working for Turner, including Karen Sweeney ’80, vice president, diversity, Mike Kuntz, vice president and regional general manager, Ed McNeill ’79, senior vice president, operations and Bill Brennan, executive vice president, a number of programs have been established to help recruit new hires from the university and further strengthen Turner’s business relationship with Penn State and the AE program. The Turner-Penn State programs now in place include:

1. **Penn State Thesis Program**
   Turner has partnered with the AE Department to assist our students in the development of their senior theses by studying about and working on Turner projects. This partnership between Turner and Penn State is now in its third year. Last year, students working on Turner projects won 6 of the 9 awards at the thesis ceremony, including best overall, four 1st place awards and a 2nd place award. This year, Turner has 17 students being sponsored on Turner projects in Pennsylvania, New York, New Jersey, Maryland and Virginia. This program affords Turner an opportunity to get to know these students outside of the formal recruiting process. In addition, the Turner “mentors” maintain personal involvement with their assigned students.

2. **Campus Portal Program: Student Access to Turner University**
   The Campus Portal Program was established by Turner to provide Penn State students access to the Turner University course offerings. The students are introduced to Turner and their training programs and the program also allows Turner to develop closer relationships with students and with the Engineering Department Professors and Deans. The Campus Portal Program has expanded since being first introduced at Penn State and is now being offered to a number of universities across the country.

3. **Architectural Engineering Board Participation**
   Turner’s Karen Sweeney is a founding board member of the Penn State Architectural Engineering Society Alumni Board (PSAES). Karen, along with Mike Bruskin ’87, purchasing manager for Turner’s Connecticut office, are serve as members of the Board of Directors of the PSAES, which provides a connection between the alumni, faculty and current students. Karen has also served as a Penn State Engineering Society (PSES) Board Member since 2004 and chairperson of the marketing and communication committee. She also serves as a member and the 2010 vice chairperson of the AE Industrial and Professional Advisory Council (IPAC), which is the industry advisory body for the AE Department, and provides input on ongoing curriculum improvements.

4. **Second Mile**
   All Penn State football fans know Jerry Sandusky as the founder of “Linebacker U.” Jerry was the defensive coordinator for Penn State until his retirement in 1999. At that time, he turned his attention to assisting children who needed help and direction in their lives through his foundation, The Second Mile. For the past two years, Turner has been a Gold sponsor of the charity and Turner’s Mike Kuntz now serves on the Board of Directors of The Second Mile.

5. **PACE: Partnership for Achieving Construction Excellence**
   Turner is an active participant in the Partnership for Achieving Construction Excellence (PACE), a collaborative organization of industry innovators and AE students and faculty who work together to achieve excellence in the construction industry. PACE events and activities provide a unique environment in which industry professionals and students can discuss key issues and strategies to advance the industry. PACE research and events raise awareness of emerging trends and technologies, as well as providing a forum for the exchange of ideas and continuous education opportunities.

6. **Robert Hettema Leadership Award**
   During his 27 years with Turner, Robert Hettema, a retired vice president, played a key role in many significant projects. When Bob retired from Turner, he accepted a position as an Associate Professor in the AE Department. In 1973, Bob initiated the Construction Management Option.

   Each year since 2005, Turner has sponsored four Hettema Leadership Awards, which recognize students’ outstanding efforts in the area of leadership and professional development in Construction Management.

   In addition, Turner will soon name one of their retirees to hold the first Practitioner Instructor (PI) Named Professorship in the AE Department. More about this important announcement will be in the next AE newsletter.

   We would like to thank Turner Construction for all of the programs they have developed that have helped to form a very strong connection to Penn State and the AE Department.

**2009 Hettema Leadership Award Winners** (L-R) Ralph Kreider, Natalie Bryner, Keith Mondock (Turner), Matthew Smiddy and Brittany Muth.
Department News

AE SENIOR THESIS ACTIVITIES
The 2009 Senior Awards and Recognition Banquet was held on May 1 at the Nittany Lion Inn. The Department of Architectural Engineering was very pleased to present over $110,000 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 2009-10 Scholarships and Awards are listed below.

2009-2010 AE SCHOLARSHIPS / SPONSORS
Gladys M. Baird Memorial Scholarship
James W. Bathgate Memorial Scholarship in Architectural Engineering and Chemical Engineering
Beaver Scholarship in Heavy Construction
Laraine and Jack Beiter Excellence Endowment Scholarship in Architectural Engineering
Borda & Fernsler Family Scholarship
BR + A Consulting Engineers (sponsored by Eugene Bard)
Cagley & Associates Scholarships
Clark Construction Group Scholarship
AE Class of 1975 Scholarship
DeSimone Consulting Engineers Scholarship
Ellerbe Becket Scholarship
EwingCole Scholarship
Herbert Duffield LLC Scholarship
Prof. John Everetts and Prof. Melvin Isenberg Memorial Scholarships (sponsored by Cannon Design)
Louis and Judy Geschwindner Endowed Scholarship
Illumination Engineering Society - Philadelphia Section Scholarship
The Lighting Practice 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)
Melvin H. Peters Endowed Scholarship
Pittsburgh Builders Exchange Scholarships
James M. Pohlen Memorial Scholarship
Prof. John Potter Memorial Scholarship
Franklin Ruth Memorial Scholarship
Ryan Biggs Assoc. Scholarship
Simpson Gumpertz & Heger Scholarship
SmithGroup Scholarship
H.O. Smith Memorial Trustee Scholarship
Scientific Solutions Scholarship
Prof. C. Herbert Wheeler Scholarship sponsored by Joseph & Marlene Borda
Sharron E. Williams Memorial Scholarship
Michael J. and Virginia A. Youchak Scholarship

2009-2010 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)
AltieriSeborWieber, LLC 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 Electronic Portfolio (CPEP)
Forrester Construction Ethics Award
Hettema Leadership Awards (sponsored by Turner Construction)
Holbert Apple Associates - Outstanding Performance in Structures in the 4th Year AE Class
Howard and Callie Kingsbury Award for Excellence in Architectural Acoustics
Gershon Meckler Memorial Award - Innovative Building Mechanical System Design (sponsored by Dr. and Mrs. Barry Weinstein)
Charles A. Merica Award - Clark Construction Group
Allan Naugle Memorial Award (sponsored by Fredrick Fernsler)
PACE Group - Outstanding Performance in CM - 4th year AE Class
PACE Group - Outstanding Record of Study in CM - 5th year Class
Peerless Lighting Award - Outstanding Record of Study in Illumination - 5th year Class
PSPE/PEPP - Professional Practice Award
Thornton Tomasetti - Outstanding Record of Study in Structures - 5th year Class

AE SENIORS GARNER TOP HONORS
A panel of 35 industry professionals met in the afternoon to judge the top eight fifth-year thesis presentations. The following students presented their projects for the jury.

Gregory Smithmyer completed his thesis project on the West Virginia University Alumni Center, home of the WVU Alumni Association in Morgantown, WV. He explored the implementation of a ground source heat pump system with a parallel dedicated outdoor air system. Optimization of the ground loop construction was included as a construction breadth as well as an electrical breadth on the impacts of the new mechanical system. His future plans include a summer internship with H.E. Lenz Company and returning in the fall to complete requirements for his MAE degree.

Rachel Chicchi focused her thesis project on a structural redesign of the IAC/InterActiveCorp Headquarters, which is a uniquely sculptural office building designed by Frank Gehry. This building, located in New York, NY, is a reinforced concrete two-way flat-plate building with sloped columns and a ‘transfer slab.’ The year-long thesis project culminated in a post-tension redesign and shearwall optimization, in order to reduce the weight of the building and resist long-term deflections effectively.

James N. Gawthrop Jr. focused upon a five-building complex total-1.5 million square feet with both office and laboratory occupancies as the basis for his thesis project. His redesign analysis involved an investigation of alternate air-side systems for the office space, consideration of a centralized utility plant, and a feasibility study of a combined heat and power approach for the facility. After James graduates in May he will be in State College for the summer preparing the 2009 Penn State Solar Decathlon House for the competition in October of this year.

Kanis Glaewketgarn’s thesis project focused on the Spertus, Institute of Jewish Studies located in Chicago, IL. It involves the complete lighting redesign of four spaces including: building facade, lobby atrium, Feinberg Theater, and open office. He defined economical benefits from utilizing energy efficient light sources and energy efficient transformers. He analyzed and redesigned acoustical performance of Feinberg Theater as well as conducted coordination and design integration studies in this space. His future plans include a full-time position as a lighting designer at Schuler Shook, Chicago, IL.
Christine M. Clowes completed her senior thesis project on the National Intrepid Center of Excellence, which is a two-story, 72,000-SF medical facility currently being constructed in Bethesda, MD. She focused on the complete lighting redesign of four main spaces in the building, which included an analysis of daylighting strategies. The electrical focus consisted of a voltage drop study and the use of the SKM software program. Upon graduation, Christine will join SmithGroup in Washington, DC to pursue a career in electrical engineering and lighting design.

Lindsay A. Hagemann focused her senior thesis project on the Mid-Atlantic Data Center 5 located in Ashburn, VA, a 360,000-SF and LEED Gold data center which was temporarily suspended due to the current economic climate. As such, the main research topic involved evaluating the economy’s impact on the construction industry and the project. A project execution plan was developed for successfully completing the project without a suspension. Additional analyses performed include evaluating and creating an alternative concrete construction process, implementing a thin-film photovoltaic system to power the building lighting load, and utilizing water-side economizers to reduce the energy consumption of the mechanical cooling system. Future plans include a summer internship with McDonough Bolyard Peck, Inc. in Columbia, MD, and returning to Penn State AE to complete her integrated B.A.E./M.A.E. degree.

Michael W. Hopper completed his senior thesis project on the 625,000-SF John Jay College Expansion Project, which is currently under construction in Manhattan. His design focused on simplifying the structural systems used to transfer gravity loads over the Amtrak tracks beneath the 14-story tower to allow traditional construction methods. Michael’s future plans include research at Penn State to complete his integrated B.A.E./M.S. degree by fall 2009.

Ralph Gary Kreider’s senior thesis was focused on Kimberton Elementary School. It was a 103,000-SF, 650 student, 30 classroom elementary school that was to be built between July 2008 – Jan 2010. The project was cancelled however due to public concern about the contaminated groundwater under the site. His senior thesis focused on what to do now that the project was cancelled. He researched the steps necessary to relocated the building to a need site which include evaluating the new site, choosing a new building location and site layout, and increasing the foundation size. Additionally he thought it would be a good time to add sustainability and value engineering to the project. He found that daylighting would not be feasible with the current layout of the building and a high abuse drywall panel is a better solution than the CMU walls which were originally designed for the building. Additionally he compared the several methods of BIM estimating to traditional methods and found that it produce accurate results and saved time. Currently the school district has no plans to build the new elementary school in the district. This semester Ralph plans to return to Penn State in pursuit of a Ph.D. focused on building information modeling.

2009 - SENIOR THESIS AWARD WINNERS

Acuity Brands/Lithonia Lighting - 1st Place Lighting/Electrical Thesis in Memory of Mickey Woods - Christine Clowes
Balfour Beatty - 2nd Place CM Senior Thesis - Ralph Kreider
Barton Associates - 2nd Place Mechanical Thesis - Greg Smithmyer
Barton Malow Company - 1st Place CM Senior Thesis - Lindsay Hagemann
Cagley & Associates - 1st Place Structural Thesis - Rachel Chicc
Department News

Student Marshal

P. Daniel Weiger, the top 5th year student was named the class student marshal to represent AE in the spring commencement ceremony. He graduated from the Integrated Bachelor’s and Master’s of Architectural Engineering Degree Program. He also earned a minor in Architecture and International Studies. Dan chose Dr. John Messner to serve as faculty marshal (photo above).

During his time at Penn State, Dan was a member of the Tau Beta Pi and Phi Alpha Epsilon honor societies. He was the recipient of the top 4th Year Architectural Engineering Student award; the top 4th year Construction Management Student Award; the Construction Management Association of America Scholarship; the Associated Builders and Contractors National Scholarship; the Kimmel and Associates Scholarship; the Beaver Heavy Construction Scholarship and the Clark Construction Group Scholarship, as well as being named to the Dean’s List every semester since entering the AE program!

He was also a member of the Student Partnership for Achieving Construction Excellence (S:PACE) and the Student Society of Architectural Engineers (SSAE-AEI).

Following graduation, he began work for Bechtel Corporation as a Project Control Engineer.

In addition to being named Student Marshal, he was awarded a Life Membership in the Penn State Alumni Association.

Commencement

Commencement for the College of Engineering was held on May 15, 2008. Architectural Engineering conferred 73 B.A.E., 29 M.A.E., five M.S., two M.Eng. and one Ph.D. degrees. An evening reception was held in the Bryce Jordan Center for the AE graduates, their guests, and AE faculty and staff.

Baby News

AE Department Head Chimay Anumba and wife Claire welcomed the birth of a new daughter, Chioma Adaeze born on June 16. She was 7 lbs., 8 oz. and 19 in. long. She joins big sisters Kenechi (8), and Nmachi (12). Congratulations!

2009 PACE Research Seminar

The Partnership for Achieving Construction Excellence (PACE) Research Seminar was held on April 20-22, 2009 at the Penn Stater Conference Center on campus. Held each spring, the research seminar combines presentations of research results and timely industry speakers for a diverse audience of building industry professionals and university students.

The theme for this year was Investing in People. Topics for discussion focused on the following areas: Energy and the Economy, Investing in Teams, BIM-strategies, and BIM-Tech Case Studies. During each session, there were presentations from both the university and industry communities.

A Plenary address on “Energy Leadership and Innovation” was provided by Larry Eisenberg, executive director for facilities planning and development for the Los Angeles Community College District. Additional industry speakers included:

Steve Maruszewski, deputy associate vice president of the Penn State Office of the Physical Plant, spoke on “Pushing LEED Forward.”

Brent Darnell, of Brent Darnell International, a leading authority on emotional intelligence and a pioneer in its use in the construction industry, spoke on “Tightening up the Ship—Quality and Productivity.”

Joe Romano, of Langan Engineering, spoke on “3D Laser Scanning.”

The next PACE Round Table Meeting will be held on Oct. 14-15, 2009. Registration details are available online at: www.engr.psu.edu/pace/index.asp

DBIA Boot Camp

The Design-Build Institute of America (DBIA) Boot Camp was held Aug. 3 - 7, 2009 at the Atherton Hotel in State College. The boot camp was a one-week intensive course that included: the fundamentals of project delivery, the principles of design-build project delivery, and design-build contract and risk management, concluding with an examination. The university-based boot camp allowed participants to not only learn and network in a classroom environment, but also take interactive tours of local design-build projects.

AE International Food Day

The AE Department celebrated its diversity with an International Food Day luncheon on May 8. Faculty, staff and graduate students enjoyed a wide variety of specialty dishes from each participant’s home country. An excellent smorgasbord and a good time was enjoyed by all!
Awards/Honors

Three AE faculty members have been honored as recipients of the following 2009 Penn State Engineering Society Awards. The awards were presented at a ceremony held on campus on April 17, 2009. Congratulations to all of the recipients for the well deserved recognition for all that they do for the AE Department! Shown above L-R are Dean David Wormley, AE professors Kevin Parfitt, Ted Dannerth, Moses Ling and Chimay Anumba, AE department head.

Associate professor Moses Ling, was the recipient of the PSES Outstanding Advising Award which recognizes and rewards outstanding advisers of Engineering undergraduate and graduate students. These advising awards are established in recognition of the importance of advising in the total Engineering education program.

Associate professor M. Kevin Parfitt, was the recipient of the PSES Premier Teaching Award which recognizes and rewards an individual whose contributions to Engineering education or the art of teaching are of exceptional quality.

Associate professor and practitioner instructor Theodore H. Dannerth was the recipient of the PSES Distinguished Service Award which recognizes and rewards a current or former faculty member, an alumnus, or friend who has donated time, expertise, and energies in the form of outstanding and special service to a department, unit, or to the College.

Professor William Bahnfleth was installed as vice-president of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) at its 2009 Annual Conference held in June 20-24.

As a society vice president, Bahnfleth is a member of the board of directors and the executive committee and serves as vice chair of Technology Council.

Bahnfleth said, “ASHRAE’s greatest opportunity, and challenge, is to be a global leader in sustainability within its mission to advance the arts and sciences of HVAC&R. To accomplish that mission will require both continued excellence in the development and dissemination of technology and effective partnership with organizations worldwide that share our ideals.”

Bahnfleth, an ASHRAE fellow, also serves as advisor of the ASHRAE student branch at Penn State and as chair of the CLIMA 2010 ASHRAE Advisory Ad Hoc Committee and the Building Safety and Security Position Document Committee. He formerly served on the board as director-at-large.

He is also one of 14 new appointees to the ASHRAE Distinguished Lecturer Program. Distinguished lecturers provide ASHRAE chapters with noted authorities who speak on relevant topics that impact the HVAC&R industry. Bahnfleth will speak on UV air disinfection, chilled water system design, and cool thermal energy storage. He joins professor emeritus Stanley Mumma as one of the 75 speakers on the distinguished lecturer roster. Mumma was appointed in 2002 and has been a popular speaker on Dedicated Outside Air Systems (DOAS).

Dr. Chimay Anumba has been appointed a visiting professor at Loughborough University (UK) and will visit once a year to collaborate on research.

New AE Faculty and Staff Members

Dr. Stephen Treado joined the AE faculty as associate professor in August 2009. He will be part of the mechanical systems group and pursue his research interests in sustainable building energy systems.

Prior to joining Penn State, Treado was associate coordinator - Energy Security and Climate Change, White House Council on Environmental Quality, Executive Office of the President, in Washington, DC.

He was also formerly a mechanical engineer, acting group leader, and project leader in the Mechanical Systems and Controls; Lighting; and Thermal Analysis Groups at the National Institute of Standards and Technology (NIST) in Gaithersburg, MD. Dr. Treado received his Ph.D. from the University of Maryland in 1987.

Kimberly Lyle joined the AE staff as our new undergraduate program staff assistant. She will also be working with the finances of the Engineering Copy Center. Kim has worked in the AE office as a temporary employee since January, and is already a valuable contributor to our team.

Welcome to Penn State!

AE CAREER FAIR

The next AE Career Fair will be held on Sep. 22 at the Bryce Jordan Center.

Check out our Web site for further details: http://www.engr.psu.edu/ae/indexPrefair09.asp
Faculty Travel

Professor Bill Bahnfleth has been well-traveled during the past academic year. In November 2008, he visited Kuwait City to present a short course on chilled water system design in conjunction with the International Conference on Energy Research and Development organized by Kuwait University. He also had the opportunity as a member of an ASHRAE delegation that included 2008-2009 Society President William Harrison, to meet with directors of the Kuwait Foundation for the Advancement of Science and the Kuwait Institute for Scientific Research (whose director holds and M.S. in Civil Engineering from Penn State) and to visit the ASHRAE Student Branch at Kuwait University.

In mid-May, he travelled first to the United Arab Emirates to do research for a design guide for district cooling systems he is co-authoring and to make presentations to ASHRAE chapter meetings in Dubai and Abu Dhabi. A week later found him in Busan, South Korea, for the Roomvent 2009 conference where he presented a paper co-authored with M.S. student Dylan McWhirter and spoke at a workshop on ultraviolet air disinfection systems organized by Professor Shinsuke Kato of the University of Tokyo. Past sabbatical visitor, Professor Samuel Kim of Dong Eui University, Busan, was also a panelist in the workshop. Former AE Ph.D. student and post doc, Jae-Weon Jeong, currently professor at Sejong University in Seoul, was one of the conference organizers.

In July, Bahnfleth participated at the Building Simulation 2009 Conference in Glasgow, Scotland. Glasgow Cathedral is pictured at right.

New Graduate Course

Professor Tom Boothby taught an experimental version of a new graduate-level course in spring 2009. In the course, titled ‘Historical Methods of Structural Analysis,’ students explored structural analysis methods from Ancient Greece and Rome through the late nineteenth century. Half of the class was devoted to an examination of pre-Enlightenment methods of analysis, including the use of proportioning, machine analogies, and anthropomorphic methods of design, as well as the early intellectual framework for understanding the action of structures. Attention was also paid to examples of buildings from these periods and to the investigation of the design methods used in their construction. In the second half of the semester, we focused on 19th century graphical and analytical methods for the design of bridge and building trusses, including graphical methods of analysis for beams, trusses, and statically indeterminate frames, and indexing methods for the analysis of bridge trusses. The class concluded with a day-long field trip to look at 19th century bridge types: a lenticular truss, a Baltimore truss, a multiple intersection Warren truss and a Whipple truss (illustrated). The initial offering of the course was taken by a diverse group of students including undergraduate and graduate students in AE, Civil Engineering, and Architecture.

Modern building in traditional style at top of Mt. Undae, Dongbaek Park, Busan, South Korea.

DOE Clean Energy Application Center

The U.S. Department of Energy has selected the Penn State AE Department to lead its Mid-Atlantic Clean Energy Application Center (CEAC). The four year program (with potential four year follow-on terms) comes with significant financial resources (~$2.5m) provided by the Department of Energy and positions Penn State to catalyze the implementation of clean energy and combined heat and power technologies in facility designs. The program will also promote awareness within governmental policy and decision making organizations of the sustainable features – environmental and energy security – of utilizing such technologies in building site development applications.

The overall objectives of the center are:

♦ To inform end users and potential end users, and stakeholders of the benefits, economics and resources available for the utilization of combined heat and power (CHP), district energy technologies, renewable energy sources and waste heat recovery;

♦ To assist organizations in implementation of clean energy technologies;

♦ To promote clean energy technologies (solar thermal, solar photovoltaic, hydro, wind, renewable biomass) as an effective solution to state policy makers and regulators and to work with this audience to reduce barriers to widespread adoption of clean energy.

The major objective of the Mid-Atlantic CEAC partners is to provide support technology transfer for utilization of combined heat and power, district energy, waste heat recovery, and other clean energy systems. Technical assistance will be provided, including the provision and coordination of on-site assessments for organization considering utilization of clean energy systems. Project development assistance will be provided for evaluating the economic and environmental impact of systems based on those technologies.

The Mid-Atlantic Region consists of the states of Pennsylvania, West Virginia, Maryland, New Jersey, Delaware, Virginia, the District of Columbia and federal facilities in those areas. Penn State AE partners in the CEAC endeavor are Energy Partners Corporation (Herndon, Virginia), Integrated CHP Systems Corp (Princeton, NJ), Platinum Energy Inc. (Annendale, VA). The Mid-Atlantic CEAC is associated with and will coordinate its activities with the seven other regional centers covering the entire United States.

Penn State AE was selected to lead the Mid-Atlantic CEAC because of their range of expertise in combined heat and power and clean energy technologies as well as its extensive networking and communication system with architectural engineering design firms throughout the Mid-Atlantic and other regions. The AE connection to the engineering design community of the building systems, energy end use sector is viewed as "critical to provide clean energy implementation assistance to architects, engineers, manufacturers and/or owners as required." In addition to providing technical assistance to the building sector industry, the CEAC is expected to gather feedback from design firms and developers as to specific technical and economic barriers inhibiting the implementation of clean energy and combined heat and power technologies to a broader range of building sites and types, particularly when sustainability is a key design goal of a new or renovated facility.

Although Penn State AE will lead the Mid-Atlantic CEAC effort from a building system integrated engineering approach, faculty and staff expertise in a number of other College of Engineering Departments (Mechanical, Chemical, Electrical) and Penn State Colleges (Earth and Mineral Sciences, Smeal College of Business, College of Agricultural Sciences) are involved. The center director is Jim Freihaut, associate professor in architectural engineering, and many other Penn State faculty and staff will play key roles. For example, AE professor William Bahnfleth will lead the technical effort in district heating cooling. Professor Dom Santavicca of the Department of Mechanical and Nuclear Engineering has the lead technical role in integrated gasification and gas turbine CHP systems. Dr. Daniel Ciolkosz of the Department of Agricultural Engineering is to take the lead in renewable biomass based systems. Paul Hallacher from the Penn State Strategic Initiatives Office will assist with planning and communications.

As part of the Center’s activities, Penn State will be holding a number of Clean Energy Application workshops, seminars and short courses for design firms, developers and potential applicants interested in exploring the possibility of utilizing on-site power production with waste heat recovery in projects. Announcements on these events will be forthcoming in the AE newsletter and in separate University flyers.

The Mid-Atlantic CEAC, as part of Penn State’s College of Engineering commitment to the city of Philadelphia and the State of Pennsylvania will also conduct activities from the Philadelphia Industrial Development Corporations building in the 1,200 acre, former naval shipyard site in Philadelphia. This site is emerging as a regional center of high performance buildings research, development, and demonstration.
Mr. AE Title
The third annual Mr. AE Contest was held on Wednesday, Feb. 25, 2009 at Heritage Hall on campus. Six contestants (above L-R Ralph Kreider, Zach Heilman, Shane Goodman, Tyler Meek, Jake Copley, and Dave Sivin) were judged in three events: Corporate Wear - a formal introduction of themselves, accompanied by a female escort; talent/skit/song; and a question-and-answer session by the AE faculty judges.

Tyler Meek (AE 4th year) was named "Mr. AE" following a stellar performance of his "Penn State AE" song set to the tune of the "Y.M.C.A.".

Sponsored by the Student Society of the Partnership for Achieving Construction Excellence (S:PACE), proceeds of admission and student "votes" were donated to the scholarship fund in memory of Sharron Williams, beloved AE student record’s secretary from 1973-2007.

The goal is to create an endowed scholarship in the AE department so that each year, the interest income from this fund would produce an annual scholarship in perpetuity (approximately $1,000) to be given to deserving AE undergraduate students in Sharron's memory. After nearly 34 years of dedicated service to the faculty and students in the AE department, we think this is a wonderful way to honor her legacy.

If you would like to donate to the Sharron Williams Memorial Scholarship Fund, checks can be made payable to "Penn State" and noted on the comment area as the Sharron Williams Memorial Scholarship. Checks can be sent to the attention of Nancy Smith in the AE Main office at 104 Engineering Unit A, University Park, PA 16802.

AE Student Receives LEED Accreditation
AE 5th year student, Dan Hesington recently received his Leadership in Energy and Environmental Design (LEED) AP accreditation through the U.S. Green Building Council. Dan is a structural intern with Mulkey Engineers & Consultants in Raleigh, NC. In his third summer interning for the firm, he worked on a variety of structural projects, gaining tangible experience in both the design and consulting aspects of engineering. "It feels great to pass both my fundamentals of engineering and LEED AP exam before graduating from college," says Hesington. This is a testament to the quality of the AE program.

LEED accreditation is a designation that demonstrates an individual’s thorough understanding of green building principles and the LEED Green Building Rating System. The building rating system encourages and accelerates the global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria.

Summer in Rome (cover)
Twenty-six AE students traveled to Rome for a study abroad experience in May and June 2009. Course work included architecture studio where they designed boutique hotels for Rome, architectural analysis which in addition to lectures included several field trips to Paestum, Pompeii, Florence, Venice and other architecturally significant places in Italy, masonry structures and cartography. Perhaps the most significant learning however was adapting to a different culture and way of life.

AE Professors Bob Holland and Tom Boothby have both participated as instructors in the Summer in Rome Program.

In addition to the wonderful cultural experience, AE students participating in the Summer in Rome Program are able to obtain a minor in Architecture.

Students working hard in studio.

AE students recreate the Pantheon in a Sand Sculpture.
A Look to the Future: 2010

AE Centennial Tag
AE Professor Bob Holland conducted a student contest to design the official AE centennial tag to be used in promotional and printed materials throughout the AE centennial celebration in 2010. The winning entry (shown left) was selected by the AE Centennial Committee and was created by Jim Rodgers (AE 2nd year).

AE Alumni Centennial Survey
We would like to actively involve all alumni, friends, students, faculty, and staff in planning and participating in the centennial celebrations. In particular, we are currently looking for feedback from our alumni for activities being considered for the All-Year Class Reunion to be held on campus on July 2-4, 2010.

An online survey has been prepared, to help us determine which events you would be most interested in participating in. Please go to the link below to participate in the survey. Thank you!

www.engr.psu.edu/ae/Centennial-Survey.asp

If you do not have access to the Internet, please contact Nancy Smith in the AE main office and she can send you a paper copy of the survey.

In addition to the AE Department Web site, AE alumni can keep in touch with friends and colleagues on both Facebook (www.facebook.com) and LinkedIn (www.linkedin.com). Alumni groups have been established on both social networking sites. Search for "Penn State Architectural Engineering Alumni" on both Facebook and LinkedIn and join fellow alums that have gone virtual. We will be posting information about the upcoming AE centennial celebration on both sites!

We look forward to hearing from you!

6th International Conference on Innovation in Architecture, Engineering & Construction (AEC)

The AE Department will host the 6th International Conference on Innovation in Architecture, Engineering and Construction (AEC) from June 9-11, 2010, as part of the activities to mark 100 years of architectural engineering at Penn State. Organized in collaboration with the Centre for Innovative and Collaborative Engineering at Loughborough University, UK, the conference will provide an excellent international forum for celebrating innovative research and industry developments in AEC.

It is intended that Thursday, June 10, 2010, will focus on industry-related topics and issues. It will feature industry-oriented presentations and discussion panels, and industry practitioners will be particularly welcome.

The Planning Committee invites you to submit a 500-word abstract.

Key Submission and Notification Dates

♦ Abstract submissions: September 1, 2009. (500-word)
♦ Full paper submission: November 30, 2009. (All paper submissions will be peer reviewed)
♦ Paper Review Decisions: January 15, 2010
♦ Final Papers due: February 15, 2010. (Conference Proceedings to be published on CD-ROM)
♦ Early Registration Deadline: March 15, 2010.

Please visit the Web site for information on the Call for Papers: www.engr.psu.edu/ae/AEC2010/index.asp
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.

Name

Date of Degree(s)  Option

Home Address

Home Phone

Employer

Address

Office Phone

E-Mail Address

Type of Organization

Occupation and Title

Responsibilities

Additional Comments (may be published in the next newsletter if applicable)

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