Build the Future

New Student Center addition will bear the name of alumnus M.T. Geoffrey Yeh

Alumni news and features
For generations to come, CEE students will build their futures in the department’s new student center, planned as an addition to Newmark Civil Engineering Laboratory. The student center addition will provide critically needed classroom space, as well as many other features that will enhance the educational experience of the department’s students.

We need you to support the campaign to fund this new campus landmark, an investment in education for the civil and environmental engineering professionals of the future.

Numerous naming opportunities exist to recognize contributions to this project.

To make arrangements for a gift or a gift pledge, please contact:
John E. Kelley, Director of Development and Alumni Relations
1102 Newmark Civil Engineering Laboratory MC-250, 205 North Mathews Avenue, Urbana, Illinois 61801
(217) 333-5120, jekelley@uiuc.edu
How can you reach
the most influential professionals,
the most talented faculty, and
the brightest students
in civil and environmental engineering today?

Advertise in the CEE magazine.

The best-informed engineering professionals of today and tomorrow—about 7,000 strong—view these pages twice a year to stay connected with the nation’s top department for civil and environmental engineering.

Beginning with the Summer 2008 issue, the CEE magazine will accept advertisements from companies and organizations related to the civil and environmental engineering industry. For rates and guidelines, visit CEE on the web at http://cee.uiuc.edu or contact Danielle Gray, (217) 333-7501, dmgray2@uiuc.edu. Space will be limited, so inquire today.
Stay connected
with a free online community just for
University of Illinois
College of Engineering
alumni, students, faculty and staff

Get started
1. To request your alumni ID number, email:alwaysillinois@engineering.uiuc.edu
2. Use the alumni ID number to register at www.alwaysillinois.org
Together, we can **Build the Future**

BY ROBERT H. DODDS JR., PROFESSOR AND HEAD, (MS 75, PhD 78)
M.T. GEOFFREY YEH ENDOWED CHAIR OF CIVIL ENGINEERING

Thanks to the generous financial support of our alumni, friends of the department, and the University administration, we have realized great progress over the past six months toward construction of the CEE Student Center addition to Newmark Laboratory. To be located on the northeast corner of Newmark Lab, this critically needed facility will provide 22,500 square feet of new classroom space, student design rooms, student meeting rooms, office space for CEE student organizations, a 150-seat auditorium/classroom, and a large atrium to create a beautiful new entrance to the CEE department.

Plans to construct the CEE Student Center have been under consideration for more than 10 years, starting with the dedicated work of former CEE heads Bill Hall, Neil Hawkins and David Daniel. Teng and Associates of Chicago graciously created preliminary design sketches, which helped to build excitement for the project. The cover of this issue of the CEE magazine features one of the Teng sketches looking northwest toward the new addition and entrance to CEE.

A key development occurred this past August when M.T. Geoffrey Yeh (BS 53) pledged $4 million to move the project forward, a gift announced in this issue’s cover story. Geoffrey made his $4 million gift with the stipulation that it be met by $3 million in gifts and pledges from other alumni, supporters and friends of the department. This $7 million, together with $1 million of funding from the College of Engineering and $1 million from CEE department

Continued on page 6

Yeh Student Center
in Newmark Civil Engineering Laboratory

**Features**
- 22,500 square feet, three stories
- 7-8 classrooms
- 150-seat auditorium
- Atrium lobby
- Student conference rooms
- Student design labs

The northeast corner of Newmark Lab, the site of the addition.
funds, constitutes the estimated $9 million cost for design and construction. The expected completion date is January 2010.

The addition will be named the M.T. Geoffrey Yeh Student Center in Newmark Civil Engineering Laboratory in honor of Geoffrey’s gift and to recognize his enduring support of higher education, specifically in CEE at the University of Illinois. In the 1990s, through generous contributions, Geoffrey created both an Endowed Faculty Chair and Endowed Graduate Fellowships.

This issue of the CEE magazine also announces the first of several major gift commitments in support of our goal to raise $3 million in additional alumni gifts. Gifts and pledges have been received from Joan and Richard Newmark (Nathan Newmark’s son); Audrey and Jerry Olson (BS 56); and the W.E. O’Neil Family of Companies based in Chicago, along with their CEO Richard Erickson (BS 69). Together, these gifts total $1.1 million. Additional gifts and pledges are in progress and will be announced in the summer issue of the CEE magazine. The Student Center’s classrooms, meeting and design rooms, auditorium, and other space in the facility will be named in recognition of alumni, faculty and friends of the department who make gifts to support its construction.

With the current financing plan, the Board of Trustees will be asked this February to retain an architect-engineer for preparation of final design and construction documents. Expected to require about one year, the design and approvals process provides us with time to raise the remainder of the $3 million needed to meet Geoffrey Yeh’s challenge.

CEE at Illinois offers the finest education and research experiences available anywhere. The prestige of our profession grows daily in recognition of the critical role civil and environmental engineers will play in the future of our society. Young people today have strong and growing interest in CEE careers—careers that they can clearly see will improve the lives of people everywhere. The M.T. Geoffrey Yeh Student Center in Newmark Civil Engineering Laboratory will be the inspiring place where these young people start their professional journeys, build lifelong friendships, develop leadership skills, and acquire knowledge for a lifetime.

Your gifts and pledges are now crucial to make the M.T. Geoffrey Yeh Student Center a reality; we ask for your support. Please contact me by email, rdodds@uiuc.edu, or by phone, (217) 333-3276; or contact John Kelley, CEE’s Director of Development and Alumni Relations, at jekelley@uiuc.edu or (217) 333-5120 to discuss your gift or pledge commitment.

Go Illini!
A challenge, an opportunity

BY JOHN L. CARRATO, P.E., S.E., (BS 79, MS 80)
PRESIDENT, CIVIL AND ENVIRONMENTAL ENGINEERING ALUMNI ASSOCIATION BOARD OF DIRECTORS

These are exciting times at the University of Illinois at Urbana-Champaign, and I’m not talking about the resurgence of the football team. One thing we have always been able to count on is the high ranking of the Civil and Environmental Engineering department. Once again our undergraduate program in civil engineering was ranked No. 1 by U.S. News & World Report.

Additionally, not content to rest on its laurels, the CEE department led by Robert Dodds, who I believe is the most forward thinking and brightest department head in the country, has recently completed a new strategic plan. The overview in the plan states, “The Strategic Plan for the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign assesses strengths and weaknesses, and describes a framework for establishing priorities, allocating resources, and making changes that will strengthen the department. Our department is one of the most distinguished civil and environmental engineering departments in the world. We aspire to remain so in an increasingly competitive academic environment at national and international levels.”

The strategic plan is an extremely well-conceived and written document that addresses what the department needs to accomplish to stay at the forefront of education and research. It is not my intent to discuss the strategic plan, but to focus on one of the weaknesses identified in the plan and what we as alumni can do to help.

The Newmark and Hydrosystems laboratories were never intended to include classrooms. The classrooms that were supposed to be built adjacent to Newmark Lab were not funded or constructed, so makeshift classrooms were created in labs and classrooms in other buildings utilized. As reported to the Board of Directors by Professor Dodds, there were 144 CEE classes taught in 19 buildings across campus last year, some as far away as the Armory. Essentially, the students in our department have no place to call home.

That leads me to the truly exciting news. As announced in this newsletter, the department received a $4 million naming gift from M. T. Geoffrey Yeh to build the Yeh Student Center at the northeast corner of Newmark Lab. The student center, with classrooms, design rooms, meeting rooms and an auditorium, will provide a place where students can congregate and study together. It will also provide offices for student organizations. This will lead to the development of a true civil and environmental engineering student community. Thank you, Dr. Yeh!

This is truly wonderful news. However, the story doesn’t end there. The department still needs the help of the rest of us alumni. Mr. Yeh’s gift has a challenge component attached to it. He has pledged to donate $4 million if the department is able to raise $3 million in private donations from alumni and friends of the department.

This kind of challenge is nothing new to the department. With less and less financial support coming from the State of Illinois each year, the department has been forced to raise money from private sources. Robert Dodds and John Kelley, Director of Development and Alumni Relations, work tirelessly to accomplish this, and I know that many of you have been very generous in your giving to the department over the years.

This is a chance for us to really make a difference. Construction of the Yeh Student Center will help the department in many ways. Not only will it become the focal point of student life, it will help enhance the department’s ability to attract the best students and faculty in the nation. Please do whatever you can to meet Mr. Yeh’s challenge and make the Yeh Student Center a reality. I am sure the department will welcome any and all sizes of pledges.

Finally, I would like to thank all of you who have put in nominations for the 2008 Board of Directors positions. We have never had a larger or more qualified group of candidates. As always, you can reach me at (312) 565-0450 or jcarrato@benesch.com.

Essentially, the students in our department have no place to call home.
Alumnus M.T. Geoffrey Yeh (BS 53) has pledged $4 million in support of the department’s planned building addition, which will be named the M.T. Geoffrey Yeh Student Center in Newmark Civil Engineering Laboratory. Yeh is chairman of Hsin Chong Construction Ltd. in Hong Kong and a long-time supporter of the department. In 2001, he funded the M.T. Geoffrey Yeh Chair in Civil Engineering, currently held by Professor and Head Robert H. Dodds Jr.

As a student in the 1950s, Yeh transferred to the University of Illinois from Park College in Parkville, Mo. He earned his bachelor’s degree in civil engineering with an emphasis on structures in 1953. He then went on to earn his master’s degree at Harvard University in 1954, later returning to Hong Kong to join the firm his father founded in 1939. He also holds an honorary doctorate from St. John’s University in New York City.

Yeh’s gift is contingent on the department raising the remainder of the funds necessary to proceed with the project. Yeh recently discussed his gift to name the Yeh Student Center.

What motivated you to make this gift?

Over the years, I have come to realize how much I benefited from the generosity of the many generations of donors who have given to the University of Illinois. I also have been fortunate enough to be able to build up a successful construction and property services group, Hsin Chong Group, in Hong Kong. My civil engineering training from the University has been an invaluable asset in my journey not only as a businessman but also as a citizen of Hong Kong. I feel it is time I express my gratitude to the University with deeds.

Why do you believe the Student Center is a worthy cause?

When Professor Robert H. Dodds Jr., Head of the Department of Civil and Environmental Engineering, approached me about the Student Center, I immediately jumped on that opportunity. As we all know, the world is getting more complex each day, and classroom learning is but one aspect of a college education. We must provide opportunities for students outside the classroom setting to mingle and learn from their colleagues, professors and practicing engineers, as well as venues for small group learning and teamwork activities. The Student Center fulfills all these purposes. It not only provides the much-needed space, but also will come alive as it becomes the hub of academic and social activities.

What will it mean to you to have the Student Center named after you?

I hope that having the Student Center named after me would remind my children, grandchildren and future generations of the role the University of Illinois played in our family’s history, as well as my belief in the importance of education. I hope that they will continue to give back to education institutes, particularly to their Alma Maters.

How did your education here in CEE enhance your career and your life?

My education at the University of Illinois, particularly in the Department of Civil Engineering (class of 1953), laid the foundation for my career as a contractor in Hong Kong. Without that foundation, I would not have been able to succeed as a contractor or in any of my other businesses. The engineering training at the University of Illinois helped me develop an analytical mind, a sense of discipline, and a thirst for lifelong learning. Frankly, I was not too focused as a high school student!

What would you say to other potential donors to motivate them to give to this
campaign? Our engineering programs, at both the undergraduate and graduate levels, are ranked among the top five in America. In fact, our undergraduate and graduate Civil Engineering programs are ranked No. 1 and 2, respectively, in the 2008 America’s Best Colleges edition of U.S. News and World Report (published in August 2007)! Here is your chance to enable our world-class civil engineering programs to continue their leadership position and produce the next generation of great engineers, thinkers and leaders. You can help make this happen.

Is there anything else you would like to add? We all would like our future generations to have a fulfilling life, a better life than ours, and a peaceful yet exciting life. The best way to help them achieve it, in my opinion, is via education. Education provides our next generations with the essential tools to enable them to find their passion, to understand their own strengths and areas for improvement, to embrace challenges, to be a contributing member of the society, and a wonderful opportunity to develop lifelong friendships with the people they meet.

Why we support a new space for students in Newmark Lab

Richard Newmark is the son of the late Nathan M. Newmark, professor and head of the University of Illinois Department of Civil Engineering from 1956-1973 and the namesake of Newmark Civil Engineering Laboratory. He and his wife, Joan Friedman Newmark, have given $400,000 to name a classroom in the Yeh Student Center.

Richard Newmark attended Harvard University and the University of California at Berkeley. After a career as a scientist with 3M, he retired in 2001 and now holds an emeritus position at the company. Joan Friedman Newmark holds a bachelor’s degree in chemistry from Queens College and a Ph.D. in chemistry from the University of California at Berkeley. She is a chemist for 3M.

The couple live in Woodbury, Minn. They have two children, David and Merel, and six grandchildren.

Build the Future

To make your gift to the Yeh Student Center building fund, please contact:

John Kelley
Director of Development
(217) 333-5120
jkelley@uiuc.edu

or Robert H. Dodds Jr.
Professor and Head
(217) 333-3276
rdodds@uiuc.edu

“My father ... was a strong proponent of providing funds and facilities for students.”

My reasons for giving to the Newmark Lab Student Center addition campaign are to show support for the Department of Civil and Environmental Engineering after the support that the department provided my father during his 50 years at the University of Illinois.

My father was admitted to the graduate program in Civil Engineering in 1930 and, despite the Depression, offered a faculty position in 1934. He came from a very poor family; I know he had to borrow money from a relative to buy shoes so that he could go to Rutgers for his undergraduate education. Consequently, he was always a strong proponent of providing funds and facilities for students, especially for immigrants and first-generation Americans.

I live in Minnesota just 22 miles from the bridge that collapsed on August 1 last year and must personally deal with the increased traffic congestion. I am also very active in global climate issues for the Audubon Society and note the impact of the increased intensity of hurricanes, wind storms, wildfires, and localized rainstorms on cities and the environment.

As state and federal support for education declines in this country, it is more important than ever to provide additional funds from the private sector. Civil engineering is clearly crucial to the construction of safe bridges and structures that can withstand natural disasters.

Richard Newmark attended Harvard University and the University of California at Berkeley. After a career as a scientist with 3M, he retired in 2001 and now holds an emeritus position at the company.

Joan Friedman Newmark holds a bachelor’s degree in chemistry from Queens College and a Ph.D. in chemistry from the University of California at Berkeley. She is a chemist for 3M.

The couple live in Woodbury, Minn. They have two children, David and Merel, and six grandchildren.
One of the first pledges for the Student Center was that of Gerald R. Olson (BS 56) and his wife, Audrey, who have pledged $300,000. Gratitude to the University of Illinois and a conviction that the department is “going in the right direction” prompted their gift, the Olsons say.

During his time at Illinois, Olson studied geotechnical engineering under Professor Don U. Deere, and attended lectures by Karl Terzaghi, often called the father of soil mechanics.

“Those lectures and Dr. Deere aroused my interest in geotechnical engineering and contributed to my going into that area of expertise,” he says.

Terzaghi tried to impress upon students the importance of spending time in the field looking at a project location and studying the geology and terrain, rather than just looking at isolated data that comes in from the field, Olson says.

“Illinois teaches both the theoretical and practical together. I’m convinced they’re going in the right direction,” he says.

After graduating from Illinois, Olson began his career with Chicago Bridge and Iron. After a year he went back to school and earned his master’s degree in geotechnical engineering at Iowa State University of Science and Technology in Ames, Iowa. His early career also included a position at the U.S. Army Corps of Engineers’ regional lab in Chicago and six years as a geotechnical project engineer for Soil Testing Services in the Chicago area. When Soil Testing Services collaborated with an Iowa engineering company to found a new geotechnical consulting firm, Olson became a part owner and was chosen to lead it. He held that position with the firm that later became the employee-owned Terracon until his retirement in 1999. Terracon became one of the largest geotechnical engineering firms in the country. Olson also served on the Board of Directors of the first company to provide insurance exclusively to geotechnical engineering firms, Terra Insurance Company, a risk retention group.

During his time at Illinois, Olson met Audrey, then a student in the Chicago area. After the couple’s daughters, Gayle and Jill, were both in school, she attended and graduated from Mount Mercy College in Cedar Rapids, Iowa where she studied social work and sociology. She worked as Director of Volunteer Services at hospitals in Cedar Rapids and Kansas City before deciding to stay home to travel with her husband on some of his many business trips.

The Olsons live in Tonto Verde, Ariz. Since retirement they have increased their world traveling, venturing to destinations from the North Pole to Antarctica. During a trip to Antarctica they walked among 250,000 penguins. On another trip, they traveled on a Russian icebreaker to the North Pole.

“We got off the ship and they planted a pole in the ice,” Audrey says. “All the passengers held hands and danced around the world.”

Last summer they celebrated their 50th wedding anniversary by taking the whole family, including two daughters, their sons-in-law, and five grandchildren, to southern Africa.

The Olsons are longtime supporters of the department and sponsor a graduate fellowship for geotechnical students. This support, as well as their pledge to help fund the Student Center addition, resulted from gratitude for the University’s contribution to their lives.

“We felt very thankful for all that we’ve received through our lifetime, and we felt that Illinois contributed to that,” Audrey says. “We wanted to give something back for all we were blessed to receive.”
O’Neil companies, foundation, CEO pledge support

“Support the number one civil engineering school. We need facilities that equal the teaching prowess of this university.”

A nearly 60-year relationship with the W.E. O’Neil Family of Companies based in Chicago has resulted in gift pledges in support of the Student Center addition from the company, the O’Neil Foundation, and a personal pledge by O’Neil CEO Richard J. Erickson (BS 69). The gifts, totaling $400,000 will be acknowledged with the naming of a classroom in the addition, the W.E. O’Neil Family of Companies Classroom.

Since the early 1950s, when department alumnus James A. Heuer (BS 50), became W.E. O’Neil Construction Companies’ first Illinois hire, the company has continued a strong connection to the department, Erickson says. Heuer, who became a vice president at O’Neil, served on the Civil Engineering Alumni Association Board of Directors for many years until his death in 1984.

“Jim was a terrific mentor and great engineer,” Erickson says. “He really influenced me and many of the personnel at our company. He encouraged me and others to maintain our relationship with the University. He is a great example of Illinois loyalty.”

The company has followed his example with continued support of the department, including a W.E. O’Neil faculty scholar award and a W.E. O’Neil student scholarship. With its support of the Student Center fund, the company pays tribute to the numerous Illinois civil engineering alumni who have contributed to the company’s success over the years, Erickson says.

The gift from the O’Neil Foundation is made in honor of Arthur F. O’Neil, son of company founder William E. O’Neil. Arthur O’Neil worked for the company from 1935 until his death in 1999. His legacy has been a longstanding commitment to educational philanthropy, Erickson says.

“It’s in our corporate culture to support education at all levels,” he says.

Erickson himself is an active supporter of the U of I, having served on the College of Engineering Advisory Board and the Civil and Environmental Engineering Alumni Association (CEEAA) Board of Directors. While on the CEEAA Board he developed a Civil Engineering Mentoring program with alumni, students and faculty, served as president of the board in 1998, and continues to speak with faculty and students about the construction industry. In 2005, he received the Distinguished Alumnus Award. A football letterman during Illinois’ 1965, 1966 and 1967 seasons, Erickson majored in structures and minored in construction management. Erickson says. Fond memories of that influence inspire his commitment to the department and his gift in support of the Student Center Addition.

Newmark is a fine testing lab, but its classroom space could use improvement,” Erickson says. “It’s time to make the facility appropriate with the mission of a great university. The number one school in the country deserves number one space.”
Students in CEE’s innovative Global Leaders in Construction Management program are groomed for leadership in the increasingly international construction industry

By Doug Dalsing

Traveling around the world to dream-like locations such as Paris, Tokyo, Dubai, and London sounds like a fantastic opportunity for sightseeing, sampling local cuisine, and soaking up culture. But the students and faculty involved in CEE’s Global Leaders in Construction Management program have another reason to tour these places and similar destinations around the world: to learn about the cutting edge, colossal and costly construction projects underway.

These trips, according to Associate Professor Liang Liu, play a crucial role in preparing enrolled students to be leaders of the workforce in the 21st century.

“The idea behind the program is to look into the future of our students,” Liu says. “If you look at the global competition, many of our students may be working in the Chicago, St. Louis, or Indianapolis areas today, but more and more of them will be working for international firms and projects in the future.”

A major contemporary trend within the construction and engineering world is outsourcing. No matter where or what one is building around the world, designers and architectural workers, along with raw materials and even an entire labor force, could come from the opposite end of the globe. The Global Leaders in Construction Management program aims to nurture individuals to oversee such titanic operations.

“The construction industry is now a global industry,” says Visiting Assistant Professor Carlos Arboleda. “So it’s not just that you have engineers from the U.S. doing work in the U.S.; we have suppliers from Asia, designers from Europe, laborers from Mexico. It’s a global industry, and we need to have our students [pursuing] this global idea in their education.”

Distinction, customization

Students were first admitted into the Global Leaders in Construction Management program in 2004. Since then, the graduate degree program has produced just six alumni. This number, as Professor Feniosky Peña-Mora explains, is a reflection of the program’s rigorous admittance standards and procedures and consistent with the program’s goal of nurturing the leaders of tomorrow.

“The program is very selective, because it requires a lot of attention, and it’s very unique in this regard,” Peña-Mora says. “It requires a lot of one-on-one interaction, so this is not a program that can be mass-produced. I foresee this program becoming the premier program of leadership in construction, where the high-end corporations will look to pick their next leaders.”

Because of the goal of producing distinctive leaders, admittance standards begin with accepting only undergraduates enrolled at the University of Illinois, and then selecting only students with a primary or secondary
interest in construction management. Students must have attained a minimum 3.0 GPA in all of their other areas of study, including CEE and construction-related courses.

Once a student is admitted to the program, a high degree of customization is involved through the incorporation of electives, or “strands,” paired with an independent study, that allow the students to “pick within construction the areas that are of interest to him or her,” Peña-Mora says. Such areas of elective study could include high-rise building, transportation, or process industry construction, for example. Courses also are available in finance, information technology, business administration, and human resources. This flexibility of course work allows current students like Jeff Dolian (BS 06, MS 07), who graduated in December, to learn about airport design, while some students are still completing the tail end of their undergraduate degrees, others involved with the program are beginning their graduate course work.

Peña-Mora says this overlap creates a “chain of cohorts” that can be traced back to the very first students to be admitted. “We can see that the alumni come back and know one another” because of this idea, he says.

Dubai

One of the recent highlights of the Global Leaders program was the January 2007 trip to Dubai, United Arab Emirates. During 2006, there was $45 billion of real estate construction underway in Dubai, with just as much in development—surely an international learning hot spot for tomorrow’s leaders of construction management. The students hunkered down for 12 days of sightseeing and cultural immersion, plus insider access to some of the most ambitious construction projects in the world.

Being granted access to leadership discussions led by top executives such as Ali Odeh, chairman and CEO of Turner International Middle East, was “just phenomenal,” says Gustavson. For newcomers to the field of global construction management, “it was like getting tips from Robert Plant and Jimmy Page when you want to start a band,” adds Numan Velioglu (BS 06, MS 07), an August 2007 graduate of the program.

“Anybody can go to Dubai, but not anybody can see Dubai the way we saw it and meet the people that we had the opportunity to meet,” Gustavson says.

In addition to closed-doors conferences with some of the construction industry’s top executives, the students and faculty also visited some of the most monumental construction undertakings the modern world has ever seen.

One of these projects was the Burj Dubai, a project that, when completed, will produce the world’s tallest building at more than 750 meters tall. The structure will house commercial, retail and residential units within its 156 stories and more than 10,000 cubic meters of concrete. The students also visited projects underway by Nakheel, including the Ibn Battuta Mall. Completed in 2005, the mall is the largest themed mall in United Arab Emirates and is based on the travels of the famed Arab explorer, Ibn Battuta.

At the Ibn Battuta Mall, the idea of globalization that Professors Peña-Mora and Arboleda spoke of was on display first-hand. As a country slightly
smaller than Maine, Dubai boasts a large population, more than 4 million inhabitants. The workforce is plenty but, Velio glu says, "skills are lower because they aren’t trained like union workers." This became a problem when construction of the Chinese section of the mall was underway, requiring delicate touches to construct intricate Chinese architecture. To overcome this “engineering challenge for quality,” as Velioglu referred to it, project leaders outsourced the work to China and then shipped the pieces to Dubai.

Another Nakheel project the group viewed was the Palm Jumeirah, a man-made cluster of islands in the shape of a palm, a cultural icon in United Arab Emirates. Measuring nearly 750 acres, the residential island complex promises to bring island living to the desert environment of Dubai.

In all, the students traveled 500 miles throughout Dubai. To accomplish this in a country in which the public transportation infrastructure will not be completed until 2010, the Global Leaders group drove vans provided by Zetas, an Istanbul-based drilling company working on projects in United Arab Emirates.

For the students, their trip to Dubai was eye-opening. Most impressive was the sheer scope of the projects happening in Dubai, unduplicated anywhere else in the world and absent from the contemporary construction scene of America.

“I’ve been to a lot of places in the U.S.,” says Gustavson, “and there’s no city I’ve been to that even remotely resembles the amount of construction and sheer awe of the projects in Dubai.”

For Gustavson, his time in Dubai also opened his eyes to the possibility of working in the global scene within which his professors see the construction industry operating.

“If it weren’t for that trip I would have no desire to work out of the country after graduating,” he says.

Assistant Professor Frank Boukamp believes trips like these are crucial to molding students into effective individuals.

“By showing the students what happens at a different level—actually showing them different cultures and giving them the opportunity to also visit other countries—we are opening their minds and making them better leaders,” Boukamp says.

Windows of opportunity

During the 80 percent of the year that students of the Global Leaders program aren’t out traveling the world or working an internship, they are hard at work in Champaign. But the program’s instructors make sure the global aspect is not lost by inviting guest speakers from around the world to campus throughout the school year. These include representatives from ExxonMobil, Bechtel and Turner International.

“I thought the speakers were outstanding,” says Dolian. “Compared with my experience in the design field, I don’t have a lot of practical experience in the construction field. But the speakers would come in and talk about what they’ve been working on in their projects, and I’ve been able to link what we’ve learned in the classroom to what they’re working on in the outside world.”

Besides golden learning opportunities for the students, there is another reason to bring these top construction industry leaders to campus: to open windows of opportunity—for a future internship, for example, or later in life, a full-time job within the industry.

“They are called windows of opportunity because they can close very fast,” Peña-Mora says.

Like the future leaders they will be, the Global Leaders students have been proactive in taking advantage of the opportunities the program offers. This past summer Gustavson worked with Betchel Corporation in Washington State. He is thankful to the program for the opportunity but also stresses the student’s responsibility in the process.

“The program is great in giving us the opportunity [for internships],” he says, “but it is up to the individual student to take advantage of the opportunity. They don’t hand the internship to you, but they really encourage you to be a leader and seize the opportunity.”

Velioglu used connections developed through the Global Leaders in Construction Management program to attain a position at W.E. O’Neil after graduation.

“Velio glu used connections developed through the Global Leaders in Construction Management program to attain a position at W.E. O’Neil after graduation. “I can definitely say that it was the web of connections within the program’s constituents that helped me get where I wanted,” he says.

Michael Addison interned with ExxonMobil Development Company, which
manages projects globally. Back at school, he designed his own class project based on a particular work challenge he faced at ExxonMobil.

It is no coincidence that the top companies are noticing talented students within the Global Leaders program; the executives understand the kind of talent the program is producing.

"By the time they are finished with the Global Leaders program, students have a world-class engineering education rounded out with non-technical coursework and real exposure to the industry," says Pat McGowan, vice president of W. E. O’Neil. "That is the combination that I look for in an employee."

**Growth, connectivity**

It’s evident the Global Leaders program has had its share of success since its beginnings in 2004—the result of motivated students coupled with passionate faculty and supportive departmental administrators. However, this faculty is not a complacent one and is already searching for ways to improve the program for its future students.

One of the immediate additions to the program will be an organized national trip. During the upcoming spring break the group will travel to Washington state to see projects underway by Betchel Corporation, including a tour of a construction site for a nuclear waste treatment plant and a visit to the Tacoma Narrows Bridge.

Arboleda also hopes for more international exposure, primarily from an increase in the number of international guest speakers. He has proposed the idea of corporate CEOs and other executives holding seminars for U of I students. The faculty is hoping to build upon existing relationships with industry through the program’s Industry Advisory Board to develop a “Circle of Friends,” a list of companies that would interact with the program to varying degrees—dubbed Platinum, Gold, and Silver—in hopes of strengthening relationships and establishing a wider conduit for the acquisition of internships and student consultant work.

Peña-Mora also hopes to see the program improve its ability to carry out much more one-on-one interaction with the students. As he sees it, “we are looking at leaders, and leaders have to be nurtured.”

The highest hurdle between the program and these goals is resources.

“I wish that the program could gather more resources so we could expand it and increase the benefits to more students,” says Associate Professor Khaled El-Rayes. “Because of the limited faculty resources we must limit and restrict parts of the program. If we could increase that pool of resources, however, we could expand the benefits for more students.”

Ilesanmi Adesida, dean of U of I’s College of Engineering, supports El-Rayes’ hopes. “We expect the program to continue and to grow in the number of students served and in the diversity of the international experiences.”

With more resources the program could also hold national gatherings to showcase the program and students’ success. Ideally, such an event would span two days and attract current CEOs and leaders of the construction industry. It would recognize not only students at the U of I but also other outstanding students from across the nation in an effort, again, to open windows of opportunity for students.

“It would provide [the program] with a platform in which our students could be showcased, and the companies would see first-hand what the Global Leaders Program is all about,” Peña-Mora says. This would further the faculty’s goal of seeing the program become the nation’s premier source for leaders of the future’s large-scale, globally spanning projects.

“The main motivation for this program is the trend toward globalization and outsourcing,” says El-Rayes. “We’d like to position our students to be leaders, to lead projects globally, not only nationally.”

In just its fourth year of existence, the Global Leaders in Construction Management program has already attracted the attention of top industry executives. The faculty is pleased as well.

“The program is a wonderful and exciting opportunity for our students to position themselves in a global career in the construction industry,” says Liu. “[The students] will play a major contributory role in the future and represent our program, our department, and our school.”

Photos, left to right: a meeting at a construction site in Japan; a pagoda in Asakusa; students pose at a construction site of the Shimizu Corp. in Tokyo; students receiving instruction at a Kajima Corp. construction site; the Burj Al-Arab, the world’s only seven-star hotel; sightseeing along the creek in Dubai.
When hurricanes Katrina and Rita devastated the Gulf Coast region in 2005, one of the most difficult recovery problems was that faced by the oil industry: the storms had toppled 115 offshore oil platforms. While some could be left to function as artificial reefs, others had to be dealt with. Because of their size and weight, raising even one fallen platform would have been an engineering challenge. The sheer number of these massive structures and the water depth at which they rested—most between 100 and 300 feet—presented an engineering problem of unprecedented complexity.

It was just the kind of problem that CEE alumnus Jon Khachaturian (BS 78) could sink his teeth into. The president of Versabar, a company specializing in engineering solutions to heavy lifting problems, had carved out a niche for himself in the 1980s by inventing a patented system to lift unwieldy loads safely and cost-effectively. At age 26, just three years out of college, Khachaturian had invented the reusable spreader bar and founded Versabar in Belle Chasse, La., soon becoming the go-to guy for companies wanting to rent out specialized lift equipment or purchase custom systems for unique lift needs. With his company headquarters near New Orleans, Khachaturian had witnessed first-hand the destruction of the storms. He quickly turned his attention to solving the problem of the toppled oil platforms. The resulting invention has gained widespread attention for Versabar and solidified the company’s reputation as a world leader in heavy lifting solutions.

Khachaturian’s invention, which he named the Bottom Feeder, is a dual-barge, four-crane lifting system. Two enormous barges are connected to two steel truss frames by universal joints, a unique design that affords the machine maximum flexibility, preventing damage even in high waves. Divers prepare a deck for lifting by fitting it with custom-designed lifting hooks. When the Bottom Feeder arrives, the lift rigging can be connected to the deck without divers, and loads of up to 4,000 tons can be raised safely between the two barges. The procedure is significantly more stable than attempting to use a single crane barge, which would be susceptible to tipping. The Bottom Feeder can be used in up to 400 feet of water, and at $30 million, costs 10 times less to build than a crane.

“It’s like a catamaran—a football field-sized catamaran,” Khachaturian says.

In just 14 months, the Bottom Feeder was operational. Using it, Versabar has salvaged six platforms since last summer and is scheduled to lift 12 to 18 more by summer 2008. Now that the Bottom Feeder has proven successful, Khachaturian has already thought of another application for the technology behind it that takes advantage of the stability it affords on the high seas. His newest venture, VersaBuoy International, is marketing the technology for the creation of stable platforms in deep water.

The son of CEE Professor Emeritus Narbey Khachaturian (BS 47, MS 48, PhD 52) and his wife, Margaret, Jon Khachaturian credits his father with sparking his interest in civil engineering and his mother with fostering his entrepreneurial spirit. Margaret encouraged backyard carnivals and haunted houses, Khachaturian says, and one summer ran a tour business to take busloads of people from the Urbana-Champaign area to see the King Tut exhibit in Chicago, capitalizing on the fact that groups—regardless of their affiliation—were exempt from the exhibit’s long lines. Narbey offered both the example of a satisfying civil engineering career and exposure to the department in which Jon would eventually study structures as an undergraduate.

“Just growing up around the department and faculty—they were just such great guys, and they were fun to be around,” he says.

Last year, Khachaturian’s son Matthew, also graduated from the department and went to work for another of Khachaturian’s companies, VersaMarine, which performs computer modeling and testing. When Matthew signed the membership book for Chi Epsilon, the civil engineering honor society founded at the University of Illinois, he added to the quote: “We use engineering to bring high value. We design new things to do jobs that they can’t come up with a solution for, or for which the solution that they have is just cumbersome and expensive.”
For more information, visit www.conferences.uiuc.edu/structural or contact Margaret Krause, mlkrause@uiuc.edu, (217) 333-6900

Confirmed presentations include:

Transportation, Planning and Challenges in Illinois
Milton Sees, P.E., (BS 75) Secretary, Illinois Department of Transportation

Avoiding Collapses During Construction
W. Gene Corley, P.E., S.E., (BS 58, MS 60, PhD 61) Senior Vice President, CTL Group

Future Trends in Building Design and Construction
Charlie Thornton, P.E., Thornton Tomasetti

The Art Institute of Chicago, Modern Wing Addition
Bob Lang, Director, Nicola Whiteford, Associate Director, Arup, London, United Kingdom

Trump Tower Chicago
Dane Rankin, S.E., P.E., Associate, Skidmore, Owings & Merrill LLP, Chicago, Illinois

Demystifying Blast
Ramon Gilszan, P.E., Gilsanz Murray Steficek LLP

Complex Geometries in High Rise Structures
David Farnsworth, Associate, Arup, New York City

Inventory, Inspection and Evaluation of Illinois Bridges
Ralph Anderson, S.E., (BS 71) Chief Bridge Engineer, Illinois Department of Transportation

Instrumentation and Monitoring of a Concrete Arch Bridge on Oregon’s Scenic Coastal Highway
Tanarat Potisuk, PhD, P.E., Structural Design Engineer, H.W. Lochner

For more information, visit www.conferences.uiuc.edu/structural or contact Margaret Krause, mlkrause@uiuc.edu, (217) 333-6900
Wide-base tires are the next big thing for the trucking industry, and CEE researchers are North America’s foremost experts on the subject. The wide-base tire, as a replacement for the conventional dual-tire system on commercial trucks, is an innovative technology that benefits the environment through fuel efficiency. To pave the way for optimal implementation of this new tire technology, researchers at the Illinois Center for Transportation (ICT) are taking the lead on U.S. and international research related to the wide-base tire.

“By quantifying the wide-base tire’s impact on pavements and easing related concerns, the ICT has provided the wide-base tire with even more potential to benefit the nation’s trucking industry and the environment,” says Imad L. Al-Qadi, ICT Director and U of I Founder Professor of Engineering.

What is a wide-base tire?
A wide-base tire is simply a wider tire that replaces the dual-tire system. Traditionally, dual-tire systems have been used on commercial semi-truck trailers to provide an adequate footprint to carry heavy loads and distribute axle load over a large area of the pavement. However, the wide-base tire is proving itself as a good economic option for the trucking industry for several reasons. For one, a single wide-base tire and wheel combination is lighter than two standard tires and wheels, and the conserved weight may be used either to reduce fuel consumption or to increase cargo capacity for trucks. Savings in fuel consumption are also realized through the reduction of a truck’s rolling resistance when a wide-base tire is used. Using one tire increases the truck stability as the clearance between the wheel centers increases. Additionally, the trucking industry can realize savings through tire repair and recycling.

The evolution of wide-base tires
Wide-base tires have evolved considerably since their introduction in the ear-
ly 1980s. The early wide-base tires were found to cause a significant increase in pavement damage compared to the dual-tire system. This led many transportation agencies to discourage their use, Al-Qadi says. A new design of wide-base tire, introduced in 2000, was found to result in an improved load distribution and better handling. These tires were tested extensively at the heavily instrumented Virginia Smart Road—designed and instrumented by Al-Qadi and his students—to quantify the response of different pavement designs to various tire configurations. This extensive research contributed to the development of a new wide-base tire, introduced in 2003.

Through ICT, Al-Qadi and his students continued to conduct extensive testing and advanced modeling research on this new generation of wide-base tires. They used three-dimensional tire-pavement measured stresses to model, for the first time, the pavement loading with moving tires at various loadings, tire pressures, and speeds. The researchers were able to identify the critical locations where the pavement damage is usually initiated, which have always been assumed, in many cases erroneously. Researchers at ICT, led by Al-Qadi and his students, validated the modeling outcome by utilizing instrumented flexible pavement test sections at the Advanced Transportation Research and Engineering Laboratory facility in Rantoul, III. The test sections were then loaded with the full-scale Accelerated Transportation Loading ASsembly (ATLAS) which can imitate real-life traffic loading using various tire types and systems under different loading conditions.

Disseminating the research

As a result of full-scale testing and advanced modeling, Al-Qadi and his students have found that the newest generation of wide-base tire would result in a similar level of pavement impact as the conventional dual-tire system, but with a varying pattern of damage for the pavement they tested. Furthermore, Al-Qadi recommends that a wide-base tire be used in the steering axle, because in addition to providing better handling, it would significantly reduce damage to the pavement. His research has demonstrated that a significant portion of the pavement damage related to traffic loading is caused by the steering axle, which applies more load per unit area.

Due to the environmental, economical, and safety advantages of the newest generation of wide-base tires, their use in the U.S. will rapidly increase, Al-Qadi predicts. With the support of the Federal Highway Administration (FHWA), he led a discussion in late October on the wide-base tire’s future in the U.S. and related research strategies. Ten leading international researchers on pavement-tire interaction were invited to participate, along with scientists from the trucking and tire industries, and environmental and FHWA researchers. The Illinois Department of Transportation was also invited, because Illinois is a leading state in this effort.

Europe has been using a different design of wide-base tire for the past two decades because of an axle-load limit difference, Al-Qadi says. Acceptance has taken longer in the U.S., partly because of the attempt to introduce improperly designed wide-base tires in the 1980s.

“The good news is that the use of the new generation of wide-base tires has been growing substantially, and many stakeholders are interested in the technology, including the trucking industry, the Environmental Protection Agency, FHWA, and pavement researchers,” Al-Qadi says. “The ICT will continue leading research efforts in this field, collaborating with other world-renowned researchers on tire-pavement interaction, and disseminating the outcome of its research in North America and the world.”

Finite element simulation of wide-base tire (left) and dual-tire assembly (right) loading on viscoelastic flexible (asphaltic) pavements using three dimension stresses applied by each tire rib.
The classroom was bustling with levels of noise and activity not usually seen in school. But beneath the apparent chaos, something unique was happening. Third and fourth graders were using terms like “dissolved oxygen” and “turbidity.” With handheld devices, they took measurements of various solutions in plastic cups and recorded their findings. One group considered a question posed by Dongwook Kim, a CEE graduate student.

“You’re a fish,” he postulated. “Which solution do you want to live in—just based on turbidity?”

After a brief detour in which one boy suggested a fish might enjoy living in what appeared to be cola “so it can drink and swim at the same time,” the children grasped Kim’s meaning. A fish would prefer a clearer, less turbid, solution, they answered.

The 16 students in Amy Bayless’ classroom at Booker T. Washington Elementary in Champaign in October were participants in EnviroTech, an after-school program that used topics in environmental science and technology to engage students and improve their literacy skills, science knowledge, and attitudes about science. The program was designed by CEE Assistant Professor Timothy Strathmann and Minosca Alcantara, Assistant Director of the Women in Engineering program, in collaboration with the College of Education and educators at Washington school. Funding for the pro-

Top photo: CEE graduate student Dongwook Kim discusses various solutions with students at Booker T. Washington Elementary in Champaign. Bottom photo: Assistant Professor Timothy Strathmann shows students how to take measurements in the solutions.
gram was provided by the U of I Chancellor’s office. In addition to Kim, CEE graduate students Tias Paul, Heather Martin, and Lanhua Hu helped out in the classroom. The 10-week pilot program may expand into a full year if additional funding sources are identified, Strathmann says.

The two-part curriculum covered Creating an Ecosystem, and Protecting and Sustaining an Ecosystem. In the first days of the program, EnviroTech students set up their own ecosystem with native Illinois fish in an aquarium donated by the U of I biology department. They monitored its health by taking regular measurements of things like temperature and pH. Later on, students learned about environmental engineering, water pollution, and making water safe. Field trips included a visit to the environmental engineering laboratories in Newmark Lab and the Urbana wastewater treatment plant.

The participating students were selected because they read below grade level, said Principal Sherry Alimi. EnviroTech harnessed the children’s natural curiosity about science to improve their literacy skills and teach them about environmental science in the process, she said. Encouraging science is important in a school with a high minority population, Alimi said, because those groups are under-represented in science-related careers. When asked whether she had seen any changes in the students since the beginning of EnviroTech, Alimi responded with a smile.

“Well, they’re not absent,” she said.

Strathmann hopes EnviroTech improved the children’s science and literacy skills and generated some excitement about scientific discovery and environmental engineering as a career option.

When asked if they are going to be scientists when they grow up, one boy pondered the idea.

“Yeah, maybe, I don’t know.”

“Of course you are,” said Strathmann. “You’re going to take my classes someday.”

The boy smiled. “Yeah, okay Timm.”

Recipe for a future engineer

With peanut butter, sugar cubes, sand and teenage enthusiasm, these high schoolers spent an afternoon in Newmark Lab in August building what just might be the foundation of a future career in structural or geotechnical engineering.

The juniors and seniors spent a day in the department as part of the College of Engineering (COE) summer camp, Exploring Your Options. The week-long residential camp introduces students to engineering through presentations and projects in departments across the college. Here, they work in teams on hands-on activities—for example, building structures with sugar cubes and peanut butter—designed by CEE faculty and graduate students to teach them about geotechnical and structural engineering.

For more information about this and other camps offered through the COE and Worldwide Youth in Science and Engineering, visit http://www. engr.uiuc.edu/wyse/.
Garcia named director of Hydro Lab

Professor Marcelo Garcia, the first Chester and Helen Siess Endowed Professor in Civil and Environmental Engineering, has been appointed the founding Director of the Ven Te Chow Hydrosystems Laboratory.

The department has a long tradition of excellence in large-scale experimental research in water resources engineering. From Professor Arthur Talbot’s pioneering work on drainage flows in the late 1800s; to the seminal work on sediment transport by Fred Mavis in the 1930s; to the construction of the first large-scale rainfall generator by professors Ven Te Chow and Ben Chie Yen in the 1970s, CEE has long been a world leader in hydrology and hydraulic engineering.

The Hydrosystems Lab, which marked its fortieth anniversary in December, was established in 1967 by Professor Ven Te Chow with funding from the National Science Foundation and the State of Illinois. It was originally designed by Professor Hall Maxwell. The lab recently enhanced its state-of-the-art facilities with the addition of the Large Oscillatory Water-Sediment Tunnel, the only one of its kind in the U.S., built and equipped through grants from the Office of Naval Research.

Current research conducted by faculty of the lab includes the development of a real-time hydrologic/hydraulic model to optimize operation of the deep tunnel system known as TARP in the Chicago area. A statewide effort to prevent drowning accidents at low-head dams is making wide use of technologies developed at the lab in the last decade.

Large-scale laboratory experiments on deep-water sedimentation for hydrocarbon reservoirs have also attracted recent, new support from the oil industry.

Lenzini is Chi Epsilon Chapter Honor Member

Peter A. Lenzini, P.E., (MS 71) who retired in 2007 as a Lecturer and Undergraduate Adviser, was named the fall 2007 Chapter Honor Member of Chi Epsilon Alpha Chapter, the 78th in the group’s history.

Chi Epsilon is a national civil engineering honor society founded at the U of I in 1922. Chapter Honor Members are those who have distinguished themselves in the field of civil engineering and been of great service to the chapter and the student body.

Lenzini taught undergraduate courses on introductory soil mechanics and foundation engineering, and a graduate class in applied soil mechanics. He lectured on case histories in foundation engineering and earth dams. In 1998 he developed and taught CEE’s first senior design project class. He is a professional engineer licensed in Illinois and California.

During his more than 25 years in CEE, Lenzini has been recognized numerous times for excellence in teaching and advising.

Amanda Bordelon (BS 05, MS 06), a current CEE Ph.D. candidate, has won the 2007 Katharine and Bryant Mather Scholarship. The scholarship, sponsored by ASTM International Committee C09 on Concrete and Concrete Aggregates, is presented each year to students who are pursuing degrees specializing in cement or concrete materials technology or concrete construction. A graduate research assistant at the University since 2005, Bordelon works on fiber-reinforced concrete, fracture mechanics, ultra-thin whitetopping and multi-functional graded concrete pavement design. A member of the American Concrete Institute (ACI), Bordelon has served as president of the ACI-Uluc student chapter since 2006. In addition to ASTM International, she is also a student member of the American Society of Civil Engineers (ASCE), American Railway Engineering and Maintenance-of-Way Association and the International Society of Concrete Pavements (ISCMP), where she is the assistant newsletter editor.

Associate Professor Khaled El-Rayes of the construction management group received the American Society of Civil Engineers’ (ASCE) 2007 Thomas Fitch Rowland Prize for the paper entitled, “Parallel Genetic Algorithms for Optimizing Resource Utilization in Large-Scale Construction Projects," published in the ASCE Journal of Construction Engineering Management. Amr Kandil (PhD 05), El-Rayes’ advisee, co-authored the paper. Kandil is an Assistant Professor at the University of Iowa. El-Rayes was promoted this summer to Associate Professor with indefinite tenure.

Professor Keith Hjelmstad has been named a Donald Biggar Willett Faculty Scholar. The Willett Scholar program is the result of a bequest by Elizabeth Marie Henning Willett in memory of her late husband, Donald Biggar Willett, who attended U of I from 1916 to 1922 and studied civil engineering.

Robert R. Holmes Jr., an Adjunct Assistant Professor in the Environmental Hydrology and Hydraulic Engineering group, was recently named a Diplomate Water Resources Engineer of the American Academy of Water Resources Engineers, a subsidiary of the American Society of Civil Engineers. Holmes is the
You might say J. Riley Edwards (MS 06) began his career as a railroad educator during his childhood in Tennessee. As a young teenager, he channeled his love of trains into a first-place science fair exhibit about safety at rail crossings. At the regional competition, his exhibit caught the eye of a state official for Operation Lifesaver, a national initiative to prevent accidents at grade crossings. One thing led to another, and by the age of 15, Edwards had become Operation Lifesaver’s youngest trained presenter. He spoke at local driver’s education classes, traveled across the country to conferences, and helped establish a youth advisory board for the organization.

This fall Edwards became a lecturer in the Railroad Engineering Program. The new teaching position is part of the ongoing expansion of the program, made possible through funding by CN, CSX, Hanson Professional Services and the George Krambles Foundation. Edwards earned his master’s degree in the Railroad Engineering Program here and also holds a bachelor of engineering degree with a concentration in transportation engineering from Vanderbilt University. After graduating from Illinois, he spent a year as a construction engineer for Hanson Professional Services in Memphis, Tenn., before returning as a member of the faculty.

“It was a tough call for me, because I’ve always loved being in the field,” Edwards says. “That’s why I love field trips—I get to put my steel-toed boots back on. But teaching people is really rewarding, especially in something that you’ve had an interest in since childhood.”

Edwards is developing a railroad capstone design course to be co-taught with Associate Professor Christopher P. L. Barkan, the director of the Railroad Engineering Program. The course will give students a comprehensive look at a railroad design project from conception to operation. He will continue his research in machine vision technology, which he began as a graduate student here, and collaborate with Barkan on research funded by the American Association of Railroads’ Technology Scanning Committee. The work explores the use of machine vision to continuously inspect rail cars and track components.

Another goal of Edwards’ position is to increase enrollment in the railroad engineering classes by spreading the word about expanding opportunities for graduates due to high projected retirements in the railroad industry in the coming years.

“There are a lot of students who don’t even know what the railroads have to offer and what great job possibilities there are,” he says.
Youssef Hashash is first Webb Scholar

Nearly 140 years ago, John Burkitt Webb, the first head of the civil engineering department at the University of Illinois, earned a reputation as a brilliant mathematician with exacting standards. Today, a CEE professor whose expertise is developing innovative approaches to numerical modeling has been honored with the new Faculty Scholar position that bears Webb's name. Associate Professor Youssef Hashash of the geotechnical group has been named the first John Burkitt Webb Faculty Scholar in Civil and Environmental Engineering.

"This is a wonderful recognition of the work I've been doing," Hashash says. "I hope to carry forward the tradition of excellence."

Hashash's work focuses on the development of new modeling methods that integrate simulation capabilities with measurements for more comprehensive, accurate depictions of reality. His work has wide-ranging applications in such diverse fields as construction and bioengineering, and encompasses deep excavations, geotechnical earthquake engineering—through a long association with the Mid-America Earthquake Center—and discrete element modeling.

A suite of tools Hashash is developing for reducing construction-related damage to surrounding structures during deep excavations in urban areas is being demonstrated at large construction sites in Chicago, Boston and Texas. The work combines laser scanning, image analysis of still photographs, and highly advanced simulation models that "learn"...
from observed experience. Developed in collaboration with Professor Richard Finno (BS 75) at Northwestern University and Professor Liang Liu and Professor Emeritus Jamshid Ghaboussi at Uof I, the work promises an accurate, comprehensive view of a given construction project and its effect on the surrounding area that will help engineers in the field make timely decisions to prevent damage.

“The whole focus of this work is to develop a strong linkage between estimates of ground deformations and construction performance,” Hashash says, “so that as we proceed with our construction and as we monitor the process of construction, we can compare the measurements to predictions. If they deviate, we can use that information to update our models and update our predictions for later stages and determine if there is a need for any corrective action.”

These computational techniques have also been extended to problems related to better understanding of cyclic soil behavior during seismic shaking, leading to enhanced simulation tools for seismic site response.

In pursuit of his goal of more realistic, higher fidelity models, Hashash is deploying some of his more computationally-demanding simulations at the National Center for Supercomputing Applications to explore the use of a new generation of computer architecture, reprogrammable hardware. Using hardware programmed for a specific task—much faster than software instructions to computer chips—Hashash hopes to speed up the computer code enough to enable fast, efficient modeling that was previously impractical because of computing limitations.

A brand new research area for Hashash is applying his modeling methods to the field of bio-engineering, developing software tools and models for characterizing the mechanical properties of red blood cells. The University of Illinois research board awarded Hashash a grant to do exploratory research in this area, after a magazine article sparked his interest in the subject. Because a cell’s mechanical properties are directly related to its health, the work could prove invaluable in the diagnosis of disease. It may seem an unusual focus for a civil engineer, but Hashash sees a connection.

“If you really look at a cell, it is a structure,” he says. “As engineers, we model structures and materials. The cell structure represents an exciting and challenging modeling problem.”

The pursuit of a solution to an interesting problem goes to the heart of the two things Hashash enjoys most about his work—the challenge and the intellectual exchange with students.

“One is the discovery, the uncertainty,” he says. “I like to try things we’re not sure will work. And that would be impossible without students. Working with students is an energizing experience. They have a fresh perspective on things, and their judgment is less biased by preconceived notions than ours. Energy, enthusiasm—it’s great to be around them.”

Hashash has served on the department faculty since 1998. He and his wife, So-young Kim, have two daughters, Sarah, 6, and Dina, 3.

For more information on Hashash’s research, visit www.uiuc.edu/~hashash.

John Burkitt Webb
1841-1912

J ohn Burkitt Webb was born in Philadelphia on Nov. 22, 1841. He earned his civil engineering degree from the University of Michigan in 1871 and was teaching there as an assistant professor of civil engineering when he was invited to join the faculty at the University of Illinois in November of that year. He was appointed Professor of Civil Engineering and is considered the first official head of this department.

Webb was “an unusually expert draftsman, a fine mathematician and a very skillful workman in both wood and metal,” according to the History of the College of Engineering of the University of Illinois, 1868-1945, by Ira O. Baker and Everett King. As a teacher, Webb insisted that students strive for perfection in their work.

“In mathematics, his vision was so clear and his analysis so keen that he saw at once the solution of abstruse problems that seemed impossible to his most brilliant students,” wrote Baker and King.

In 1878, when Webb had served as department head for nearly seven years, he obtained a leave of absence to go abroad. He resigned from the University the following year. Webb’s later career included serving on the faculties at Cornell University and Stevens Institute of Technology.

Webb died on February 17, 1912, in New York City.
In Memoriam

1930s

Albert Litvin (BS 38) died in May 2007 at age 90.

Charles E. "Red" Carter (BS 38) of Tucson, Ariz., died June 29 at age 92. During WWII, Carter helped build war ships in Pascagoula, Miss. After the war, he opened an engineering consulting firm in Peoria, Ill., Associated Engineers Inc. Because of his extraordinary service to Boy Scouts of America Creve Coeur Council, Carter was recognized with the Silver Beaver Award.

1940s

E. Edward Bare (BS 47) of Downers Grove, Ill., died in May 2007. Bare was an executive at U.S. Steel for 30 years. He was a WWII U.S. Navy veteran.

John H. Burneson (BS 47) died July 7 at age 82. He served as an Ensign in the U.S. Navy. His engineering career was spent as a structural engineer in the special structures division of the Sverdrup Corp. in St. Louis, where he retired after 40 years of service.

Hugh H. Connolly (BS 48, MS 49) died April 7 in Tucson, Ariz. Connolly was a member of the U of I President's Council and the Tucson Illini Club.

Camden Page Fortney Jr. (MS 40) died July 23 at age 92. Fortney was a retired Colonel in the U.S. Army. During WWII, he served on the team of engineers that built the Burma Road across the Himalayas. He was awarded the Bronze Star. After retiring from the Army, Fortney worked in executive positions with engineering firms in the New York City area, then taught civil engineering at Miami-Dade College until his retirement in 1984.

Raymond V. Koehler (BS 43) of Des Plaines, Ill., died April 1. He served in the U.S. Army Corps of Engineers during WWII and the Korean War. He was a structural engineer for BP/Amoco for 32 years.

Charles D. Moore (BS 46) died Feb. 15 in Payette, Idaho. He served in the U.S. Navy and was on the USS Nevada during Pearl Harbor. His achievements include being elected to the Washington and Oregon Skeetshooting Hall of Fame.

Nick Pokrajac (BS 40) of Monrovia, Calif., died in May. A prominent school builder, Pokrajac constructed many public schools throughout Southern California. Upon his retirement, he became active with construction projects at Camp Trask, a Boy Scout Camp in Monrovia, where a dining hall bears the name "Pokrajac Hall" in his honor. During WWII, Pokrajac was an active duty officer in the U.S. Army and served under Gen. George Patton in France. He received the Bronze Star for leadership and bravery and the Croix de Guerre for heroism from the French government. Pokrajac and his wife, Adelyn, were longtime supporters of CEE and members of the University of Illinois President’s Council.

George A. Roush (BS 42) died April 7. Roush served in the U.S. Army Air Corps during WWII. After WWII, Roush became a civil engineer for the City of Dallas.

Donald J. Schliemann (BS 41) died July 3. Schliemann was a public health civil/sanitary engineer for the U.S. Public Health Service and the Pan-American Health Organization of the World Health Organization. He was a supervisor in the technology branch of the Centers for Disease Control.

1950s

W. Richard Casler (BS 55) died Sept. 11, 2006.

William E. Chapman (BS 55) of Lincoln, Calif., died May 7. Chapman served in the U.S. Army during the Korean War. His professional career included employment at Shell Oil Co., Bechtel, and KCA Engineers in San Francisco. After his retirement in 1984, he volunteered in the Sudan to assist with a water supply system and at the Bay Area Rescue Mission in Richmond, Calif.

William C. Hoeltje (MS 52) died Aug. 6. Hoeltje was a retired vice president of Alfred Benesch & Co. He was a sergeant in the Army Air Force 305th Airborne Squadron, 5th Air Force. He was awarded five Battle Stars and the Purple Heart.

Russell E. Maher (BS 59) died July 22. He was 75. Maher was a member of the 82nd Airborne during the Korean War. He retired in 1999 after 38 years as a sales engineer with the Gardner Trane Co.

Norton J. Murphy (BS 56) of St. Charles, Ill., died Aug. 22 at age 76.

John H. Ragen (BS 55) died July 11. Ragen worked as a civil engineer for Inland Steel Co. in East Chicago, Ind., for 35 years, retiring in 1990.

James D. Robinson (BS 58) died June 23 in Santa Monica, Calif., at age 76. Robinson fought with the U.S. Marines in the Korean War. He spent most of his career working for Armco Steel.

William A. Ross (BS 53) of Phoenix, Ariz., died May 2. Ross retired from the Arizona Department of Transportation, where he served as Principal Engineer for the Papago Freeway.

Andrew P. "Pat" Smith (BS 50) of Geers Ferry, Ark., died May 20. A Navy veteran who served in Korea, Smith was the owner of A.P. Smith & Associates Civil Engineers in Geneva, Ill.

Vesper Lee Taylor, P.E., (BS 59) died May 2. Taylor served in the Korean conflict as an Army engineer. He was employed by IDOT and the Department of Land Acquisition for 50 years. Taylor was a volunteer for the Boy Scouts and a member of the Lincoln Land BeeKeepers Association.

Willard W. Williams (BS 51) died March 17. He was superintendent of highways for DeKalb and McDonough counties for 30 years.

1960s

Donald G. Beiser (BS 68) of Champaign died May 3. Beiser served in the Illinois Army National Guard from 1968 until 1974 as a medical corpsman. His career included owning Lehigh Paving in Paxton, Ill.

Edward P. Cook (BS 60) died May 30 in Mesa, Ariz. He retired after 30 years of service to the U.S. Department of Agriculture Soil Conservation Service.

Jack Joines (BS 64) of Bluffton, S.C., died March 25. Joines was the Director of Engineering at Houston Medical Center in Warner Robins, Ga. Joines served in the U.S. Air Force in many locales, including Germany, Vietnam and the Philippines. He earned the Meritorious Service Medal and the Bronze Star.

1970s

Gen. Gerald C. Brown (MS 70) died July 2006 in Falls Church, Va.

Joseph C. Denovellis (BS 77) died April 7. Denovellis was a senior highway engineer for 30 years and was employed with Parsons, Brinckerhoff, Quade and Douglas of Chicago at the time of his death.
1950s

W. Gene Corley, P.E., S.E., (BS 58, MS 60, PhD 61) is the 2007-08 president of the National Council of Examiners for Engineering and Surveyors.

1960s

Donald J. Hagerty (MS 67, PhD 69), a professor of civil and environmental engineering at the University of Louisville, won the Acorn Award from the Kentucky Advocates for Higher Education. The award, which includes a $5,000 honorarium, honors outstanding teachers at state public or private colleges and universities. Last year, Hagerty was honored with the University of Louisiana’s Trustees Award for extraordinary impact on students.

R. Shankar Nair (MS 66, PhD 69) was honored by the American Institute of Steel Construction Inc. (AISC) with the T.R. Higgins Lectureship Award for his paper, “Stability and Analysis Provisions of the 2005 AISC Specification for Steel Buildings.” Nair is a principal and senior vice president of Teng & Associates Inc., a design and construction firm headquartered in Chicago.

Edward L. Thackston (MS 63) was named a Distinguished Alumnus of the Vanderbilt University School of Engineering. He retired in 2000 after 19 years as chairman of the Department of Civil and Environmental Engineering at Vanderbilt.

1970s

David Darwin (PhD 74) is President of the American Concrete Institute (ACI). Darwin’s one-year term began in April 2007 at the institute’s spring convention in Atlanta. He is the Deane E. Acker’s Distinguished Professor of Civil, Environmental and Architectural Engineering and Director of the Structural Engineering and Materials Laboratory at the University of Kansas, where he has been a faculty member since graduating from the U of I.

D. Edward Davis, P.E., (BS 76, MS 87) is the 2007-08 president of the Florida Engineering Society (FES).

Continued on page 28

1975 alumnus appointed IDOT secretary

Milton R. Sees, P.E., (BS 75) has been appointed Secretary to the Illinois Department of Transportation (IDOT). Sees was named to the position by Governor Rod R. Blagojevich in September and confirmed by the Illinois State Senate in October. He had been the Acting Secretary since earlier this year.

“Throughout these last few months, Milt has worked very hard to help make IDOT more efficient, and our roads safer for motorists,” Blagojevich said.

Sees joined IDOT as Director of Highways in 2006. Previously, he served as General Manager of Crisp Container Company, Vice President and General Manager for Southern Illinois Concrete Products Co. Inc., President and Chief Lobbyist for North American Wire Reinforcement Institute, Executive Director of the Illinois Concrete Pipe Association, and Deputy Director and Assistant Chief Engineer for the Capitol City Railroad Relocation Authority.

“Whether by enforcing seat belt laws, educating the public about the importance of child safety seats, or improving the conditions of our roads, I’m committed to continue making Illinois roads safer, and following the Governor’s direction to run IDOT in an efficient and streamlined manner,” Sees said.
Cheng named ASCE Honorary Member

Franklin Y. Cheng, P.E., (MS 62) was elected a 2007 Honorary Member of the American Society of Civil Engineers (ASCE) on Nov. 3 at ASCE’s 137th annual civil engineering conference in Orlando, Fla. He is Curators’ Professor Emeritus of civil engineering at the University of Missouri-Rolla.

Cheng was honored for his significant contributions to earthquake structural engineering in optimization, control and structural dynamics, for his distinguished leadership and service in the international engineering community, and as a well-respected educator, consultant, author, editor and member of numerous professional committees and delegations.

Cheng’s research helped establish the vital importance of the possibilities of automatic computing in the future of civil engineering. He was one of the pioneers in alloying computing expertise to the design of large and complex structures against dynamic loads. His research expanded over the years to include the topics of structural optimization and the design of smart structures. Today Cheng is considered one of the world’s foremost experts on the application of structural dynamics and optimization to the design of structures.

Continued from page 27

He was installed with his board of directors at the FES annual meeting in August. Davis is a vice president and the director of quality for CH2M HILL’s Southeast Water Business Group. Davis and his wife, Denise, live in Orlando, Fla. They have two daughters, Pamela and Angela, and two grandsons.

Joseph Egan (BS 79) recently marked 25 years with BP and its predecessor company, Amoco. Egan is an economics analyst in BP’s Gulf of Mexico Exploration & Production group in Houston. He lives in Katy, Texas, with his wife, Felicia, and two sons.

Theodore P. Georgas, P.E., S.E., (BS 79) is Assistant Superintendent of Highways for the Cook County Highway Department. Georgas has worked at the agency since he graduated from U of I. He was promoted in July from the position of Design Bureau Chief Engineer.

Andrew W. Richardson (BS 78) is the first Chief Executive Officer of Greeley and Hansen, a consulting firm specializing in water, wastewater, and solid waste products.

Steven O. Stewart (BS 73) and his wife, Ann, celebrated their 30th wedding anniversary this year.

James K. Wight (PhD 73) is the Frank E. Richart Jr. Collegiate Professor of Civil Engineering at the University of Michigan. His research has focused on the earthquake-resistant design of concrete structures and the development of the strut and tie method for analyzing and designing concrete members.

Continued on page 30

Illini, help the CEE magazine tell your stories!

The CEE magazine is always on the lookout for noteworthy alumni to spotlight in our recurring features, Influential Illini and Where Are They Now?

Are you—or do you know of—a former student leader who could contribute an essay for Where Are They Now? These are lighthearted pieces telling your former classmates and teachers what you’ve been doing since graduation.

Do you know of a CEE alumnus or alumna who is making a difference in civil engineering? Our Influential Illini features allow us to share their stories with everyone.

Send your suggestions to the editor by email, celeste@uiuc.edu, or by mail to the address listed on page 4. We look forward to hearing from you!

1980s

Keith B. Meyer (BS 82, MS 83) is a partner in the Chicago office of Heidrick & Struggles International Inc., a provider of senior-level executive search and leadership consulting services.

Continued on page 30
Class of 1943 plaque honoring CE professors relocated to Newmark Lab north crane bay

A plaque commissioned by members of the CEE Class of 1943 to honor their professors has been moved from its original location in Engineering Hall to a permanent spot in Newmark Civil Engineering Laboratory. The move was initiated to give the plaque greater visibility to today’s civil and environmental engineering students and bring it home to CEE.

The plaque represents a unique, public display of gratitude on the part of the Class of 1943, a group of 49 men who earned their degrees against the backdrop of the attack on Pearl Harbor and the advent of the U.S. involvement in World War II. It may have been the uncertainty of the times, they say, that cemented the bonds between them. Some of them saw patriotic significance in their study of engineering.

“We were a small class, and all stayed in school because the government said, ‘You engineers should stay in college and get your degrees and then go to work in the war industry. We need engineers in the war industry,’” said Louis A. Bacon (BS 43).

“Most of us in ROTC went to the summer semester in ‘42 to graduate in early February of ‘43,” said Arnold Kohnert (BS 43). “The feeling that if we didn’t, the war might end without us may seem odd today, but you had to live through that period to fully appreciate the strong support the nation had at that time.”

Whatever the reason, the class has long been considered one of the department’s most cohesive year groups. The tradition of an annual newsletter, to which members contribute personal letters, has continued unbroken since 1944. Together they established a scholarship in 1979, the Class of 1943 Undergraduate Leadership Award. The annual award recognizes a CEE junior who has demonstrated that he or she understands the need to prepare for the practice of civil engineering by having not only a sound technical background but also experience in leadership, says Raymond Ackerman (BS 43).

“The title and purpose we chose for the award seemed appropriate since many of our class had demonstrated their leadership abilities through accomplishments including serving as officers in the Army, Navy, and Merchant Marines during WWII,” says Ackerman, who is already planning the 65th class reunion for next fall. Many went on to become leaders in government, industry and academia.

The group’s gratitude toward their professors and the department they called home found permanent expression in the plaque, commissioned in 1998 during the renovation of Engineering Hall, where CEE classes were held back when the Class of ’43 was on campus. Alfred “Dick” Webster (BS 43) coordinated the effort to decide which professors’ names to include on the plaque, finalize its wording, and collect money for its purchase.

The plaque hung on the first floor of Engineering Hall until it was moved to Newmark this summer. Its new location in the north crane bay—the site of numerous student and alumni gatherings throughout the year—will ensure that its message of gratitude finds the largest possible CEE audience for years to come.

Class of 1943

Raymond J. Ackerman  
Louis A. Bacon  
Dan S. Bechly  
Joseph P. Benne  
Ralph A. Bennitt Jr.  
Wallace E. Boas  
John F. Bruecker  
Hilmar B. Christianson Jr.  
John J. Cipriano  
Harold Clinton  
Joseph Coel  
John R. Davis  
Jack A. Decker  
Howard M. Eichstaedt  
Sidney Epstein  
John L. Ernst Jr.  
Carl G. Graham Jr.  
Allison C. Grunert  
Donald E. Harper  
William A. Hickman  
Robert Hofmann  
Frederick I. Horton  
Harry M. Kammerling  
Clyde E. Kesler  
Raymond V. Koehler Jr.  
Arnold F. Kohnert Jr.  
Lowell L. Lamberti  
Sheldon J. Leavitt  
Robert W. Lorentz  
James B. Meek  
Erasmo Mendez Jr.  
Clement S. Miller  
Erwin F. Mueller Jr.  
William G. Murphy  
Willis L. Ogden  
Jack A. Pallister  
Neal F. Payden  
Robert H. Randall  
Albert F. Raulin  
Donald L. Renick  
Otto W. Schacht Jr.  
Isaac S. Snyder  
Melvin D. Stromborg  
Mehmet N. Tokay  
Alfred D. Webster  
Robert M. Whitman  
Homer S. Wong  
Frank S. Wylie Jr.  
Dean E. Zumwalt

* Deceased are indicated in italics
John W. Nelson, P.E., (BS 84) has been named regional vice president of the Chicago office of Hanson Professional Services Inc. Nelson joined Hanson in 1999 as a civil engineer. As regional vice president, Nelson will oversee business development and daily office operations. He has 23 years of experience in the engineering industry, serving in leadership capacities such as project manager and client liaison for roadway and tollway clients. He also has served for 15 years as the village engineer in Hillside, Ill.

David L. Peters, P.E., (BS 81, MS 89) joined Hanson Professional Services Inc. in the firm’s West Palm Beach, Fla., office as regional vice president. Peters has more than 30 years of experience in the design and construction industry.

Cynthia K. Tuck, P.E., (BS 82, MS 84) was appointed by California Gov. Arnold Schwarzenegger to the position of Undersecretary of the California Environmental Protection Agency (Cal-EPA). Tuck, of Sacramento, previously served as an assistant secretary for policy at Cal-EPA and as attorney and manager of the State and Bay Area Air Quality committees at the California Council for Environmental and Economic Balance.

Scott Arends, P.E., (BS 96) recently joined Hanson Professional Services Inc. Arends, a water resources engineer, was previously employed with the Illinois Department of Natural Resources, Office of Water Resources.

Kyle D. Armstrong (BS 97) and Bridget Erin Burghart were married Dec. 30, 2006, in Chatham, Ill. Armstrong is employed by the Illinois Department of Transportation as a traffic signals engineer.

Jackie Dearborn (MS 96) is a civil engineer for the United City of Yorkville, Ill.

Darren E. Forgy, P.E., (BS 97) of Hanson Professional Services Inc., was named 2007 Young Engineer of

Nominations invited for alumni awards

If you know of a deserving colleague who graduated from CEE, please request a nomination form for the Distinguished Alumnus Award or the Young Alumnus Achievement Award from Carla Blue, Program Coordinator, 1117 Newmark Lab, 205 N. Mathews Ave., Urbana, IL 61801; fax 217-333-9464, blue1@uiuc.edu. You must fill out the form, but we will assist you as needed. Nominations are due no later than July 15 for consideration for the following year’s awards. Please make sure you make a clear case for the professional achievements and contributions of your nominee. A nominee will be considered for an award when the form is completed and returned by the nominator. Criteria for the awards are as follows:

Distinguished Alumnus Award

This award recognizes professional accomplishments or unique contributions to society of civil engineering graduates. Recipient will have distinguished themselves by outstanding leadership in the planning and direction of engineering work, by administration of major engineering work, by contributing to knowledge in the field of civil engineering, by fostering the development of young engineers, or by uniquely contributing to society. They should be dedicated to the ideals of the profession as evidenced by their contributions to the recognition and promotion of civil engineering activities and professional organizations. CEEAA board members are ineligible until at least two years after their terms have ended. UIUC faculty members are ineligible for at least two years after ending their faculty status.

Young Alumnus Achievement Award

This award recognizes a graduate who has received his or her most recent degree from the University within the past 10 years, with special consideration for those candidates who are 35 or younger. Recipients shall have distinguished themselves in their fields of endeavor and achieved a level of accomplishment significantly greater than that of other recent graduates. Recipients shall have demonstrated one or more of the following: outstanding technical advancement or achievement; design innovation and excellence; enhancement of civil and environmental engineering education; outstanding leadership resulting in significant accomplishments; exemplary service to the profession. Consideration is given to volunteer activities in civic, religious or charitable groups and organizations.
The preeminence of the Illinois masonry research program was evident in June when CEE faculty, students and alumni swept the awards at the 10th North American Masonry Conference, hosted by the University of Missouri at Rolla and held in St. Louis June 3-6. In the international competition, Illinois submissions garnered awards for outstanding conference papers, as well as best papers published in the Journal of the Masonry Society. Illinois papers won five out of the seven awards for outstanding conference or journal papers, and seven out of 13 awards including honorable mention.

An outstanding conference paper award went to Joshua Steelman (MS 06), CEE graduate student, and Daniel Abrams (BS 74, PhD 79), Willett Professor of Engineering, for their paper, “Effect of Axial Stress and Aspect Ratio on Lateral Strength of URM Walls.” Arturo Schultz (BS 8, PhD 86) won another conference award with his paper, “Finite Element Modeling of Slender Post-Tensioned Masonry Walls Subjected to Out-of-Plane Lateral Loading,” coauthored with his graduate student at the University of Minnesota, Jennifer Bean. Can Simsir (MS 00, PhD 04) was awarded honorable mention for his conference paper, “Design Performance of a Mid-Rise Reinforced Masonry Building Subjected to Unanticipated Loads,” coauthored with Anurag Jain, Alexis Dumortier and Gary Hart, Simsir’s colleagues at Weidlinger Associates in Marina del Rey.

Illinois faculty and alumni who won awards for outstanding papers published in the Journal of the Masonry Society over the past three years included Illinois structural engineering Professor James LaFave (BS 86, MS 87) and his graduate student Dziugas Reneckis (BS 02, MS 03), who won a best paper award for their article, “Structural Behavior of Tie Connections for Residential Brick Veneer Construction” (Vol. 23, No. 1). Art Schultz was recognized again with a best paper award for his paper with student J.G. Mueffelman on “Design Considerations for Stability of Transversely-Loaded URM Walls” (Vol. 21, No. 1). Schultz also received honorable mention for another journal paper with the same coauthor on “Elastic Stability of URM Walls Under Transverse Loading” (Vol. 21, No. 1). Still another outstanding journal paper award went to an article based on research funded by the Mid-America Earthquake Center, “Force Variation of Vertical Unbonded Post-Tensioning Tendons in Perforated Masonry Walls” (Vol. 23, No. 1), authored by former CEE graduate student Lawrence Kahn (MS 67) with coauthors Tianyi Yi, Frank Moon, Roberto Leon.

Darren E. Forgy

2000s

Tias Paul (MS 06), a Ph.D. student in the Environmental Engineering and Science area working with Assistant Professor Timm Strathmann, has received a three-year fellowship from the U.S. Environmental Protection Agency’s STAR Program.

Daniel R. Ursino (MS 02) and Karen A. Pfaltzgraff were married April 28. Ursino is a lieutenant and a civil engineer for the U.S. Coast Guard in Miami.

Write home!

Send your news and photos to celeste@uiuc.edu with the subject line, Alumni News.
Railroad alumnus speaks at Grainger

Professor Christopher P. L. Barkan, right, and Chuck Allen (BS 66), the Superintendent of the Chicago Transportation Coordination Office for Norfolk Southern, are pictured in the quad by Newmark Lab in October. Allen spoke at Grainger Engineering Library Oct. 19 as part of the William W. Hay Railroad Engineering Seminar Series, sponsored by Norfolk Southern Corp. Allen’s topic was “Automation of an Archaic Railroad Crossing—the Brighton Park Project in Chicago.” As a CEE student in 1966, Allen won the Ira O. Baker Prize, given to the two top students graduating from the department.

Bylaws Changes

☐ Yes, I accept the proposed changes to the bylaws.
☐ No, I reject the proposed changes to the bylaws.

Comments: _____________________________________________

Mail this form to:
Carla Blue
1117 Newmark Lab, MC-250
205 N. Mathews Ave.
Urbana, IL  61801

If you prefer, you may vote by email instead: blue1@uiuc.edu

Vote: bylaws change

The Board of Directors of the Civil and Environmental Engineering Alumni Association (CEEAA) recently reviewed the association’s bylaws and are recommending a revision to bring the bylaws into accord with current practice. The CEEAA no longer has representation on the Trust Committee of the Civil Engineering Fund. The section below will be stricken upon approval.

Members of the CEEAA are asked to vote on the change. Please see the form at left for voting instructions. For the complete text of the bylaws, view the CEEAA Board of Directors’ handbook online at http://cee.uiuc.edu/alumni.

Text to be stricken:

8. The Trust Committee of the Civil Engineering Fund shall consist of the President (or such person as said President may designate from time to time to act in his absence), the Head of the Department of Civil and Environmental Engineering (or the Associate Head of the Department of Civil and Environmental Engineering in the absence of said Head) who shall serve as Chairman of the Trust Committee, two members of the faculty of the Department of Civil and Environmental Engineering appointed from time to time by the then Head of the Department of Civil and Environmental Engineering, and two alumni of the Civil and Environmental Engineering Department, one of which would be appointed annually by the Executive Finance Committee. The terms of the alumni members shall be staggered and for two years each.
Chi Epsilon

As the Alpha chapter of Chi Epsilon enters the fall of 2007, new and interesting events are under way. With one of the largest initiate classes to date, active members are constantly busy instructing initiates on how to complete their requirements for this special process which has occurred here since 1922.

Our officers are planning various social and service events along with the general meetings for Chi Epsilon initiates, members, professors, and any alumni who wish to get involved with some of the best and brightest that the U of I has to offer. There is always a demand for speakers, alumni sponsorship, mentoring, and employment resource presentations. For more information, email our president, Brian Schertz (schertz2@uiuc.edu). —Adam Tate, Chi Epsilon E.C. Rep

American Society of Civil Engineers

The student chapter of the American Society of Civil Engineers (ASCE) is bringing industry and students together. At our general meetings, civil engineering professionals speak on behalf of their companies about their fields and experiences in their firms. In addition to the general meetings, this semester we have taken a field trip to two Peter Kiewit Sons’ job sites in Chicago, the O’Hare Expansion project and Block 37, a tunnel connections project at Dearborn and Washington.

Another goal of ASCE is to connect civil engineering students with one another through events like Crane Bay Cinema, skydiving, intramural sports, and the Steel Bridge and Concrete Canoe Teams. We are always looking for sponsors to support these two teams to help continue their success, as both have excellent potential to compete at Nationals once again this year. We are also interested in finding alumni to organize field trips or speak at general meetings and other events. For our officers’ contact information, visit the website at www.cee.uiuc.edu. —Mark Dingler, ASCE Secretary

Institute of Transportation Engineers

This year the Institute of Transportation Engineers’ (ITE) student chapter plans to take part in a number of activities, including the ITE Student Forum, an open golf outing, presentations and talks from selected industry experts on transportation engineering, chapter meetings, Engineering Open House, outreach to at least two urban Champaign elementary schools to talk about traffic safety with kids, and a visit to Chicago Traffic System Center. For more information, visit www.cee.uiuc.edu/groups/ite/ or email iteuiuc@yahoo.com. —Godfrey Mwesige, ITE President

American Concrete Institute (ACI)

Since our start in 2003, the student chapter of the American Concrete Institute (ACI) has encouraged student interest and involvement in concrete materials, structures and construction. We host monthly meetings and seminars with speakers from the concrete industry or research fields.

Recent speakers included Gen Long (BS 02, MS 03) of Applied Pavement Technologies; Jack Gibbons of Prairie Materials; Anne Werner (MS 98, PhD 04) of the U.S. Army Corps of Engineers; and Laura Powers of Wiss, Janney, Elstner.

Each semester we send several students to the ACI international conventions, such as the one in Puerto Rico this October, to participate in the student competitions, become involved in committees, and attend technical presentations. Every March we take part in Engineering Open House by helping visitors create a personalized mortar coaster and hosting a high-strength concrete cylinder competition for college students.

At least once a semester, students represent our chapter at ACI-Illinois Chapter meetings or conference events. We have also made posters for display in our concrete lab to describe standard testing procedures for students to reference.

We encourage any alumni involved in either ACI or the concrete construction industry to let us know if they would like to speak at our meetings or to suggest a field trip idea. Visit www.uiuc.edu/ro/acj for contact information. —Amanda Bordelon, President

International Association of Hydraulic Engineering and Research

The student chapter of the International Association of Hydraulic Engineering and Research (IAHR) gathers to share experiences, does special projects, and takes part in IAHR activities such as the biennial congress. Student Chapter activities include research seminars, discussions or workshops; field trips to local hydraulic works; group research projects; trips to IAHR symposia, workshops and congresses; informal collaborative activities with neighboring student chapters; and fundraising efforts. Visit IAHR on the web at www.iahr.org. —Octavio Sequeiros, President

Top photo: Members of the student chapter of the American Society of Civil Engineers went skydiving this year. At left, a young visitor to Engineering Open House 2007 creates a mortar coaster with help from a student member of the American Concrete Institute student chapter.
Sponsored Research

Research is an important part of the mission of the Department of Civil and Environmental Engineering. The many and varied projects of our faculty contribute to knowledge, enhance the education of our students, and improve the practice of civil and environmental engineering. On this page we acknowledge companies and organizations that are currently providing research funding in the department. Listed on these pages are the sponsoring agencies, the faculty members who are conducting the research, and project names.

<p>| AMEC Earth &amp; Environmental Services | Amr Elnashai | St. Louis HAZUS analysis |
| American Concrete Research &amp; Educ. Foundation | John Popovics | A study of static and dynamic modulus of elasticity of concrete |
| Amer Institute of Steel Construction | Jerome Hajjar | Behavior of bolted steel slip critical |
| Armstrong World Industries | William Buttlar | Evaluation of Armstrong flooring tile byproduct for use in hot-mix asphalt |
| Atlantic Richfield Co. (ARCO) | Kevin Finneran | Tert-Butyl alcohol Biodegradation |
| Awara Research Foundation | Timothy Strathmann | Oxidation and removal of pharmaceutically-active compounds |
| BPC Airport Partners | David Lange | The Center of Excellence for Airport Technology |
| Carollo Engineers | Eberhard Morgenroth | Direct fixed-bed biological perchlorate destruction demonstration |
| Caterpillar Inc. | Youssef Hashash | Development of NN based contact detection algorithms |
| Caterpillar Inc. | Erol Tutumluer | Laboratory characterization of stone matrix asphalt compaction |
| Caterpillar Inc. | Erol Tutumluer | Laboratory characterization of the engineering behavior of suncor energy oil |
| Caterpillar Inc. | Junho Song | System reliability assessment for risk-quantified design |
| CDM International Inc. | Amr Elnashai | Management, experts and review only |
| Chaparral Steel | Christopher Barkan | Combined testing and research on the effect of apparent surface flaws |
| Columbia University | Tami Band | Reducing the uncertainties in carbonaceous aerosol emissions |
| Commercial TCPavements Ltd. | Jeffery Roelker | Accelerated testing of thin concrete pavements |
| ExxonMobil Exploration Co. | Marcelo Garcia | Teaching facilities for the ExxonMobil deep-water sedimentary processes |
| ExxonMobil Exploration Co. | Marcelo Garcia | ExxonMobil Exploration Master Agreement |
| GA Institute of Technology | Jerome Hajjar | NEESR II |
| Geophysical Survey Systems Inc. | Erol Tutumluer | Development of GPR based railway track subsurface indices |
| Geosyntec Consultants Inc. | Kevin Finneran | Biodegradation of Nitroaromatic Compounds |
| Illinois State Toll Highway Authority | Yanfeng Duyang | Regional transportation data management for northeast Illinois |
| In-Pipe Technology LLC | Eberhard Morgenroth | Influence of bioaugmentation using in-pipe on sewer processes |
| International Food Policy Research Institute | Ximing Cai | Climate change downscaling algorithms |
| International Waste Water Management Institute | Ximing Cai | Joint IFPRI-IFUSAID |
| Istanbul Technical University | Amr Elnashai | MAEviz for Istanbul buildings |
| Kiewit-Bilfinger Berger AJV | William Gamble | Steel fiber reinforced concrete tunnel liner segment tests |
| Louisiana State University | Gary Parker | Land build model: Mississippi Delta |
| Memphis Light Gas &amp; Water | Amr Elnashai | Non-structural seismic evaluation project agreement No. C1310 |
| Metropolitan Water Reclamation Dist of Greater Chicago | Marcelo Garcia | CFD modeling of settling tanks and pumping stations |
| Metropolitan Water Reclamation Dist of Greater Chicago | Marcelo Garcia | Chicago waterway system environmental modeling (phase I) |
| Metropolitan Water Reclamation Dist of Greater Chicago | Marcelo Garcia | TARP modeling - Phase II of the Calumet TARP system |
| Michelin America Research &amp; Development Corp | Imad Al-Qadi | Development of Predictive Design Models to Determine Pavement Damage |
| Minnesota Pollution Control Agency | Gary Parker | Sediment flux rates in stream channels |
| MWI Americas Inc. | Mark Clark | WRF seawater desalination project |
| NASA | Benjamin Ruddell | Data mining of co-evolving variables |
| NASA | Tami Band | Understanding the atmospheric transformation of anthropogenic aerosol |
| National Science Foundation | Ilmca Pania | Computational modelling of surface tensions in hydrogels |
| National Academy of Sciences | Youssef Hashash | Building capacity in the Pakistani engineering community |
| National Oceanic &amp; Atmospheric Administration | Praveen Kumar | Influence of deep-rooted vegetation environments on climate predictability |
| National Taiwan University | Keith Hjelmstad | National Programs student program with National Taiwan University |
| National Water Research Institute | Mark Clark | NAWRI- Ron B. Linky Fellowship |
| NEES Consortium Inc. | B.E. Spencer | Develop and enhance hybrid simulation infrastructure for NEES community |
| Nippon Steel Engineering Co. Ltd. | Jerome Hajjar | Cyclic axial testing of buckling restrained braces |
| NSF/National Science Foundation | Diego Klabjan | Approximate dynamic programming |
| NSF/National Science Foundation | Tami Band | CAREER: Carbonaceous Particles of Tory Origin |
| NSF/National Science Foundation | Barbara Minsker | Environmental information system for hyposcale in Corpus Christi Bay |
| NSF/National Science Foundation | Feniosky Peña-Mora | Integrated conflict, claim, and dispute avoidance, mitigation and resolution |
| NSF/National Science Foundation | Muruguru Sivapalan | Understanding the hydrologic implications of landscape and climate |
| NSF/National Science Foundation | Feniosky Peña-Mora | CRU-IAD, observation, facilitation and computer support of group interactions |
| NSF/National Science Foundation | Timothy Strathmann | Development of a sustainable catalytic treatment process for perchlorate |
| NSF/National Science Foundation | John Popovics | Development of sensing method for in situ assessment of steel corrosion |</p>
<table>
<thead>
<tr>
<th>Organization/Project</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>Praveen Kumar</td>
<td>Interactions between water, energy and carbon dynamics as predictors</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Mark Rood</td>
<td>Microwave swing adsorption to capture hazardous air pollutants &amp; volatile organic compounds from gas</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Anir Elashai</td>
<td>Multi-scale smart sensing for monitoring civil infrastructure</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>B.F. Spencer</td>
<td>NEESR-SD: Framework for development of hybrid simulation in an earthquake impact assessment context</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Scott Olson</td>
<td>NSEER-SG: Soil improvement strategies to mitigate impact of seismic ground failures</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Anir Elashai</td>
<td>Operations &amp; Maintenance of the NEES Equipment Site, (NEES Consortium/NSF Prime)</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Khaled El-Rayes</td>
<td>Optimizing airport construction site layouts to maximize aviation safety and security</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>John Poponics</td>
<td>Ultrasonic imaging for concrete structural elements</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Feniosky Peña-Mora</td>
<td>Workshop, key research and education issues in construction engineering and management</td>
</tr>
<tr>
<td>Office of Naval Research</td>
<td>Marcelo Garcia</td>
<td>Acquisition of equipment for large oscillating water-sediment tunnel (LOWST)</td>
</tr>
<tr>
<td>Office of Naval Research</td>
<td>Marcelo Garcia</td>
<td>Morphodynamics of Ripples in Benthic Boundary Layer Flows</td>
</tr>
<tr>
<td>Office of Naval Research</td>
<td>Marcelo Garcia</td>
<td>Numerical modeling and large-scale laboratory experiments on scour-burial of non-cylindrical mines</td>
</tr>
<tr>
<td>Pennsylvania State University</td>
<td>Praveen Kumar</td>
<td>Workshop: Observatories for the critical zone network</td>
</tr>
<tr>
<td>Portland Cement Association</td>
<td>James Lafave</td>
<td>PCA Education Foundation Fellowship Award</td>
</tr>
<tr>
<td>Research Foundation of SUNY</td>
<td>B.F. Spencer</td>
<td>Development of graduate models</td>
</tr>
<tr>
<td>Sandia National Laboratory</td>
<td>Afif Marouf</td>
<td>Sandia methods for model reduction</td>
</tr>
<tr>
<td>SemMATERIALS L.P</td>
<td>William Buttlar</td>
<td>Improvement of Koch Material Company’s STRATA® Reflective Crack Repair System (STRATA RCRS)</td>
</tr>
<tr>
<td>Stanford University</td>
<td>Jerome Hajjar</td>
<td>NEESR-SC: Controlled Rocking of Steel-Framed Buildings</td>
</tr>
<tr>
<td>Tensar Earth Technologies</td>
<td>Erol Tutumluer</td>
<td>Tensar mechanistic based design for geosynthetic reinforced flexible pavement</td>
</tr>
<tr>
<td>Transportation Research Board</td>
<td>Imad Al-Qidi</td>
<td>Test methods and specification criteria for mineral filler used in HMA</td>
</tr>
<tr>
<td>Transportation Technology Center Inc.</td>
<td>Grzegorz Banas</td>
<td>Fatigue testing of welding rails</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>James Lafave</td>
<td>Innovative applications of damage tolerant fiber-reinforced cementitious materials</td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>William Buttlar</td>
<td>Investigation of Low Temperature Cracking in Asphalt Pavements</td>
</tr>
<tr>
<td>ExxonMobil Exploration Co.</td>
<td>Gary Parker</td>
<td>Long runout turbidity currents</td>
</tr>
<tr>
<td>ExxonMobil Exploration Co.</td>
<td>Gary Parker</td>
<td>Transport of gravel by turbidity currents</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>Daniel Kuchma</td>
<td>NEESR-SG: Seismic behavior, analysis &amp; design of complex wall systems</td>
</tr>
<tr>
<td>Univ of Wisconsin-Madison</td>
<td>James Long</td>
<td>Comparison of three different methods for determining pile bearing capacities</td>
</tr>
<tr>
<td>Université Laval</td>
<td>Gary Parker</td>
<td>Studies of tailings disposal facility, Iron Ore Company of Canada</td>
</tr>
<tr>
<td>U.S. Air Force</td>
<td>Mark Rood</td>
<td>Steady-state desorption of ACFC adsorption/desorption system</td>
</tr>
<tr>
<td>U.S. Air Force Office of Scientific Research</td>
<td>B.F. Spencer</td>
<td>The world forum on smart materials and smart structure technology</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Mark Rood</td>
<td>Development of emission factors for dust generated by unique military activities</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Eberhard Morgenroth</td>
<td>Evaluation of the performance of hydrogen-enhanced reactor treating perchlorate</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Anir Elashai</td>
<td>Catastrophic event planning scenarios: New Madrid seismic zone earthquakes</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Mark Rood</td>
<td>Digital opacity method development and certification</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Eberhard Morgenroth</td>
<td>Hydrogen enhanced reactor development</td>
</tr>
<tr>
<td>U.S. Army CERL</td>
<td>Liang Liu</td>
<td>Identification of construction information required for facility operation</td>
</tr>
<tr>
<td>U.S. Army Center for Environmental Technology</td>
<td>Mark Rood</td>
<td>Vapor recovery by electrothermal swing adsorption</td>
</tr>
<tr>
<td>U.S. Civilian Research Development Foundation</td>
<td>Christopher Barkan</td>
<td>Diagnostic device for rolling stock wheel pairs’ and rails’ wear and damage</td>
</tr>
<tr>
<td>U.S. Department of Agriculture</td>
<td>Charles Worth</td>
<td>Gene expression and genetic adaptation for herbicide degradation in a model dynamic soil system</td>
</tr>
<tr>
<td>U.S. Department of Education</td>
<td>Charles Worth</td>
<td>A program for enhanced Ph.D. quality and diversity in environmental engineering at UIUC</td>
</tr>
<tr>
<td>U.S. Dept of Energy</td>
<td>Charles Worth</td>
<td>Influence of wetting and mass transfer properties of organic chemical mixtures</td>
</tr>
<tr>
<td>U.S. Dept of Energy</td>
<td>Albert Valocchi</td>
<td>Modeling multiscale-multiphase-multicomponent subsurface reactive flows</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency</td>
<td>Mark Clark</td>
<td>EPA Fellowship</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency</td>
<td>Eberhard Morgenroth</td>
<td>EPA fellowship for Rachel Dimock</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency</td>
<td>Tami Bond</td>
<td>Proposed Tasks to Support EPA Inventory and Mitigation Analyses of Black Carbon and Organic Carbon</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency</td>
<td>Timothy Strathmann</td>
<td>U.S. Environmental Protection Agency Fellowship for Tias Paul</td>
</tr>
<tr>
<td>U.S. Federal Aviation Administration</td>
<td>Edwin Herricks</td>
<td>CEAT sponsored activities related to the deployment of bird radars at JFK and SEA</td>
</tr>
<tr>
<td>U.S. Federal Aviation Administration</td>
<td>David Lange</td>
<td>Center of Excellence for Airport Technology O’Hare International Airport</td>
</tr>
<tr>
<td>U.S. Federal Aviation Administration</td>
<td>Edwin Herricks</td>
<td>Deployment and operation of FOD detection radar</td>
</tr>
<tr>
<td>U.S. Federal Aviation Administration</td>
<td>Edwin Herricks</td>
<td>GIS, hazard assessment, and hazard visualization as components of wildlife management programs</td>
</tr>
<tr>
<td>U.S. Federal Aviation Administration</td>
<td>David Lange</td>
<td>Work program FY2006 cooperative agreement 05-C-AT-UIUC (Core FAA)</td>
</tr>
<tr>
<td>U.S. Geological Survey</td>
<td>Scott Olsson</td>
<td>Instrumentation of structures for system response monitoring</td>
</tr>
<tr>
<td>Virginia Polytechnic Institute &amp; State University</td>
<td>Erol Tutumluer</td>
<td>Application of LADAR in the analysis of aggregate characteristics</td>
</tr>
</tbody>
</table>
Corporate and Foundation Donors

The Department of Civil and Environmental Engineering is proud of its strong ties to industry and practicing engineers. We gratefully acknowledge the corporations, foundations and professional associations that contributed to CEE from July 1, 2006, to June 30, 2007. This list includes organizations that made gifts to the department, as well as those who matched gifts made by their employees.

Abbott Laboratories Fund
Abbott Laboratories
Accenture Foundation, Inc.
Alcoa Foundation
Alfred Benesch & Company
Alliant System's Community Investment Foundation
AMEC Earth & Environmental Inc.
Ameren
Illinois Chapter, American Concrete Pavement Association
American Concrete Research and Education Foundation
American Waterworks Association Research Foundation
Anheuser-Busch Foundation
Apple Junction Design Services PLC
Applied Pavement Technology Inc.
Archer Daniels Midland Company
Association of American Railroads
AT&T Foundation
Atlantic Richfield Company
Barr Engineering Company
BASF Construction Chemicals LLC
Baxter & Woodman Inc.
Bechtel Foundation
BNFS Railway Company
The Boeing Gift Matching Program
Bollinger, Lach & Associates Inc.
Bowman Barrett & Associates Inc.
BP Foundation
BPC Airport Partners
Burns & McDonnell Foundation
BWXT Y-12 LLC
Cameron-Cole LLC
Canadian National/Illinois Central
Caterpillar Foundation
Caterpillar Simulation Center
Caterpillar Inc.
Center for Toxicology and Environmental Health, LLC
Century Group Inc.
Cera Tech Inc.
Chevron
CH2M Hill Foundation
Clean Air Task Force
Computer Associates International Inc.
Consolidated Inc.
Consolis Technology Oy Ab
Laboratory of Materials Mgmt.
Crawford, Murphy & Tilly Inc.
CSX Transportation Inc.
CTL Group
Damon S. Williams Associates LLC
David & Lucile Packard Foundation
Directed Technologies Drilling Inc.
D.J. Nyman & Associates
Dudek Consulting PC
D3 Technologies Inc.
E. Khosrogi Industries LLC
Eagle Construction and Environmental Services LP
Earth Tech
Edward B. Finkel Associates PA
Consulting Engineers
Ell Lilly & Company Foundation
ERM Inc.
ENSIR International
ERM-Rocky Mountain Inc.
Environmental Works Inc.
EPSA LABCO Ingenieros Consultores
Erie Engineering
Ernst & Young Foundation
ExxonMobil Biomedical Sciences Inc.
Exxon Mobil Corporation
Exxon Mobil Foundation
ExxonMobil Retiree Program
Advisor Charitable Gift Fund
FMCTechnologies Inc.
Gannett Fleming Companies
Gaviolin Foundation
GE Foundation
General Motors Corporation
GeoSyntec Consultants
Golder Associates
Hanson Professional Services Inc.
Hatch Mott MacDonald
HDS Engineering Inc.
Henry G. Russell Inc.
Henry, Meisenheimer, & Gende Inc.
Hershell Gill Consulting Engineers Inc.
Iowa Asphalt Pavement Association
Illinois Association of County Engineers
Illinois Chapter Inc. American Concrete Pavement Association
Illinois Ready Mixed Concrete Assoc.
Intech Consultants Inc.
International Waste Water Management Institute
Jacobs Engineering Group
Jewish Federation of Metropolitan Chicago
The Johns Hopkins University
Johnson Equipment LLC
J3 Management Consultants Inc.
Kennedy-Jenks Consultants Inc.
Khafra Engineering Consultants
Kiewit Western Company
Kiewit-Bilfinger Berger A Joint Venture
Lawrence R. Wlezien Inc.
Lockheed Martin Corporation
Marathon Petroleum Company LLC
Marshall Miller & Associates Inc.
Michelin Americas Research & Development Corporation
National Pork Board
Norfolk Southern Corporation
Northrop Grumman Foundation
Northwestern University
Occidental Petroleum Charitable Foundation
The O’Neil Foundation
O’Neil Industries Inc.
Pace Analytical Services Inc.
Pilote Construction Inc.
Poplar Smoggpros
Prairie Material Sales Inc.
Precast/Prestressed Concrete Institute
Primera Construction Group LLC
The Procter & Gamble Foundation
The RJN Foundation Inc.
RJN Group Inc.
RM CAT Environmental
S and R Company
Samuel H. Carpenter Engineering
SC Johnson Fund Inc.
Schinzel Foundation Company
Severe Trent Laboratories Inc.
Shell Oil Company Foundation
Sjostrom & Sons
Soil and Materials Engineers Inc.
SonTek/YSI Inc.
Southern Petroleum Laboratories Inc.
Stark Materials Inc.
State Farm Companies Foundation
Stokes Financial Investments
Stone Energy Corporation
Strand Associates Inc.
STS Consultants Ltd.
Teklab Inc.
Tensar Earth Technologies Inc.
Tidewater Inc.
Topo Photo Corp.
Transportation Technology Center Inc.
TranSystems Corporation
TRC Environmental Corporation
Turner Corporation
University of Minnesota McNamara Alumni Center
UIDP LLC
URS Corporation
US Ecology Texas LP
Versabar Inc.
Walker Parking Consultants/Engineers Inc.
The Walt Disney Company Foundation
The Watkins Family Foundation
Weyerhaeuser Company Foundation
Wiss, Janney, Elstner Associates Inc.
Woolpert Inc.
3M Foundation Inc.

Visit CEE on the web at http://cee.uiuc.edu
The Department of Civil and Environmental Engineering thanks its alumni and friends who have made it possible for our students and faculty to pursue their education and research in one of the best departments in the country. We could not do it without your support.

Donors to any fund in the Department of Civil and Environmental Engineering from July 1, 2006, to June 30, 2007, are listed below. We strive to make these lists as accurate as possible. If your name is listed incorrectly or omitted, please accept our apologies. For corrections or further information about making a gift, please contact John E. Kelley, jekelley@uiuc.edu, (17) -510. Gifts made at the College of Engineering level will be recognized in the College of Engineering annual donor report.

Individual Donors

The Department of Civil and Environmental Engineering thanks its alumni and friends who have made it possible for our students and faculty to pursue their education and research in one of the best departments in the country. We could not do it without your support.

Donors to any fund in the Department of Civil and Environmental Engineering from July 1, 2006, to June 30, 2007, are listed below. We strive to make these lists as accurate as possible. If your name is listed incorrectly or omitted, please accept our apologies. For corrections or further information about making a gift, please contact John E. Kelley, jekelley@uiuc.edu, (17) -510. Gifts made at the College of Engineering level will be recognized in the College of Engineering annual donor report.

President’s Council
The department thanks those who have joined the University of Illinois President’s Council with a commitment of $25,000 or more. Listed below are members who joined before June 30, 2007, and who have given to the department.

Friends
William A. and Marjorie G. Bardeen
Barbara Boulware Carpo
Robert Eisner Jr. and Elizabeth Robinson Eisner
Mary E. Engelbrecht
Anna Allen Fansworth
William R. and Shaum P. Gaston
Eugene Grandone
Watson A. and Celeste F. Healy
Morris L. Hecker Jr. and Martha Z. Hecker
Edwin E. and Susan L. Herricks
James C. and Arlys R. Hunt
Ralph E. Kelly and George Anne Oliver Kelly
Jon C. and Judith S. Liebman
Paul M. and Susan A. Mayfield
Richard A. and Joan F. Newmark
William E. O’Neil
Charles E. and Janice C. Olson
Walter W. and Patricia A. Rust
Vern and Jeannie Snoeyink
David K. and Gina M. Stark
A. Robert and Mary K. Twardock
Albert J. Valocchi and Anne H. Silves
Yi-Kwei and Irene Yu-Yen Wen
Ruth Chao Yen

1915
Carl A. Metz

1922
A. L. Ralph Sanders

1923
Edward Salton Trust
Frederick W. Shappert

1924
Emmett C. Hartmann

1925
Harvey L. Goodell

1927
William K. Brown
Raymond L. Moore

1928
W. Leighton Collins

1929
Ralph L. Palmer

1930
Herman H. Jost Jr. and Marqueta L. Jost
J. Wallace Miller

1931
Edwin C. and Margaret L. Franzen

1932
Glenn E. Hodges Estate
William P. Jones Jr.
Harry F. Lovell Trust
Ralph L. Palmer

1934
Herman H. Jost Jr. and Marqueta L. Jost
J. Wallace Miller

1937
Richard Jaccoud Estate
Carl W. Muhlenbruch

1938
Vernon Glenn and Margaret B. Rathsam

1939
Edward S. and Elsie T. Fraser
Chester F. Siess Estate
Harold J. Spander Estate
Frank K. and Alice L. Vescan

1940
John C. and Mary M. Houbolt
Nick and Addie Pokrajac
Louis W. Schum

1941
Spencer F. and Maev C. Brown
Benjamin H. and Ruth J. Janda
Eugene T. and Emma K. Simonds

1942
Robert L. and Gertrude A. Clapper
Harold R. and Alice L. Sandberg

1943
Louis A. and Clara M. Bacon
Sidney and Sandra Berman Epstein
Otto W. Schacht Jr. and Otto W. Schacht

1946
Robert J. and Stella F. Mosborg
Wayne C. and Eleanor H. Teng
Benjamin E. and Roberta R. Weeks

1947
Oliver H. Briggs Jr. Estate
John W. and Catherine Briscoe
Charles R. and Shirley H. Fage
Robert E. and Shirley M. Hamilton
Walter E. and Sue R. Hanson
Hebert O. and Mary L. Ireland

Civil and Environmental Engineering Alumni Association—Winter 2008  37
Joshua L. Merritt Jr. and Eleanor W. Merritt
Thomas K. Liu and Olive M. Chen-Liu
Jerry J. Felmley and Susan Felmley
Don U. Deere
M. T. and Marlene Davisson
Eli W. and Georgia A. Cohen
Thomas J. Byrne and Jane Armstrong

1955

James D. and Wylma M. Bergstrom
Thomas J. Byrne and Jane Armstrong
Ellie W. and Georgia A. Cohen
M. T. and Marlene Davisson
Don U. Deere
Jerry J. Felmley and Susan Felmley
Thomas K. Liu and Olive M. Chen-Liu
Joshua L. Merritt Jr. and Eleanor W. Merritt

1956

Robert H. and Donna J. Andersen
Donald E. and Arlene S. Eckmann
Gerald R. and Audrey G. Olson
Stanley T. Rolfe and Phyllis Williams Rolfe
Robert A. Sachs

1957

Alfredo H. and M. Mae Ang
Ronald C. and Margaret M. Watkins
James T. Yao

1958

W.Gene and Lynd W. Corley
Guy E. and Babette Jester
Benjamin A. Jones Jr.
and Georgann Hall Jones

1959

Neil Middleton and S. Ann Hawkins
Thomas C. H. and Patsy Lum
Robert E. Morgan
Joseph H. and Jean R. Pound
Donald L. and Bertha Rissling

1960

Ronald D. and Mary Jane Crowell
Banny J. and Poulise G. Dempsey
Lyle W. and Nancy M. Hughart
Richard W. Miller
and Janet L. Pritchett Miller
Norman C. and Sharon L. Piordan
Robert S. and Helen J. Sherry

1961

Richard J. and Sylvia C. Eckhardt
William A. Huntington Jr. and Delores Huston
Eugene R. and Elaine A. Wilkinson
Harry K. and Carol A. Windmill

1962

Joseph P. and Mary Stuart Colaco
John S. Endicott
George M. C. and Ann Fisher

1963

Edward J. and Norma G. Gording
Charles Robert Marek
and Sunny L. Suhr Marek

1964

Woodrow C. Chenaudo Jr. and Minam I. Chenault
William D. and Lisa H. Snyder
Larry M. and Rose Marie Sur

1965

Norman Allen and Lee Ann Dobbs
Richard E. Hulka and Bonnie Rambom Hulka
Paul D. and Barbara C. Koch
Frank J. and Jeanette Nesieder
Bert E. and Cathy J. Newton
David A. Pecknold
Marvin A. and Karen K. Wollin

1966

Patrick S. and Millie L. Au
Victor C. Corsetti
Arthur R. Jensen Jr. and Judy B. Jensen

1968

Donald G. and Delia M. Beiser
Thomas B. and Jeannie M. Berns
Augusto Rodriguez Gallant
Stephen R. and Sally A. Kannaka
Robert C. and Flo Anne O'Brien

1969

Richard J. Erickson
Clement C. Lee and Ellen Liaw Lee

1970

Douglas J. and Jean Ratty Chidley
Joseph M. and Patricia A. Kaiser
Albert Y. C. Wong and Fermaquina Chan

1971

James L. Willmer

1972

Steve R. and Lynn L. Riesshley
Don L. Willmer

1973

Michael A. Burson and Gloria Devacht Burson
Ronald W. and Lois T. Crockett
Sergio Satchi and Rosemary Pecori

1974

Muqel A.C. and Nora E. Andraada
Phillip E. and Lena K. Borrowman
James J. Brown
Richard Chamouson Jr. and Helen A. Chamouson
Thomas L. and Sue C. Hammla
Gerald E. Diunbury

1975

Robert W. and Andrea C. Casick
Robert H. Dodds Jr. and Deana Bland-Dodds
John A. Frenheufser

1976

Nancy L. Galvin

1977

Perry C. and Linda S. Hendrickson

1978

John P. and Mary Ann Gomme
Gary L. and Susanna B. Franzon
John E. and Barbara A. Khachaturian
Jeffrey C. Schneider
Damon S. Williams

1979

Thomas A. and Suzanne M. Beck
Bryan D. and Kathy M. Wesselinick

1980

William F. Baker
Cindy L. Dahl
Tracy K. and Kathy P. Ledin
David J. Stoldt and Constance S. Wright

1981

Clarke and Karen P. Lundell

1982

Victor C. Corsetti
Patrick S. and Millie L. Au

1983

Richard F. and Elizabeth B. Cavagnall
Richard D. Payne
Larry C. and Rhonda S. Wesselink
Kathryn A. Zimmerman

1984

J. Kevin Roth

1985

James P. and April Messmore

1986

David G. and Janet S. Peshkin

Dean's Club

The department is honored to acknowledge members of the Dean's Club of 2006-2007. Listed below are those who gave $500 or more to CEE from July 1, 2006, to June 30, 2007.

Friends

William A. and Marjorie G. Bardeen
Anna Allen Farmsworth
Eugene Grandone
Shirley M. Hamilton
Moreland and Nancy Henin
David A. and Rose R. Lange
Paul M. and Susan A. Mayfield
William E. O'Neill
John W. Peterson and Wendy A. Olson
William C. Schindler
David A. and Gina M. Stark
Eleanor H. Teng
Albert J. Valocchi and Anne H. Silvis
Timothy J. and Lisa Wallender
Ruth Chao Yan

1932

Harry F. Lovell Trust

1942

R. Lesoy and Mary H. Hulube
Harold R. and Alice L. Sandberg

1947

Oliver H. Briggs Jr. Estate
Walter E. and Sue R. Hanson
Herbert D. and Mary L. Ireland
Naribe and Maribe Khachaturian
William L. Randolph

1948

Melvin and Theda Febeche
John R. Thomason Estate
Nicholas A. and Carol N. Well

1949

Gordon B. and Monaee Balymrute
John B. and Barbara B. Jung
1954
Ford E. Anderson Jr.
Robert A. Fosnaugh
Michael P. Gaas
John C. Guillou
Paul A. Kuhn
Max H. Long
Michael Zihal

1955
Thomas J. Darcy
Howard Y. Fukuda
Ronald A. and Lois Westhuff

1956
Robert W. Bein
David W. Clark
John H. Cousins USA
Everett E. McEwen
Van A. and Margaret A. Silver

1957
K. W. Derby
Ralph A. Eastley Jr.
German R. Gurfinkel
Mickey Kupperman
Wallace W. Sanders
Virgil A. Wortman

1958
John M. Brandt
Robert L. Gende
Frank A. Perry Jr.
William H. Walkes
Tu-Wing Yong
Ralph H. Yunke

1959
Robert L. Dinene
John A. Djerf
John A. Gray
William T. Hanna

1960
Lester D. Bacon
John R. Bolden
Wilbur C. Buchett
Barry J. Dempsy
John M. Healy
Wen-Hsiung Huang
Roy E. Otson
E. Douglas Schwantes Jr.
Robert S. Sherry
Marshall R. Thompson

1961
Harry M. Horn

John A. Kuske Jr.
Charles W. Larsen
Robert J. Wendler

1962
J. Dewayne Allen
Ned H. Burns
Gerald W. Chase
Bing C. Chiu
Larry G. Hobson
James D. Jusi
Darrell G. Lohmeier
Stephen J. Madden III

1963
Robert L. Almond
William Keutzgans
David M. Lee
Allen N. Reeves

1964
Jerald R. Adal
Larry M. Campbell
Robert L. Carter
Charles B. Kenison
Dennis R. Lagierquast
James R. Levey
Kenneth G. Nolte
Richard L. Ruddell
Kenneth R. Turnstall
Richard A. Wiseman

1965
Thomas L. Bobbien
Michael T. Doering Jr.
Dennis R. Pipala
Raman K. Raman
Clarence R. Warming

1966
Danny N. Bunness
Marvin E. Crivelli
Paul David Ellis
Lawrence W. Wieszen

1967
James J. Adrian
Harold L. Gotchall
Lonnee E. Haefner
David M. Kollmeyer
Harry J. Woods Jr.

1968
Alexander D. Beattie
Thomas F. Hintz
Donald F. Meinheer
Joe E. Rosenstiel Jr.

1969
Harold T. Brown
Alan B. Butler
Alfred C. Kalls
Arthur J. Loebach Jr.
Gary R. Marine
Kenneth M. S. Mark
Michael W. Shilton

1970
Larry A. Cooper
Theodore M. Denning
Roger R. Fitting
Douglas A. Fourth
Robert B. Hughes
F. Jay Lindhery
Stephen M. Magelli
William E. McClure
Earl A. Schroeder

1971
Gregory D. Cargill
Robert S. Gurato
Willard Charles Greer Jr.
Robert W. Hahn
Walter S. Kos
Edmund F. Macinn Jr.
Dennis D. Niehoff
Robert E. Wiggins
Lee Schenerbach
Lyle Duane Yockey

1972
Robert J. Andrews
Roy McHale Armstrong
Larry R. Bellsisino
James A. Hanlon
Kevin J. Kell
George F. Meister
Joseph A. Reichle
Samuel J. Winfrey

1973
Charles Barenfanger
Martin G. Beuhler
Jeffrey E. Lamb
Dennis D. Liner
Clinton C. Mudgett
Sergio ‘Satch’ Pecori
Leon H. Siekerka
Michael A. Stanish
James K. Wight
Theodore R. Williams

1974
G. Tim Bachman
Timothy P. Brabets
James J. Brown
Robert T. Brummond
Jose R. Donan
Kent R. Gosner
Edward C. Gray
Daniel A. Guin
Richard A. Guinn
Patrick W. Healy
Bally J. Murphy
Gary S. Nichpon

1975
John V. O’Halleran
Gary A. Rogers
Allen J. Storn
Robert H. Wecklens
Patrick F. Wilbur

1976
Dennis B. Bechmann
Dennis J. Berinot
Paul H. Boening
Dale E. Book
James T. Bravetian
Armin Der Kuselamr
Dennis W. Drescher
Michael J. Koob
Richard W. Liesle
Mark E. Meranda
Michael D. Nickle
Terence L. Schalddel

1977
Philip E. Dekemper
David L. Dunn
Gary W. Ehrler
Douglas W. Fene
Bruce R. Heins
Bradley G. Holmberg
Jack H. Kus
James A. Kus
Dietmar Scheel

1978
Lynne Ellis Chicoine
Louis H. Dixon
Mary L. Miller
John R. Wolosick

1979
David W. Berg
Patrick K. Callahan
Thomas E. Havenar
Delph A. Gustitus
Randall R. Ackerman
David W. Rydeen

1980
Paul M. Street
Linda G. Schub
Thomas E. Havenar
Patrick K. Callahan
David W. Berg

1981
Ronald J. Boehm
Mark D. Bowman
David D. Davis
William L. Dritz
Stephen L. Johnson
Thomas A. Jones
Clarke Mundel
Enrique C. Marisch
Ronald W. Reich
Joseph Scarpelli
Martin L. Tellalain

1982
Thomas E. Doebtele
Richard M. Labrange
James M. Nau
Donald J. Nelson
Thomas S. Palansky
Ronald J. Roman
David W. Snyder
John A. Worely
David K. Wuestefisch

1983
Robert E. Basler III
Richard F. Cavenaugh
William T. Grisoli
Stanley Stephen Huang
Richard J. Lunes
Benjamin B. Martin
David E. McLeary
Brian E. Peck
Katharine E. Smith
R. Kevin Tillois
Larry C. Wescoclin

1984
Randall R. Ackerman
Delph A. Gustitus
Paul J. Kiggenston
Theodore K. Rothschild
David W. Rydeen
John A. Worely

1985
Charles R. Conrad
Michael J. Grinnin
David D. Greunke
Kathleen T. Hall
Melissa A. Kehoe
William A. Ruchford
Michael F. Slavish
Richard P. Sprague
Gerald F. Voigt

1986
John S. Fraser
James M. LaForge
Andrew J. Quinoss
Karim A. Valimohamed

1987
Flora A. Calabrese
Stephen J. Clark
Bhushan Hapchini
Kevin W. Clennell
Timothy W. LaGrow

Visit CEE on the web at http://cee.uiuc.edu
Contributors
The department gratefully acknowledges the Contributors of 2006-2007. Listed below are those who gave up to $100 to CEE from July 1, 2006, to June 30, 2007.

Friends
Marsha K. Bridle
William G. Buntar
Artemie L. Cowan
Rayanne D. Cupps
Kathy E. Curtis
Mark E. Dixon
John L. Eberly
Ann Salah Elshaih
Mary E. Engelbrecht
Larry A. Fahnesteck
Cheryl A. Gantz
Jamshid Ghaboussi
Aaron Greenberg
Jerome F. Kaiser
Carole S. Hand
Luella R. Hebele
Kathy Hepler
David L. King
Glen H. Lafenhagen
Flora Landwehr
Jon C. Lieberman
Benito Jose Marin
Arif Masud
Brian S. Minsker
Ahmed Muhmeden
Virginia J. Mottersna
Ruth E. Pembroke
Rhonda J. Powell
Richard D. Pimmell
Larry D. Roberts
Rose Robertson
Murugesu Swagalan
Elizabethe Anne Small
Joyce M. Snider
E. Stefanie Strathmann
Leslie J. Struble
Mark A. Vandre
Barbara J. Lechner Watson
Mary V. Webber
Yi-Kwei Wen
Arnold R. Wieczorek
Ron Winkler
Robert F. Wood

1938
Charles E. Carter
James M. Robertson
1941
Robert L. Miller
1943
William A. Hickman
1945
Lloyd W. Weller
1947
John G. Bedford
Chester C. Kohl

Wilho E. Williams
1948
Martin J. Sebrasse
1949
John D. Haithwahter
Walter L. Keurn
William A. Parsons
Edward R. Perske
1950
Paul W. Olinebell
Robert G. Currie
Philip G. and Kathryn L. Dierstein
Fred O. Gilbertson
Maria G. Suarez
1951
George M. Bayer
Neil M. Denko
Dean R. Felson
Norman M. Lucas
Wayne V. Miller
John W. Ratzi
Robert L. Winkler
1953
John W. Witters
1954
Leo R. Divita
1955
William J. Mebes
Robert E. Oglesby
Jack E. Parker
Stanley L. Paul
1956
John F. Dieker
Robert E. Gates
Robert G. Grulke
Gregorio Hernandez PhD
Miroslaw Noyzdzewski
A. Keith Stonecipher
1957
Robert C. Brozio
Samuel S. Doak
Alexandar E. Scalzitti
1958
Allan E. Anderson
Richard J. Beck
Richard A. Davino
Robert C. Fory
Benjamin A. Jones Jr.
1959
Raymond A. Baum
Chunduri V. Chelapati PhD
Walter A. Von Riesemen
1960
Harold L. Abramowsk
James H. Alkman
Ray H. Anderson

To arrange your gift or pledge, contact John Kelley, Director of Development (217) 333-5120; jekelley@uiuc.edu.
Old Masters
Engineering giants of the department’s history

Ellis Danner
1907-2001
Educator, expert in transportation management and pavements

By William J. Hall (MS 51, PhD 54)
And John D. Haltiwanger (MS 49, PhD 57)
Professors Emeritus of Civil Engineering

Professor Ellis Danner was noted for his early studies of the effects of soil types and characteristics in the design and construction of pavements, leadership in the management of professional and technical transportation projects and personnel, and his excellent teaching abilities.

Born in Astoria, Ill., on March 4, 1907, Danner graduated from the U of I in 1930 with a bachelor’s degree in Railroad Civil Engineering. He was Salutatorian and winner of the Bronze Tablet in 1929. In 1949 he received an M.S. degree in Civil Engineering with a concentration in highways.

After graduation in 1930, Danner joined the Illinois Division of Highways, predecessor to the Illinois Department of Transportation (IDOT), in the Peoria District. He soon became the Soils and Research Engineer. He continued his work there until 1940 when, being a Reserve Officer, he was called to active duty in the U.S. Army. He held various military posts, including U of I Reserve Officers Training Corps instructor from 1940 to 1943. He concluded his service as a staff officer in the U.S. Armed Forces Western Pacific in the Philippines from 1945 to 1946. After WWII he continued his close association with the Army and held various and extended military positions, retiring as a lieutenant colonel in 1967. The Federal Highway Administration then appointed him a member of the National Defense Executive Reserve Board, on which he served for 14 years.

Upon discharge from active duty in 1946, he joined the faculty of the Civil Engineering Department at the U of I and continued in this position until his retirement in 1974, when he was appointed to Emeritus status.

From 1963 until his retirement, Danner was a public member and secretary of the Illinois General Assembly’s Illinois Transportation Study Commission. This commission was responsible for the first major and comprehensive study of the Illinois highway infrastructure, which determined the state’s highway needs and led to priority settings of highway projects. In response to a shortage of trained personnel for IDOT, Danner developed the Highway Technician Training Program in 1957 at the U of I. This project trained a large number of people who helped make possible the design and construction of the Interstate Highway System.

In 1951 Danner was instrumental in the establishment of the Illinois Cooperative Highway and Transportation Research Program. This program was responsible for the conduct of transportation-related research by the U of I and IDOT. Danner was the director of this program, which involved the CE department as well as several other U of I academic departments, from its initiation until his retirement.

Danner’s research was primarily in the areas of highway administration and management of professional and technical personnel, project management and pavement materials, including composite materials, stabilization of soils and pavement properties. He was considered to be an excellent teacher and developed several new transportation courses. Many of his students became prominent transportation engineers both in practice and at universities.

He was a member of many technical societies, including the National Society of Professional Engineers, the American Road Builders Association, the Transportation Research Board, the American Society of Civil Engineers and the U.S. Army Reserve Officers Association, and was a member and chair of dozens of major technical committees within these organizations. Within the University, he also planned and conducted many workshops for the training of professionals, served as adviser on transportation-related issues on the campus, and published more than 20 significant publications.

Danner was quite active in community life. In 1959 he was elected a member of the first City Council of Champaign and served as councilman until 1965. He was chairman of the city’s long-range street and road study commission which planned the development of Champaign’s streets. After retirement he continued to be active in politics, the U of I Alumni Association, and as President of the Sun City, Ariz., Homeowners Association.
