



 SDSU's Formula SAE Car Team Makes SDSU Proud Dr. Ponce's Visualab Reaches Out on the Web

September/October, 2010

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Thurs. Nov. 4 at 11 am is the next ALL-Faculty Informational Meeting in 423-B. <u>Tues. Nov. 9 at 10 am</u> is the next ALL-Staff Meeting in the Dean's Conference Room.

SDSU's Formula SAE Car Team Makes SDSU Proud

Reminders

Aztec Racing competed with its Formula SAE AR-10 car against over 100 teams at California Speedway during the summer of 2010, finishing in

## 26<sup>th</sup> place for presentation –an Aztec Racing record high—and 5<sup>th</sup> place for cost report



examination. The Formula SAE AR-10 car is built by SDSU's Society of Automotive Engineers, and Racing was the last event of the competition and Aztec Racing chose Tyler Hauptman, SAE President, to take the wheel. "The team marched proudly down the pit lanes, feeling accomplished for getting farther in the competition than many past Aztec Racing teams, " according to Nicolas Megevand, SAE Project Manager. Tyler was able to reach the average top lap time of 1 minute 28 seconds during his first two laps, and pushed the car

difficulties forced Aztec Racing to withdraw from the racing competition. Read More

Production is under way in the CCEE Department's Visualab as Dr. Miguel Ponce is finishing up one of his newest videos to teach students about hydrology. Working on Apple's Final Cut Pro and using two computer screens at once, Dr. Ponce produces videos that he posts to his website as an online resource for students, and the general public. Dr. Ponce has been producing videos for just over one year now, and has already created

over thirty videos, with each taking about two weeks to complete. He was inspired by YouTube, and by the "Khan Academy," which is a media base of over 1,800 videos created by one person to teach people about various topics. "I'm doing what Khan is doing, just on a smaller scale," said Dr. Ponce, who focuses on creating longer videos of better quality.

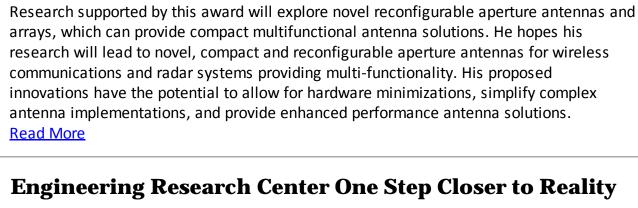
"We do everything from concept to posting," explained Dr. Ponce of the production process. He does everything himself, which is no easy feat. His productions combine video, voice, music, script, still images and animation; he also works on digital design.

Dr. Ponce's Visualab Reaches Out on the Web

## Engineering, has received a National Science Foundation CAREER Award for \$400,000 to conduct research on novel

July 2014.

Dr. Satish Sharma Receives NSF CAREER Award



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**Read More** 

innovations have the potential to allow for hardware minimizations, simplify complex antenna implementations, and provide enhanced performance antenna solutions. **Engineering Research Center One Step Closer to Reality** SDSU's College of Engineering, along with Center for Sensorimotor Neural Engineering the University of Washington (UW) and

> the Massachusetts Institute of Technology (MIT), has submitted a proposal to the

Dr. Satish Sharma, Associate Professor of Electrical

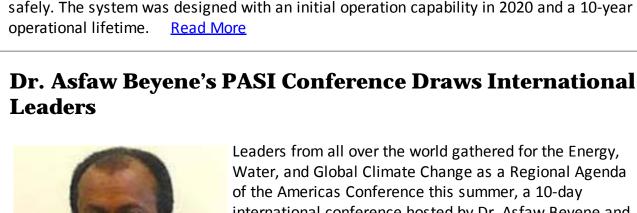
aperture antennas. NSF bases CAREER awards on the transformative quality of research and the uniqueness of educational plans. Dr. Sharma received the award in August 2009, and his project is expected to go through

National Science Foundation for a \$40 million, 10-year grant which would support the creation of an Engineering Research Center for Sensorimotor Neural Engineering. A team of fourteen researchers and supporters representing the College of Engineering recently traveled to the University of Washington-Seattle campus for a NSF ERC site visit, an important step in the award process. SDSU, UW, and MIT are one of just eleven teams of universities selected for a site visit. Out of those eleven, five or six will be awarded funding for an ERC. This is significant because SDSU is now on a very short list of

## The contest required teams to design a space transportation architecture capable of sending two or more astronauts from Earth to a Near Earth Asteroid, and return them

**AIAA Student Design Team Wins 3rd Place** 

universities that will possibly receive center funding.



of the Americas Conference this summer, a 10-day international conference hosted by Dr. Asfaw Beyene and Dr. Walt Oechel of SDSU's Biology Department. Dr.'s Temesgen Garoma and Mirat Gurol were also on the conference's organizing committee. The conference was a Pan-American Advanced Studies Institute (PASI) project and was

degree and has built its endowment to more than \$4

Leaders from all over the world gathered for the Energy, Water, and Global Climate Change as a Regional Agenda

Congratulations to SDSU's American Institute of

3rd place in the 2009-2010Undergraduate Space Transportation Design Competition! Their design was entitled Human Exploration and Reconnaissance of a Massive Extraterrestrial Space-born Object (HERMES). Approximately 10-15 universities entered the competition.

Aeronautics and Astronautics (AIAA) students for taking

Dr. Ken Walsh was honored at the all-university convocation in August 2010 with Faculty Monty Award for the College of Engineering. Dr. Walsh has worked tirelessly to design, launch and grow the J. R. Filanc Construction Engineering and Management Program

Dr. Walsh was surprised and pleased to learn that he had been chosen to receive the award. "There are a lot of great faculty in the college, so to be the one recognized and to be amongst the great people that have won in the past is really special to me," he said.

SDSU Engineers See the World – Summer 2010 Study

Coimbatore, India

funded by the National Science Foundation. The first five days of the conference took

Dr. Ken Walsh Receives Faculty Monty Award

million.

place in San Diego, and the last five in Ensenada, Mexico.

# Abroad Panama City, Panama

Pisa, Italy

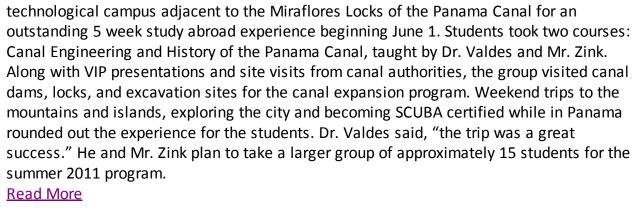
advisors Dr. Julio Valdes and Mr. Tom Zink stayed at the "City of Knowledge"

on Troops to Engineers, Arlington VA

**Higher Education** 

Advisory Board

**General Atomics** 



Oct. 28-

29

Nov. 1

Nov. 4

Nov. 4

& 5

Nov. 5

Nov. 17

Nov. 18

Nov. 19

Nov. 19

Nov. 22

Dr. Ed Beighley, Mr. David Lipson

Dr. Gustauf Jacobs

Dr. Satish Sharma

Dr. Satish Sharma

Dr. Gordon Lee. Mr. Eric Frost, Mr.

Barry Janov

Dr. Ed Beighley

Dr. Ed Beighley

Dr. Sunil Kumar

Dr. Julio Valdes

Dr. Mahasweta Sarkar, Dr. Santosh

Dr. David Hayhurst

Dr. Randall German, Dr. Eugene

Olevsky

Dr. David Hayhurst, Ms. Theresa

Garcia

Dr. Arif Engin

Dr. Luciano Demasi, Dr. Jose Castillo

CCEE

AE/EM

ECE

ECE

ECE

CCEE

CCEE

ECE

CCEE

ECE

ME

DNS

ECE

**Read More** 

Tracking the Dean - Highlights of the Dean's Calendar

Dean Hayhurst will travel to the Frontiers in Education Conference and make a presentation

The Dean will attend the Order of the Engineer Board of Governors Meeting in Phoenix, AZ

The Dean will meet with Dr. Don Heller, from Penn State University's Center for the Study of

The Dean will participate in the Veterans Center Grand Opening on campus

The Dean will meet with Steve Doyle, President, Brookfield San Diego Builders

Panama City, Panama - Five students and faculty

Nov. 5 The Dean will visit the calling floor for SDSU's Annual Fund Drive Nov. 9-The Dean will travel to San Jose for a series of development/fundraising meetings and 10 The Dean will have lunch with Admiral Ken Slaght, Vice President and General Manager, Nov. 11 General Dynamics Information Technology, and Dean's Advisory Board Member The Dean will participate in a video conference with Karl Kriebes of K5 Corporation Nov. 12 Nov. 15-The Dean will travel to Arlington VA to participate on an NSF Proposal Review Panel 16

The Dean will attend the Scholarship Donor Appreciation Luncheon on campus

The Dean will attend the Campaign Initiatives Meeting on campus

The Dean will attend the CONNECT Workforce Partnership Presentation of Robert Reich

The Dean will meet with Irwin Zahn, CEO of Autosplice, and several members of the Dean's

The Dean will have lunch with Mike Reed, President and CEO of Electronic Systems, Inc.,

The Dean will participate in the CONNECT Board of Directors meeting Nov. 29 The Dean will have lunch with Maria Fischer, CEO of Bientech International and Dean's Dec. 3 Advisory Board member. **Research Corner - Projects Submitted & Awards Granted** Click Here For Sizable Chart Research Corner - Projects Submitted & Awards Granted in May Department EA Title of Project Status Simulation and Testing Support-Seismic Design Anchorage Dr. Ed Beighley Factory Mutual Global Summer Research Internship 2010 Factory Mutual Global Awarded Dr. Ed Beighley CCEE Continued Porting of GISHydroNXT to ArcGIS 9 - Phase II VA PISU Submitted Dr. Sunil Kumar ECE Model-based Sensor Placement for Diagnosis and Control in a Circulating Fluidized Bed Clarkson University earch Corner - Projects Submitted & Awards Granted in June An Integrated Framework for Creation and Assessment of Sustainable Construction Processes Dr. Kenneth Walsh CCEE Arizona State University Awarded Decomposing the Water Storage Signal from Basins in Varied Climate Settings with Dr. Ed Beighley CCEE NASA Remote Sensing and Modeling Submitted Multimedia-based Integration of Cross-layer Techniques Dr. Sunil Kumar ECE DOD AFRL Evaluating SWOT Observations of River Discharge and Their Implications for Large Scale Dr. Ed Beighley Hydrological Estimation and Prediction Ohio State University (The) CCEE Submitted Dr. David Hayhurst, Ms. Theresa STEP Partnership of San Diego NSF DEHR Garcia DNS Awarded Investigation of Lean Six Sigma Implementation in NAVFAC Construction Contracts Project Management Dr. Thais Alves DOD NSSC Research Corner - Projects Submitted & Awards Granted in July Dr. Eugene Olevsky ME Fabrication of Advanced Armor and Anti-armor Components by Spark-plasma Sintering DOD AARDEC Submitted NEESR-CR: Full-scale Structural and Nonstructural Building Systems Performance During UCSD Dr. Kenneth Walsh CCEE Earthquakes CAREER: The Effects of Residual Antibiotic Contamination on the Development. NSF Dr. Temesgen Garoma CCEE Submitted Maintanance and Transport of Antibiotic Resistance in the Environment Dr. Temesgen Garoma CCEE Significance of Sub-Therapeutic Levels of Ciprofloxacin in the Environment The SD Foundation Awarded Dr. Satish Sharma Wideband Metamaterial Antennas Integrated into Composite Structures NextGen Aeronautics Research Corner - Projects Submitted & Awards Granted in August Dr. Sunil Kumar ECE Adaptive Tactical Black HAIPE MANET VlaSat Inc Submitted Dr. David Hayhurst NASA DNS SDSU Mathematics. Engineering. Science Achievement (MESA) Program Summer Camp

Collaborative Research: The Influence of Plant Functional Types on Ecosystem Responses to Altered Rainfall

Near-bottom Turbulence and Sediment Resuspension Induced by Nonlinear Internal

Waves

High Performance UHF Antenna Subsystem for Cubesats/Nanosats

Ultra Wideband Conformal Antennas for Network Enabled Weapons

Theoretical Analysis, Explanatory Studies and Technical Services

GISHydro Development in ArcGIS and Maintenance of the GISHydro Program and Web

An Integrated Climate Assessment and Water Planning Model for San Diego County

Cognitive Cross-Layer Protocols for Multi-Hop Transmission

Propagation of Localized Compaction in Constrained Particulate Materials Small-World Wireless Mesh Networks - NeTS: Medium: Collaborative Research:

SWoMNeTs

SERVICE (Success in Engineering for Recent Veterans through Internship and Career

Experience)

Multi-Scale Modeling and Experimentation on Liquid Phase Sintering in Gravity and

Microgravity Environments

MESA MEP

Rapid Broadband Dielectric and Surface-Roughness

Multi-scale and Multi-theory Architecture for Composite Structures

VA PISU - Virginia Polytechnic Institute and State University DOD AFRL = Dept. of Defense Air Force Research Laboratory NSF DEHR - NSF Directorate for Education and Human Resources DOD NSSC = Dept. of Defense Naval Supply Systems Command DOD AARDEC - DOD Army Armanent Research, Development and Eng. Ctr. DOD SNWSC - DOD Space and Naval Warfare Systems Command NSF DEEC - NSF Division of Engineering Education and Centers

Thanks to Kaitlin Andrews, Dean's Office Student Assistant and Public Relation major, for her interviewing and writing contributions to this newsletter.

Please contact Cindi McClain at <a href="mailto:cmcclain@mail.sdsu.edu">cmcclain@mail.sdsu.edu</a> or 4-6062 if you have a story or story idea to suggest for future editions.

Research Corner - Projects Submitted & Awards Granted in September

Submitted

Submitted

Awarded

Awarded

Awarded

Awarded

Submitted

Submitted

Submitted

Awarded

Awarded

Submitted

Submitted

Cornell University

Space Micro Inc.

NextGen Aeronautics

DOD SNWSC

VA PISU

DCSD

TrellisWare Inc.

NSF.

NSF

NSF DEEC

NASA

UC Office of the President

NSF

DISCLAIMER: This new HTML format has not been tested on a wide variety of browsers and mail-servers. Please let Cindi know if you experience any technical difficulties viewing this newsletter so problems can be corrected for the next edition.

Click Here For Sizable Chart

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