

# COLLEGE OF ENGINEERING FACULTY/STAFF E-NEWSLETTER



SAN DIEGO STATE  
UNIVERSITY  
College of Engineering

JANUARY 2009

## In The Spotlight.

- On Dec. 19th & 22nd the QUALCOMM Inc. Master of Engineering Program information was presented at the QUALCOMM Inc. campus. The presentation was made by Dr. Lal Tummala and Dr. David Ely from the College of Business and drew an attendance of 120 prospective students.
- On Dec. 12th ROEL Construction President Kevin Elliott signed a \$150,000 check made out the CEM Professorship Endowment, completing a \$500,000 pledge that was made in 2002. The original pledge called for annual payments of \$50,000, but Elliott felt that this was a good time to make the payment in full so the university could take advantage of the low markets when investing.

## Doug Barnhart Visits Campus, Speaks to Students

San Diego community leader, friend to the university and Engineering Dean's Advisory Board Member Doug Barnhart took some time out of his busy schedule on December 4th to visit the SDSU campus where his guest lecture at the AGC Student Chapter meeting drew the attendance of many students and faculty.

Doug, who is currently President of the National Associated General Contractors organization, talked to students and faculty about the challenges of building his company and discussed his various involvements in the world of construction engineering.



After his lecture, students had the chance to ask questions and mingle over pizza, as they enjoyed the opportunity to rub shoulders with a significant player in their chosen field of study.



Following the lecture, Mr. Barnhart had a separate lunch meeting with Dean Hayhurst, Professor Ken Walsh and Elizabeth Daoust from University Relations and Development to give Doug a more extensive update on the growth of the College, the Construction Engineering Management program as well as the economic challenges being faced by both the College of Engineering and the university.

## Tracking the Dean December Activities

1/7	Dean Hayhurst and Dr. German will meet with Mehran Mehregany, Ph.D., Director of the Science and Technology Application Center, Case Western University
1/13	Dean Hayhurst will meet with Dean's Advisory Board Member Frank Flores
1/15	Dean Hayhurst will attend the Business & Education Direct Connection Annual Event 2009
1/20	Dean Hayhurst will attend the CSU Engineering Dean's Meeting at Cal State East Bay
1/21	Dean Hayhurst will meet with executives from Sony, Inc.

## UGP Awards Granted

6 College of Engineering faculty members recently received 2009 University Grants Program (UGP) awards for research. The University Grants Program provides internal support for faculty and is funded by the Chancellor's Office, Academic Affairs and the SDSU Research Foundation. Dr. Rand German credits awards such as these with "planting the seeds" of projects that help faculty develop their research and potentially lead them to additional projects, funding and recognition.

Congratulations to Dr. Luciano Demasi, Dr. Temesgen Garoma, Dr. Sam Kassegne, Dr. Svetlana Kostic, Dr. Mahasweta Sarkar and Dr. Satchi Venkataraman for a job well done.

## Dr. fred harris Recognized by SPAWAR

Dr. fred harris was honored by SPAWAR on December 9th for his contributions to the "largest ever Navy/Department of Defense patent licensing agreement".

According to a news release from the United States Navy, The agreement with Elemental Wireless LLC contains over 60 patents representing the work of over 90 individual inventors and took more than 2 years to negotiate. The agreement will "help facilitate the commercialization of an entire portfolio of Navy-developed technologies focused on computer software and hardware, advanced algorithms, artificial intelligence semiconductors, digital imaging, communication protocols, lasers and optics".

1/21	Dean Hayhurst will meet with executives from Sony, Inc.
1/28	Dean Hayhurst will attend the CONNECT Board of Directors Meeting

than 2 years to negotiate. The agreement will "help facilitate the commercialization of an entire portfolio of Navy-developed technologies focused on computer software and hardware, advanced algorithms, artificial intelligence semiconductors, digital imaging, communication protocols, lasers and optics".

Dr. Harris contributed 3 patents to this agreement, and can be proud to have played a part in such a significant piece of Navy/Department of Defense history.

### AutosplICE Competition Held

### AE/EM Alumni Event Scheduled



The Mechanical Engineering Department played host to a unique final project presentation this past month, one where not only a grade was at stake, but a \$1,000 scholarship.

This opportunity was made possible by AutosplICE, Inc. who challenged the students to create a product using their "muscle wire" and offered each member of the winning project team an

engineering scholarship for the spring semester.

Judges from AutosplICE Inc. were on site for the presentations and will report back to their CEO Irwin Zahn, who will make the final decision as to who will receive the grand prize.

The department of Aerospace Engineering & Engineering Mechanics is set to host a group of alumni at the January 28th SDSU Basketball game where the Aztecs will take on the Horned Frogs of Texas Christian University.

The event will include a pre-game reception in the Mezzanine suite at Cox Arena, hosted in conjunction with the Aztec Athletic Foundation and the opportunity to see the 10-3 Aztecs in action.

Over the course of the spring semester, the Dean's office is hoping to sponsor one alumni development event per department in order to connect with alumni and to update them on all of the news coming from the College of Engineering.

### Research Corner—Projects Submitted & Awards Granted in December

<u>Name</u>	<u>Dept.</u>	<u>Title of Project</u>	<u>FA</u>	<u>Status</u>
Dr. Rand German	ME	Workshop for Scientific Issues on Medical Applications of Micro/Nano Powder Injection Molding-Molding, Sintering, Modeling, and Commercial Applications	NSF ISE	S
Dr. David T. Hayhurst & Theresa Garcia	DNS	STEP Partnership of San Diego	NSF DEHR	A
Dr. David T. Hayhurst	DNS	Mathematics-Physics Technology Institutes (MPTI)	UCOP	A
Dr. Gordon Lee & Dr. Eric Frost	DNS	Theoretical Analysis, Explanatory Studies and Technical Services	DOD SNWSC	A
Dr. Eugene Olevsky	ME	Multi-scale Modeling of Co-fired Ceramics Fabrication	NSF MPS	A
Dr. Eugene Olevsky	ME	Nanoparticle Sintering Study by an Integrated Multi-Scale Experimental and Simulation Approach	US DOE	S
Dr. Mahasweta Sarkar. & Dr. Chris Paolini	ECE	NeTS: Small: A Game-Theoretic of QoS in the 802.11e MAC Sublayer	NSF	S
Dr. Satish Sharma	ECE	Platform Independent Omni-directional Antennas	NASA	S
Dr. Kenneth Walsh. & David Lipson	CCEE	Collaborative Proposal: Stress State Variable Effects on Vadose Zone Soil Physical and Pathogen Transport Properties	NSF	S

ISE = International Science and Engineering  
 DEHR = Directorate for Education and Human Resources  
 UCOP = University of California Office of the President  
 SNWSC = Space and Naval Warfare systems Command  
 MPS = Mathematics and Physical Sciences

Story ideas, award notifications, suggestions and comments can be sent to Carly House at [chouse@mail.sdsu.edu](mailto:chouse@mail.sdsu.edu)