

ARIZONA Civil View

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Fall 2011

Professor's Innovation Continues in His Retirement

After a 28-year career at the University of Arizona, Professor Mohammed (Mo) Ehsani retired in December 2009 to devote his full attention to his business, QuakeWrap Inc. Dr. Ehsani continues his relationship with the university as an emeritus professor and serves the department in various volunteer positions. Almost 2 years after his retirement, we asked Dr. Ehsani to reflect back on his time at the UA. One notable memory he had while teaching was during his first summer here, when he was 28 years old. He had taught a concrete design course and it was the last day of exams when he heard a group of students talking about going tubing on the Gila River. The group of students was nearly his age so Ehsani went with the group. "It was a fun day out there, to celebrate the end of the semester," Ehsani said. "It was a chance to see the nice scenery of Arizona."

Ehsani explained that his major impetus for leaving the University was that QuakeWrap was a byproduct of his research on fiber-reinforced polymer that he initiated almost 20 years ago; he felt it was his "brain child." He also felt lucky to have developed a technology that could be put into use helping people around the world. After spending nearly three decades in the department, he felt the timing was right to spend the remainder of his career at QuakeWrap.

The idea of QuakeWrap emerged in the late '80s, from research with current UA professor, Dr. Hamid Saadatmanesh, on the use of composite materials. Later, the 1994 Northridge earthquake with a measured magnitude of 6.7 occurred in Los Angeles. It destroyed many buildings and damaged even more. Ehsani had CE friends in California who wanted to use



Dr. Mo Ehsani with carbon and glass SuperLaminate™

the technology on the damaged buildings. Ehsani gladly helped them and ended up creating the company later that year.

QuakeWrap Inc. now has over 20 employees plus sales representatives around the world. The main office is located in Tucson and a second office is in Hermosillo, Mexico. QuakeWrap offers turnkey solutions to customers: customers come to the company with a problem they don't know how to fix and the company solves the problem with its own uniquely made materials. QuakeWrap has spawned two other companies under Ehsani's direction: PipeMedic, which focuses on repairing pipelines,

and PileMedic, which focuses on repairing underwater piles and utility poles. QuakeWrap and its sister companies have won numerous awards for excellence. For example, PipeMedic was awarded the 2011 Trenchless Technology Project of the Year Award for its work on repair of natural gas pipelines and underground construction.

Ehsani's role within the organization is to conceive new ideas and develop them to marketable products; essentially being the creative brain behind the company. Ehsani also does much of QuakeWrap's marketing, meets with clients to discuss projects, and manages the business end of the company. "It's interesting that I do very little engineering," said Ehsani. Because he has to meet with clients, attend conferences and make presentations, Ehsani is often traveling. He spends about a third of his time in Tucson and the rest on the road.

Ehsani notes that like most new small businesses undergoing expansion, there are the challenges of management and staffing, such as hiring and firing employees. However, the positives he's

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Highlights from Fall 2011

By Dr. Kevin Lansey, CEEM Head

Change is good. A Chinese professor gave me this simple advice

when I was considering leaving a faculty position at Oklahoma State to come to the UA in 1990. Since I last prepared an article for this newsletter nearly 2 years ago, the department has had to embrace this philosophy. The University President and Provost have moved to new positions, the university undertook a major internal review, the College of Engineering has a new dean, the budget philosophies on campus and in the College have been restructured, the university budget was reduced three times and a new football coach was hired. Even more directly affecting CEEM, we've joined the School of Sustainable Engineered Systems (SSES), two senior faculty have retired, two of our emeritus faculty have passed away, our junior faculty have further emerged as a outstanding group of teachers and researchers, and the job market for our graduates has changed dramatically.

SSES is a coalition of five departments in the College that, to date, has focused on encouraging joint research activities that expand opportunities through collaborations across disciplines. CEEM, like the other departments, remains administratively and academically independent. You can read about some of the other changes

in this and the next newsletter. We have lots to tell you about.

In the midst of these changes, some consistency is needed and is also good. Last year, we submitted our ABET documentation for consideration for continued accreditation. In 2004, we had earned accreditation action of a six-year next general review (NGR), the highest accreditation level. With the assistance of our alumni-industry council and a strong effort by our faculty and staff, the final decision for our program in 2010 was again a six-year NGR. This result is a positive reflection on all of our graduates. Notably, the reviewer recognized our strong alumni/industry support and the quality and enthusiasm of our students. We thank all those who contributed to this achievement.

We continue to strive to improve our program to better prepare our graduates for engineering practice. To that end, some change is good. We've restructured our CAD class to focus on Civil3D, improved our labs with the support of two significant donations, modified our surveying course, added a LEED component to senior design to allow our graduates to take the LEED associate's exam, begun an accelerated master's program for our seniors, and now offer a CE master's degree with an emphasis in engineering management.

We are dealing with these new times as best we can and, I believe, for the better.

Over the last two years, CEEM and the College have developed new strategic plans to define our directions and plan actions to move forward. Budget impacts have framed a number of these opportunities. With the leadership of several faculty, we are moving to distance education to better serve our constituents and develop a new revenue stream. Here, a significant effort in the next year will be to introduce a 2+1+1 program with Pinal, Cochise, Santa Cruz and Yuma county community colleges. This program will allow students to take two years at their local community colleges, one at their local venue via distance classes taught by UA faculty and the fourth year on the UA campus completing senior design and technical electives. The goal is expand access to our program and increase our student enrollment.

The second major revenue source that will be actively pursued is philanthropy. We have been fortunate to receive two large donations described in this newsletter for specific needs. Mohr's Circle membership has been increasing with the support of our Alumni Industry Council. We thank all those who have contributed to date and urge you to respond to the recent mail request. I hope, as alumni, you see the positive direction of the department and recognize that we will continue to strive to move forward in the face of the change around us.

The ARIZONA Civil View

Fall 2011 Issue

The *Civil View* discusses research, student activities and news of the Civil Engineering and Engineering Mechanics Department of the University of Arizona.

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Ivy Hasman

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Together we can all make a difference!

Student Activities

ASCE Activities

CEEM's student chapter of the Society of Civil Engineers (SCE) has been busy over the past year. The SCE is involved in professional preparation, recruiting and service activities. However, the most notable event is the Pacific Southwest Conference (PSWC). In April, it was hosted by the University of California-Los Angeles and 37 students attended. The theme of the conference was Greek Olympics and SCE participated in all events. Noteworthy results were the Survey team that placed 2nd overall and the balsa bridge that won the aesthetics portion of the competition. UA-SCE did well in the dog house project; taking 1st place for aesthetics and 2nd place for overall construction. Finally, although they did not place, the canoe and bridge teams worked very hard to prepare for their respective competitions. The club is now preparing for 2012 PSWC to be held at California State Polytechnic University in Pomona.

In terms of service, the club has also helped local engineering companies with "Engineering Saturday" during Engineer's Week earlier in February 2010, at the Foothills Mall. Some of the event tables included making sail cars with children, gumdrop and toothpick structures, newspaper dome construction, oatmeal asphalt mixtures and more. In addition to community outreach during E-Week, SCE was involved on campus in the Engineering Student Council softball tournament and

the College of Engineering's E-Week mall event. In the spring, the group did volunteer work with Habitat for Humanity, the highway clean-up program, and Math Counts. In the fall, they assisted with "Stuff the Bus" on campus and taught a STEM morning lecture at Cottonwood Elementary. The club incorporated a hands-on learning activity that coincided with the students' math- and physics-based curriculum.

To support student development and provide exposure to the profession, the SCE meets twice per month usually with an outside speaker. SCE has also taken responsibility to organize student field trips, primarily to construction sites. The Ashton Co. hosted club members on a Tech Tour of the new elephant exhibit at the Reid Park Zoo. Another field trip was held at the La Cholla bridge and they have coordinated with our faculty practitioners in the LRFD bridge class to visit the Cushing Street bridge site.

Fundraising for all SCE activities is a necessity. To that end, the second annual Monte Carlo Night is being organized for the spring semester. The annual golf tournament was held Nov. 12 with four teams of 4 to 16 golfers. In the end, the winner was Psomas Engineering. Finally the most anticipated event for students



ASCE members Corey Steele, Ryan Badilla, Marcus Miller, and Jack Rudzena next to the concrete canoe.

and the biggest fund raiser—the Career Fair—was a resounding success with about 20 firms attending on Oct. 12. Companies that attended career night include:

- AECOM
- The Ashton Co.
- Aztec Engineering
- Brown and Caldwell
- Carollo Engineering
- Caruso Turley Scott Inc.
- Freeport McMoran Copper & Gold
- Golder Associates
- Granite Construction
- Halben Martin and White Engr.
- HDR Inc.
- Kiewit Co.
- Kimley-Horn and Assoc.
- Knight Piesold
- M3 Engineering
- Pima County DOT
- Pima County WWM
- Psomas Engineering
- Rick Engineering
- TEP
- Wood Patel and Associates

The Chapter appreciates support of our alumni and industry to allow us to be successful.

Ehsani and QuakeWrap

Continued from page 1

faced outweigh those stresses. "There are so many positive attributes about the business," Ehsani said. These include being able to create a new product, pursuing new interests in projects, and being fully in control of the direction of the company. Ehsani explained that since QuakeWrap is a small business, it's easy to make decisions quickly and focus on new initiatives.

The most recent direction of QuakeWrap is its new FRP products. Over the last 3 years, QuakeWrap has developed new products like PipeMedic and Pile-Medic that are manufactured in its factory,

reducing field installation time to nearly half that of the original wet layup system. These products are used for repair of natural gas pipelines, submerged piles and other applications that couldn't be repaired with the wet layup FRP systems. For example, they can be used on areas that are not easy to reach and can even be applied robotically.

Like QuakeWrap, Mo Ehsani has taken a new direction by moving from academics to engineering practice. His new successful career builds on the one that he left behind at the UA. A Gila River rafting trip and teaching statics, structural analysis and concrete design have been replaced with innovative structural and pipeline



TEP engineers and CEEM alums, Eric Raatz, PE (Class of 2000), Mo Ehsani and Gannon McGhee (Class of 2003) next to a repaired pole.

rehabilitation projects across the globe. We are pleased to see his accomplishments and that he remains active in the department.

Emeritus Recognition

Margaret Petersen ASCE Outstanding Woman Award

The Environmental and Water Resource Institute (EWRI) established the Margaret Petersen Outstanding Woman of the Year Award to honor the professional accomplishments of the ASCE Distinguished Member. Ms. Petersen is a pioneer in hydraulics and water resources engineering. She has had a long and distinguished history of committee leadership within ASCE and EWRI. The inaugural recipient of the award was Dr. Margaret Katherine Banks, the Bowen Engineering Co. Head and Jack and Kay

Hockema Professor of Civil Engineering at Purdue University.

Banks worked on various projects for 35 years for the U.S. Army Corps of Engineers and serves as a role model for female water-resources professionals. She joined CEEM in 1980. She taught hydraulics courses, served as a graduate advisor, and authored books on water resources planning and on river engineering. She is the author of more than 100 reports and papers and has contributed to numerous publications.



Margaret Petersen

Faculty Awards

Dr. Chandrakant Desai

2011 Distinguished Member

Awarded by the American Society of Civil Engineers.

Dr. Tribikram Kundu

2012 Non-Destructive Evaluation Lifetime Achievement Award

Presented by the International Society for Optical Engineers (SPIE).

Dr. Mark Hickman

2010 Southern Arizona Engineering Educator of the Year

Awarded by the Arizona Society of Professional Engineers.

2011 AZ Engineering Faculty Fellow

Awarded by the College of Engineering, the University of Arizona.

2011 AZ Engineering Teaching Fellow

Awarded by the College of Engineering, the University of Arizona.

Dr. Achintya Haldar

2011 Southern Arizona Engineering Educator of the Year

Presented by AzSCE-SAB, AzSCE-YMF, ASPE, SAITE, SAME, SCE, SDA, WTS. 2011 AZ Engineering Teaching Fellow Awarded by the College of Engineering, the University of Arizona.

Dr. Robert Fleischman

2011 AZ Engineering Teaching Fellow

Awarded by the College of Engineering, the University of Arizona.

2011-2012 CEEM Student Scholarships

Arizona Society of Civil Engineers (AZSCE)

Monica Soto

Harold Ashton

Wyatt Saul

AZSCE Bridge Technical Scholarship

Aaron Maciosek

Willis E. & Lucille Barnum

Pablo Ceron

Beavers Heavy Construction

Aaron Maciosek

Fred & Anastasia Glendening

Pablo Ceron
Eric Hopkins
Marcus Miller
Wyatt Saul
Annette Wancho

David J. & Mickie Hall

Vanessa Castaneda
Patrick Hughes
Wesley Walling

August V. Hardt Scholarship

Fernando Gastelum

Maria & James Hess Engr.

Sungwook Wi

William M. Hughes Structural Engineering Scholarship

Grey Major
Patrick Mette
Casey Quackenbush
Mark Slater

R.A. Jimenez Highway

Kurt Lehan

Delbert R. Lewis Undergraduate Scholarship

Eric Ortiz
Andrew Weigand

Delbert R. Lewis Graduate Scholarship

Jesus Alvarado
Ryan Anthony Badilla
Ajoy Das
Xiaobin Ding
Taliehossa Hajzargarbashi
Tadd Johnson
Ryan Smith

Quentin Mees

Aaron Maciosek

J. Mellen

Casey Quackenbush

Carl & Jean Meng

Monica Soto

Elbridge & Genevieve Morrill Mem.

Daniel Lizarraga

Philip B. Newlin Memorial Surveying

Thomas Allison

Paul G. Osborn Memorial

Deanna Lopez

Nathan J. & Karen E. Palmer

Casey Quackenbush

William Price

Michelle Bording

Jane Rider

Brenda Bustillos
Elisabeth Lynn
Shelby Madrid
Alicia Mullenbach
Bai Yang

Thomas L. Rittenhouse

Jose Amorin
Fernando Gastelum
Shelby Madrid
Kelsey Palmer
Annette Wancho

Paul T. Robinson

Mark Gregory

Rukkila Endow Engr.

Kelsey Palmer

J. Ruthrauff

Thomas Allison

Salt River Project Hydrology Fellowship

Alicia Forrester
Yang Bai
Ari Posner

Schramm Scholarship

Patrick Mette

S. & R.E. Sheperd

James Tokishi

John Sundt Memorial

Curtis Miles

Dr. Russell D. Whitenack

Endowed Scholarship

Ehsan Mahmoudabadi

Glenn A. Wildman

David Silva

Clarence P. Wilson

Deanna Lopez

Alumni Profiles

Joel T. Pace (B.S. - 2008)

Joel is a volunteer member of the Existing Buildings Committee for the Structural Engineers Association of Utah and has been involved in activities geared toward preparing communities for the anticipated magnitude 7+ earthquake in the Salt Lake valley. Much of his volunteer work has been coordinated with FEMA to help them prepare better earthquake damage estimates.

One of Joel's most recent professional accomplishments was being one of the project managers in charge of designing and constructing the Draper Amphitheater in Draper City, Utah. The million dollar facility features an enclosed stage with a large front proscenium and has a capacity of 2,200 people. When talking about the amphitheater, Joel said, "I originally designed a plate girder to support the roof

over the stage opening. I used my notes from Dr. Halдар's Steel II class to design it."

Because the stage is set on the hillside and is located at the south end of the Salt Lake valley where the wind funnels between the mountains, the roof needed to be designed for significant uplift forces. The design was further complicated by roof elevation changes in the architect's design that could cause snow drift. The lateral system for the building consists of special reinforced masonry shear walls.



Draper Amphitheater in Draper City, Utah, covered in snow.

The roof diaphragm over the stage area is three-sided with the steel beam acting as a collector into the shear walls on either side. The rest of the roof diaphragms are plywood sheathing over open web roof joists. Joel added that "it was a really fun project to work on."



Spencer Tucker

Spencer Tucker (B.S. – 2008, M.S. – 2010)

Spencer has been with HDR Engineering in the Bridges and Structures division as a bridge EIT since his first UA graduation. He has been involved on bridge projects in Houston and Salt Lake City and on local projects in Tucson and southern Arizona. His project experience includes the design of highway, pedestrian, and railroad bridges, inspection of in-service fracture-critical members, and

new construction inspection. Spencer's local project experience includes La Cholla Blvd bridge over the Rillito River, Arizona Eastern Railway Railroad bridge near Cutter, and the Santa Cruz Linear Park pedestrian bridges. This fall, he returned to the department to teach concrete design and volunteer to participate in the LRFD bridge class.

Jeff Hunt (B.S. – 2008)

Since graduation, Jeff has worked on small to mid-size commercial, industrial and residential civil site development projects in the Southern Arizona region. Jeff chose to stay close to his alma mater and remain engaged with the UA through the mentoring of current students and assisting with the Civil Engineering Senior Capstone class.

In January 2010, Jeff and CEEM graduate Kevin Hall (B.S. 1995) started Cypress Civil Development here in

Tucson. The firm focuses on site civil development and planning in Tucson and the surrounding communities. Jeff enjoys playing an active role in what is affecting Tucson now and in the future.

In addition to work, he participates in ASCE and Engineers Without Borders, as well as a men's health charity called Movember, a foundation focused on raising awareness and funding for the fight against prostate and testicular cancer.



Jeff Hunt

Centennial Award Winners

Our biennial Centennial luncheon was held on November 6, 2009, at the University Marriot, to honor the recipients of the 2009 Centennial Awards. Christopher Grubbs (P.E., LEED AP) was awarded the Outstanding Young Alumni Award. At the time, Chris had risen to a position of principal at VTN Consulting in Las Vegas. His projects included general subdivision, commercial development, and roadway design and drainage and hydrology studies. Most notably, however, was Chris' involvement in the world's largest dry solar installation in California. He has since become district manager for the forensic engineering firm, Rimkus Consulting Group.

Three Distinguished Alumni were also honored. Charles (Chuck) Huckelberry, P.E., RLS, has had an impressive career in the public sector after his initial experience with Shell Oil Company and private consultants after earning his Master of Science in civil engineering from the UA. His public service career spans 35 years with Pima County government, including

the last 15 years as chief executive officer of Pima County under the title of County Administrator.

Karl Kohlhoff has an outstanding record of public service during a civil engineering career that spanned more than 50 years. Mr. Kohlhoff graduated from the University of Arizona with a Bachelor of Science in civil engineering in 1956. He worked for nearly 20 years on water and wastewater issues for the city of Mesa. Under his leadership, the city instituted what has become one of the premier water conservation programs in the nation. In 1995 Karl was the elected President of the American Water Works Association, the largest and most influential body of water supply professionals in the world. He retired from the city of Mesa in 2000 and became HDR Engineering's National Technical Coordinator.

Finally, Dr. Kenneth Renard has had an illustrious career as a research hydraulic engineer at the USDA in its Agricultural Research Service. He completed his Ph.D. in CE from the UA under the supervi-

sion of Prof. Emmett Laursen in 1972. His contributions are numerous but the seminal highlights are perhaps his work on the development of the Walnut Gulch Experimental Watershed and on erosion processes culminating in the Revised Universal Soil Loss Equation (RUSLE). These contributions have led to his receiving numerous ASCE and ASAE awards and honors.

Dr. Emmett Laursen and Dr. James Kreigh received the Centennial Professor awards at the luncheon. Dr. Laursen has written 42 publications, sponsored seven research projects, and 30 graduate student topics. He has worked in the public and private sectors as a consulting engineer and has successfully brought those experiences into the classroom. Dr. James Kreigh was UA faculty from 1959 to 1987. He was respected as a dedicated and caring mentor, advisor and role model. His extensive work with epoxy resins and concrete continues to provide assistance to engineers in design repair.



Christopher Grubbs



Charles Huckelberry



Karl Kohlhoff



Kenneth Renard



Emmett Laursen

Anonymous Donation Helps Department in Many Ways

An anonymous couple contributed nearly \$25,000 to the CEEM department to meet academic and general needs. A UA civil engineering graduate, lifelong Arizonan and licensed PE and his wife, who is also a UA alum, came forward and offered their support to the department. With the faculty and staff, needs were identified and funds earmarked to fill funding gaps. For example, several needs were related to the department's inability

to make long-term investments in software and equipment. Part of the donation was used to purchase finite element software. Similarly, general office needs that had been deferred can now be met. Further, departmental support for the SCE student chapter was in jeopardy with impending state budget reductions and part of the contribution will provide that vital funding. Finally, monies to produce and mail our next newsletter were also included in

the donation.

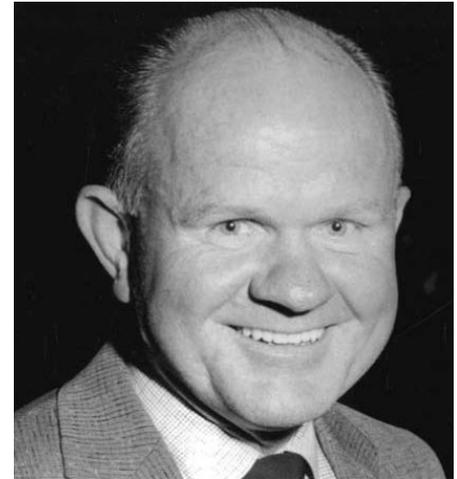
The generosity of our alumni and industry partners is greatly appreciated as funding gaps persist. Please consider following these alumni's lead and stepping forward to give back to the department. We hope that CEEM has been a part of your success and you see the benefit of supporting engineering education at the UA as an alum or as a professional.

Mrs. Alice Beobinger Dempster Honors CE Alum Robert L. Houston

Mrs. Alice Dempster was a UA student and was selected to work in the UA facilities management under Mr. Houston. He left a lasting impression on Mrs. Dempster and when she decided to give back to the UA she did so in his name. Mr. Houston received his BS in civil engineering in 1931 and his MS in mechanical and civil engineering in 1933. "Mr. Houston's devotion to the university, his ability and judgment, and his good humor and kindness were an inspiration to all who

were associated with him," said Richard A. Harvill, UA President from 1951 to 1971. We are proud to call him a CE alum and thank Mrs. Dempster for her support.

Her \$25,000 donation is being used to retrofit the Tinious-Olsen testing equipment that has served the department since the late 1950s. Airtronics, a local specialty machine shop, is completing the renovation, which includes replacing the loading device with a hydraulic system that is computer controlled.



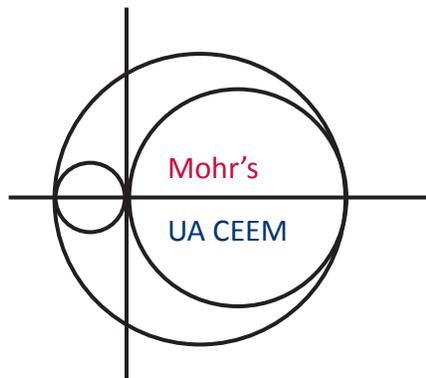
Robert L. Houston

Mohr's Circle

The Mohr's Circle is composed of generous donors who are a mix of industry and non-industry members and individuals. Mohr's Circle members have made a pledge to donate \$1,000 or more each year to the department's discretionary fund. This fund is used for:

- Practitioner-led design, surveying and communication courses for which CEEM won the NCEES award in 2009
- Equipment upgrades in the teaching labs
- Undergraduate and graduate student recognition
- Student participation in clubs, professional development, and conferences
- Campus recruiting visits for students
- Marketing and public relations support material

Benefits of membership include early registration and preferred booth location at the career fair; listing on the CEEM website, department's display board and



in the Civil View newsletter; assistance with internship placements; web posting to students for job announcements; access to separate interview room at career fair; and networking with a large number of individuals and companies in the Mohr's Circle and da Vinci Circle.

A contribution of \$5,000 or more gives admission to the College of Engineering's da Vinci Circle, which includes an invitation to the annual da Vinci Circle dinner and recognition in the da Vinci Circle newsletter

If you are interested in learning how you can make a donation or become a Mohr's Circle member, please contact Therese Lane at (520) 621-6563 or email her at theresel@email.arizona.edu.

Our current members are:

- | | |
|-------------------------------------|----------------------------------|
| • Alstom Power Inc. | • Ed and Pat Nowatski |
| • ASCE Southern AZ Branch | • QuakeWrap Inc. |
| • Bob and Shirley Barksdale | • RBF Consulting Foundation |
| • Steven R. Bertheau | • Salt River Project |
| • CH2M Hill | • Shaw Power Inc. |
| • Foster Wheeler North American Co. | • Structural Grace Inc. |
| • Joseph Gervasio | • Robert M. Suarez |
| • Kevin and Diana Lansey | • Sundt Construction Co. |
| • M3 Engineering | • The Ashton Co. |
| • Malcolm Pirnie | • TranSystems |
| • Tom McGovern | • URS |
| • NCS Consultants | • Woodson Engr. & Surveying Inc. |
| | • Zachry Industrial Inc. |

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Or e-mail: ceem@engr.arizona.edu
Please include your name, degree (B.S., M.S., Ph. D.), year of graduation, address, home and/or business phone number, e-mail, and your current employment information. Thanks!

In Memoriam

Dr. Donald A. DaDeppo

(Feb. 14, 1931 - Feb. 22, 2010)

Don earned his BS and MS from Wayne State University before obtaining his PhD in civil engineering from the University of Michigan. At the University of Arizona he rose through the academic ranks to professor of civil engineering. He taught engineering mechanics and structural engineering courses, including strength of materials, and authored the textbook *Introduction to Structural Mechanics and Analysis*.

He is fondly remembered by his students as possessing the ability to explain complicated concepts. He expected students to learn difficult material and made sure that his teaching methods allowed them to do so. "Professor DaDeppo was

one of my first teachers in 1980 when I returned to college after 8 years of absence," said George Stevenson Jr., structural engineer. "He was very rigorous in teaching Strength of Materials and proved every lesson from the basic $F=ma$. He was a huge help to me and an inspiration in my education and career. I'm sure he will be missed by many of his former students."

Integrity and demand for student quality were paramount to Don. For example, he required all students to correctly complete homework assignments before moving forward. To ensure this requirement was met, he personally graded all of their homework. As noted by Scott Merry (UA graduate and former faculty member), these traits made Don a faculty member who was remembered by students and a

role model for many. "I have so many fond memories of his excellence in the classroom," Merry said. He explained difficult concepts using simple tools yet demanded perfect understanding and assimilation in the homework and exams. I am very thankful for having had him as an instructor in what I feel was the most important class in my formation as an engineer. Too, his example served as a great model for myself when I went on to teach the same course at UA a few years ago. He was a man and professor of the highest quality."

In addition to their memories of his teaching, his students remember his passion for swimming, running, and flying. After retiring Don continued to develop talents for cooking, baking, and wood working.

Dr. Haaren Albert Miklofsky

(Nov. 25, 1920 - Oct. 2, 2011)

Haaren Miklofsky was born in Rochester, New York. With a lifelong passion for education, he took night classes to earn a BS in civil engineering from George Washington University (GWU) then earned his MS and PhD from Yale University. He taught soil mechanics and served as executive officer of the CE program at GWU in the late '40s and early '50s. He was an instructor and faculty at many

universities, the last being the University of Arizona in CEEM, where he retired as professor emeritus. After retiring in 1987, Haaren remained active in the department by serving on the History and Heritage Committee during our centennial year and helping produce our departmental history. He returned to the classroom as a student taking statics and mechanics of materials among other courses and was frequently seen in the department in shorts and suspenders with his backpack.

He was a member of Civic Orchestra of Tucson on violin and Tucson Concert and Shrine bands on trumpet. Haaren directed three groups of his own: a dance band called The Rhythm Gang that performed big band music of the 1930s and 1940s and most recently the Music Samplers, who gave him a musical send-off to a Sousa march. Haaren is survived by his wife, Esther Shannon, children, grandchildren, and a great-grandchild.