

COLLEGE OF ENGINEERING FACULTY/STAFF E-NEWSLETTER



SAN DIEGO STATE
UNIVERSITY
College of Engineering

November 2009

In the Spotlight

- **Don't forget!! The Faculty/ Staff Holiday Luncheon** will be taking place on Thursday, December 10th at 11:30 a.m. at Cuicicalli Dining Hall. Please join your friends and colleagues to celebrate another great semester! RSVP to Carly at chouse@mail.sdsu.edu

Alumni Newsletter Launched

As many of you may have noticed, November 23rd marked the official launch of the College of Engineering's *Alumni and Friends Newsletter*. This web-based e-mail newsletter will be an essential tool in engaging alumni, friends of the university and industry partners and keeping them connected with the College's programs.

The College of Engineering continues to excel, developing new academic programs critical to the San Diego area, performing world-class research, engaging middle and high school students in the excitement of engineering and recruiting and retaining of an academically gifted and diverse student population. The College needs to share these achievements with our alumni but also in the broader San Diego community. This electronic newsletter provides a venue for doing so.

Special thanks to Chris Paolini, Levi Lentz, Cindi McClain and Carly House for collaborating on this important project! Just as with this internal newsletter, submissions are encouraged and can be sent to Carly at chouse@mail.sdsu.edu. If you have not yet had a chance to take a look at the newsletter, please do so by visiting www.enineering.sdsu.edu/newsletter.

Tracking The Dean

Date	Event
12/2	Dean Hayhurst attended a meeting on university branding with Mary Ruth Carleton and Jessie Brooks of URAD
12/3	Dean Hayhurst and Dr. Tummala met with David Geier, VP for Electricity Transmission and Distribution at SDG&E
12/3	Dean Hayhurst met with Dean Frider Seible, of the Jacobs School of Engineering at UCSD
12/7	Dean Hayhurst met with representatives from PSG College of Technology in India
12/7	Dean Hayhurst attended a meeting with UC Sustainability Manager Matt St. Claire
12/9	Dean Hayhurst will attend a CEM Internship Planning Meeting
12/9	Dean Hayhurst will participate in a conference call with Lockheed Martin
12/10	Dean Hayhurst will meet with President Weber and VP Carleton to discuss the College's Development Efforts
12/11	Dean Hayhurst will attend the CONNECT Most Innovative Product Awards

Panama Study Abroad Program Introduced

Study Abroad Programs offered by the College of Engineering are becoming increasingly popular as the engineering market continues to globalize. Along with this growth in popularity, more and more faculty members are exploring opportunities to take their students abroad.

In the summer of 2010, Dr. Julio Valdes and College of Sciences technician Tom Zink have organized an exciting five week trip to Panama. Students will have the opportunity to take a CIVE 596 course in Canal Engineering and an elective GENE 450 course which will study the impact of the Panama Canal on indigenous populations. Studies will take place in the pristine City of Knowledge, a former US Military Base and suburb of Panama City located adjacent to the canal itself.

In addition to their coursework, students will have the opportunity to explore surrounding areas, including a weekend adventure where they will spend two days living with the Kuna and Embera, autonomous tribes of the San Blas archipelago of Panama.



Dr. Plotkin Recognized by Mortar Board

On Wednesday, Nov. 18, Mortar Board, the national honor

12/11	Dean Hayhurst will take part in the EGCA Foundation Board of Directors Meeting
12/15	Dean Hayhurst will attend EDC's Science, Technology, Engineering & Math (STEM) Education Forum at USD
12/16	Dean Hayhurst will attend a lunch meeting with CUBIC Corp.
12/17	Dean Hayhurst will have lunch with Dean's Advisory Board Member Mike Reed
12/18	Dean Hayhurst will attend the Staff's Holiday Pot Luck Lunch and Gift Exchange
12/18	Dean Hayhurst will attend the McNair's Scholarship Reception at Scripps Cottage



society for college seniors hosted the 20th Annual Faculty and Staff Appreciation Dinner. The purpose of the event is to honor those who have made significant contributions to the education and academic achievement of the members of the Jane K. Smith Cap and Gown Chapter of Mortar Board.

AE/EM Department Chair Dr. Allen Plotkin was selected by one of his students to be honored this year.

The faculty and staff members selected by Mortar Board to be recognized this year represent the ideals upon which Mortar Board was founded: superior scholastic achievement, outstanding leadership and dedicated service.

Dr. German & Colleagues Receive "Best Paper" Honor

The Particulate Engineering Committee of the Institute of Materials, Minerals and Mining has made its second biannual award for the "best paper" in the journal *Powder Metallurgy* during 2007 and 2008. It has selected the work R. Urval, S. Lee, S. V. Atre, S.-J. Park, and R. M. German, entitled "Optimisation of Process Conditions in Powder Injection Moulding (PIM) of Microsystem Components Using a Robust Design Method. Part I: Primary Design Parameters" which appeared in the June 2008 issue (volume 51, pages 133-142).

The paper investigates process and component design attributes related to powder injection molding of thin walled, high aspect ratio geometries using computer aided design tools to simultaneously solve heat and mass transfer conditions for nanoscale powders molded with polymeric binders into microminiature devices. These devices are emerging in biomedical systems, blood assay technologies, microchannel fluid control and mixing devices, watches, sensors, and automotive safety electronics. The effect of a reduced component thickness was evaluated with respect to melt temperature, mold temperature, fill time, machine switchover position, and component thickness.

A key finding from the study was mold temperature control, and even cyclic heating and cooling during a molding cycle, was critical to reduction of variability in component quality. Drs. Atre, Park and German have worked together for several years. The first three authors are at Oregon State University, Seong-Jin Park is at Pohang University of Science and Technology (Pohang, South Korea), and Rand German is at San Diego State University.

End of the Semester Schedule Notes

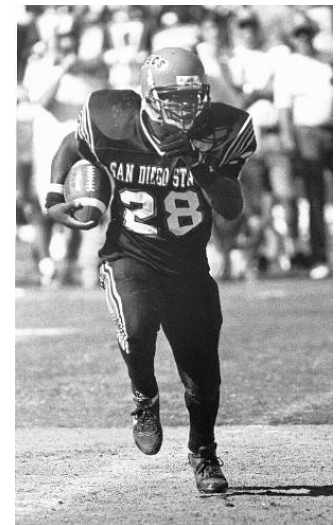
As the end of the semester approaches there are a few notable dates to remember:

- ◆ December 10th: Faculty & Staff Holiday Lunch at Cuicicalli Dining Hall at 11:00 a.m.
- ◆ December 11th: Last day of classes before final examinations.
- ◆ December 12th-19th: final examinations.
- ◆ December 18th: Staff Holiday Pot Luck & Gift Exchange in the Dean's Conference Room at 12:00 p.m. Faculty who are on campus at this time are welcome to bring a dish and join in on the fun!
- ◆ December 21st-24th: Campus will be closed for Mandatory Furlough Days.
- ◆ December 31st: The Dean's Office will be open for business as usual & December payroll.
- ◆ December 31st: Grades due from instructors (11 p.m. deadline).
- ◆ January 4th: Mandatory Furlough Day, Campus Closed.

Alumni Tailgate Held

Over the past year the College of Engineering and University Relations and Development have been hosting an array of Alumni Events to engage our former students.

The Fall 2009 event was held at Qualcomm Stadium in the form of a tailgate prior to the SDSU vs. Wyoming football game. The College of Engineering teamed up with the Aztec Athletic Foundation's Champions Club to host a group of approximately 30 enthusiastic Aztec fans and Alumni who were treated to a buffet dinner and some SDSU spirit as the group was entertained by the marching Aztec Band and Cheerleaders. Look forward to more exciting alumni events coming this spring!



Meet the Development Staff

Carly House is the Administrative and Development Coordinator for the College of Engineering and has been working in the Dean's Office for just over a year. In addition to her support responsibilities for the Dean's Office operations, Carly is responsible for maintaining relationships with University Relations and Development and supporting engineering initiatives and alumni activities as well as tracking giving activity. Over the last year, she has coordinated multiple events for the college, including alumni mixers and the recent reception and dinner honoring Dr. Fred Harris. Additionally, Carly supports the administrative activities of the Dean's Office and the College's Curriculum Committee and is responsible for the distribution of the College's Newsletters.

Carly graduated from San Diego State University and was involved with the student organization Aztec PRIDE (Philanthropic Roles In Development for Education) and with Gamma Phi Beta Sorority while earning her degree in Public Administration. Carly previously worked as a student assistant supporting the development activities of the SDSU Athletic Department's Aztec Athletic Foundation. She is originally from Laramie, Wyoming and now lives in Clairemont with her Daschund/Fox Terrier mix Lylah.



Suzanne McClain in her roll as Assistant Director of Development, Suzanne McClain provides fundraising support for the College of Engineering, the College of Education and Undergraduate Studies. She has been at SDSU for two years, and previously worked at the YWCA of San Diego County in their fundraising department for 18 years.



Originally from Carson City, Nevada, Suzanne attended the University of Nevada, Reno and has called San Diego her home for nearly 30 years. She enjoys reading, knitting and of course time with her husband, Tim, two children, Patrick, 17 and Cassidy 14, and Piper, their 10 year old wirehaired fox terrier who still thinks she is a puppy.

Research Corner—Projects Submitted & Awards Granted in November

<u>Name</u>	<u>Dept</u>	<u>Title of Project</u>	<u>FA</u>	<u>Status</u>
Dr. Edward Beighley	CCEE	Factory Mutual Insurance Internship	FMIC	Awarded
Dean David T. Hayhurst Co-PI Theresa Garcia	DNS	STEP Partnership of San Diego	NSF/DEHR	Prior
Dr. Samuel Kassegne	ME	Fundamental Research in Mobile Script Recognition & Verbalization in Low-literacy Environment	GF	Submitted
Dr. Eugene Olevsky	ME	Multi-scale Modeling of Co-fired Ceramics Fabrication	NSF/DM	Awarded
<p>FMIC = Factory Mutual Insurance Company</p> <p>NSF/DEHR = National Science Foundation Directorate for Education and Human Resources</p> <p>GF = Google Foundation</p> <p>NSF/DM = National Science Foundation Directorate for Mathematics</p>				

Faculty and staff are invited each month to submit stories, story ideas and photos that you would like to see included in this newsletter. Please contact Carly at chouse@mail.sdsu.edu or at 4-0605 by the 20th of each month