



ENGINEERING NEWS



**SAN DIEGO STATE
UNIVERSITY**

Minds that move the world

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Engineering Student Named Homecoming King

Mechanical Engineering student, Levi Lentz, was crowned Homecoming King on October 8th, 2011! Through his accomplishments and active roles in the university, Levi showed San Diego State that winning Homecoming King was not based on his popularity but on his scholarship, community service, and achievements. Being the only engineering student on the Homecoming Court, Levi represented Engineering well.

Levi was nominated for the Homecoming Court by the Honor Council due to his active achievements. In addition to being an officer of the Honors Council and a member in five of the six interdisciplinary honors societies of the Honors Council, Levi also holds officer positions in two other organizations on campus, the University Honors Program Student Society, and the Mortar Board. Levi has also been able to maintain a solid 3.87 GPA.

Bill & Melinda Gates Foundation Funds SDSU Research



San Diego State University will receive funding through Grand Challenges Explorations, an initiative created by the Bill & Melinda Gates Foundation that enables researchers worldwide to test unorthodox ideas that address persistent health and development challenges. Temesgen Garoma, environmental engineering professor at SDSU, will pursue an innovative global health research project, titled "Enhanced Anaerobic Digestion: A Sanitation and Energy Recovery Technology."

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Engineers Without Borders Annual Fundraiser



In 2007, the SDSU Chapter for the nationwide humanitarian organization Engineers Without Borders was established on campus with a mission to support community-driven development projects worldwide. Since its establishment, the SDSU student chapter has been doing just that. This summer, EWB-SDSU held their largest annual fundraiser called "Wine for Water".

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SEEK Hosts Three Week Summer Camp



This past Summer, the National Society for Black Engineers (NSBE), held its first annual Summer Engineering Experience for Kids (SEEK) program at San Diego State. The purpose of the SEEK program is to create a path in science and engineering careers for African American and other minority children. Thirty dedicated NSBE members accommodated three hundred fifty children in this three-week interactive camp.

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Zahn Center for Engineering Innovation Opens at SDSU



San Diego State alumni Richard Kerr has developed a bi-weekly series of lunchbox lectures that teaches and shows students that entrepreneurial businesses can be started with innovative ideas. Kerr's transition from engineer to businessman allows him to educate students on how to change their thought processes when approaching entrepreneurial ideas. These free lectures given to the students not only give tips and advice on entrepreneurship, but also help determine if entrepreneurship is something that they really want to pursue.

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Industrial Assessment Center Receives \$1 Million in Funding



Congratulations to Dr. Asfaw Beyene, Professor of Mechanical Engineering, for his recent award of one million dollars for funding of SDSU's Industrial Assessment Center (IAC). This grant will support the IAC for the next five years.

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As a service to the community, the Homecoming King and Queen are required plan a community service event the year following their victory. Levi is pushing to plan a community service event that helps and benefits engineering.

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AIAA Design Team Places at National Competition

Congratulations to SDSU's American Institute of Aeronautics and Astronautics (AIAA) students for taking 2nd place in the 2010-2011 Undergraduate Space Transportation Design Competition!

The contest required teams to design a space transportation architecture capable of sending paying passengers to orbit in an economically justifiable manner. The system was designed for an initial operation capability in 2025 with a 20 year operations lifetime.

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NECA Green Energy Challenge



The SDSU Construction and Electrical Engineering students made a statement at the 2011 ELECTRI International Green Energy Challenge for National Electrical Contractors Association (NECA). To compete, a team of SDSU Construction Engineers and Electrical Engineers formed a new NECA Student chapter and collaborated to identify ways to best save electricity in the University Towers dormitory on campus.

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Dr. Satchi Venkataraman Elected to AIAA Fellow



The American Institute of Aeronautics and Astronautics (AIAA) recently announced that Dr. Satchi Venkataraman has been elected to the grade of Associate Fellow, which encompasses individuals who have made notable and valuable contributions to the arts, sciences, or technology of aeronautics or astronautics.

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Formula SAE Team Competes in LA Auto Show



San Diego State University's Society of Automotive Engineers (SAE) student chapter continues to help and provide engineering students with unbelievable, hands-on experiences in engineering. San Diego State's Formula SAE Team is an organization that combines the core aspects of engineering with Aztec Racing.

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US Green Building Council (USGBC) Push for LEED Certification



San Diego State's Engineering students continue to push toward creating an entirely Green University. Civil and Environmental engineering students from the US Green Building Council (USGBC) at San Diego State are working in partnership with USGBC UC San Diego in hopes of getting the Mission Bay Aquatic Center Leadership and Environmental Engineering Design (LEED) certified.

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Research Proposals

Research Corner - Projects Awarded				
Dr. Arif Engin	ECE	Efficient Simulation Methodology for Complex Power Delivery Networks	NEC Corporation	Awarded
Dr. Adlaw Beyene	ME	Pacific Region Clean Energy Application Center	UC Berkeley	Awarded
Dr. Adlaw Beyene	ME	Combined Heat and Power Field Study	UC Berkeley	Awarded
Dr. Adlaw Beyene	ME	Industrial Assessment Center	US Department of Energy	Awarded
Dr. David Hayhurst Co-pr Theresa Garcia	DNB	STEP Partnership of San Diego	NSF Directorate for Education and Human Resources	Awarded
Dr. David Hayhurst Co-pr Theresa Garcia	DNB	MESA MEP	UC Office of the President	Awarded
Dr. David Hayhurst	DNB	Imperial Valley MESA Summer of Innovation	AERO Institute	Awarded
Dr. David Hayhurst	DNB	SERVICE	NSF Division of Engineering Education and Centers	Awarded
Dr. David Hayhurst	DNB	MESA MSP Programs / Imperial Valley Site	UC Office of the President	Awarded
Dr. Eugene Olevisky	ME	Fabrication of Advanced Armor and Anti-armor Components by Spark-plasma Sintering	DOD Army Armament Research, Development & Engineering Center	Awarded
Dr. Eugene Olevisky	ME	Spark Plasma Sintering Technologies for Refractory Monocarbides	General Atomics Corporation	Awarded
Dr. Fletcher Miller	ME	Sandia Solar Thermal Storage Budget	DOE Sandia National Laboratories	Awarded
Dr. Gordon Lee Co-pr Eric Front, Remy Janou	ECE	Theoretical Analysis, Explanatory Studies and Technical Services	DOD Space and Naval Warfare Systems Command	Awarded
Dr. Gustaff Jacobs	AE/EM	Control of Lagrangian Mixing in Fuel Injector Flows into Supersonic Cross-Stream	California Space Grant Consortium	Awarded
Dr. Gustaff Jacobs	AE/EM	Near-bottom Turbulence and Sediment Resuspension Induced by Nonlinear Internal Waves	Cornell University	Awarded
Dr. Gustaff Jacobs	AE/EM	High-order Particle-train Algorithms Based on Hybrid WENO-spectral Methods for Simulation of High-Speed Particle and Droplet Laden Flows	DOD Air Force Office of Scientific Research	Awarded
Dr. Gustaff Jacobs	AE/EM	Collaborative Proposal: Higher-order Two Fluid Methods for Simulations of Particle-Laden Flow	NSF Directorate for Mathematics and Physical Sciences	Awarded
Dr. Kee Moon	ME	Program for Visiting Students from Kyung Hee University, 2011 Winter School at SDSU	Kyung Hee University	Awarded
Dr. Kee Moon	ME	Engineering Research Center for Sensorimotor Neural Engineering	University of Washington	Awarded
Dr. Kenneth Walsh	CEE	An Integrated Framework for Creation and Assessment of Sustainable Construction Processes	Arizona State University	Awarded
Dr. Kenneth Walsh	CEE	Internship for Student at FM Global (Shaoyu Rakan, Yilan Wei)	FM Global	Awarded
Dr. Kenneth Walsh	CEE	NEESR-OR: Full-scale Structural and Nonstructural Building Systems Performance During Earthquake	UCSD	Awarded
Dr. Khared Morsi Co-pr Drs. Samuel Kashech, Kee Moon	ME	Naval Current-activated Tip-based Sintering - REU Supplement	NSF Directorate for Engineering	Awarded

[Click here to view the Full List of Submissions and Awards](#)