

# CCEE MONTHLY

The Department of Civil, Construction, & Environmental Engineering



COLLEGE OF ENGINEERING

VOLUME 3 ISSUE 8 AUGUST 2017



**Structural**

**Geotechnical**

**Water**

**Transportation**

**Environmental**

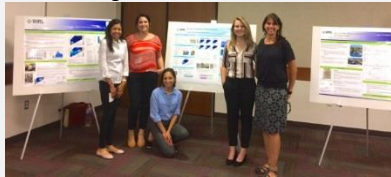
**Construction**

National Ranking for our Civil Engineering Program! For the 2016 Calendar year, the American Society for Engineering Education (ASEE), ranked our Civil Engineering Department at **#20 out of 193** for Bachelor's Degrees awarded!

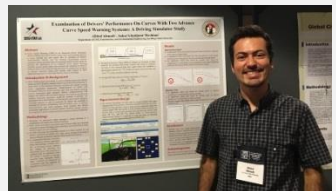
## Engineering Poster Presentations



Two of **Dr. Sahar Ghanipoor-Machiani's** undergrad students had poster presentations at the "Summer Research Programs in Engineering Poster Presentations" which was held on July 20 in the Aztec Student Union. **Maximino Rosales** (pictured above) with his poster "Classifying Driving Behavior on Horizontal Curves" and **Moe Kabli** presented "Evaluation of Traffic Safety and Delay at SDSU Parking Structure Exits."



**Dr. Natalie Mladenov** also had several students present as well. The photo above is of the Water Innovation and Research Lab (WIRL) team: undergraduate researchers **Anita Sanchez, Chelsi Pascua, and Lorelay Mendoza**, grad student **Kristen Snyder**, and WIRL Director **Dr. Natalie Mladenov**.



Also, **Dr. Ghanipoor-Machiani's** graduate student, **Alidad Ahmadi** (pictured above) attended the 8<sup>th</sup> International Conference on Applied Human Factors and Ergonomics (AHFE 2017) and presented the following "Examination of Drivers' Performance on Curves with Two Advance Curve Speed Warning Systems: A Driving Simulator Study."

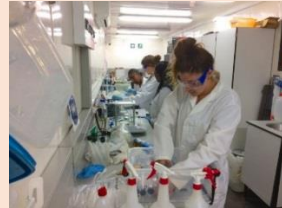
## Design Day Project-Part Two



In our May issue, we noted that one of our Senior Design Day projects was featured in a news story. Recently, the project was mentioned in the news again, and you can see the segment here:

<http://www.kusi.com/story/36072200/coronado-bridge-to-be-updated>

## Research Collaboration in South Africa

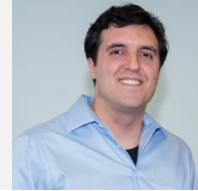


Undergraduate environmental engineering students, **Lauren Steinberg** (at the forefront of the photo above), **Zoë Orandle**, and **Kevin Clack**, conducted 8-week long research projects on decentralized wastewater treatment for water reuse in collaboration with faculty and students from the University of KwaZulu-Natal, scientists from the Bremen Overseas Research and Development Agency, and Cal Poly Pomona. Support for the research is provided by the National Science Foundation Sustainable Sanitation Project led by **Dr. Natalie Mladenov**.

## Grants of the Month

**Dr. Natalie Mladenov** just received a \$300K grant from the National Science Foundation, Environmental Engineering Division, for her project entitled "Enhanced Evaluation of the Removal of Contaminants of Emerging Concern in Decentralized Water Reuse Systems by Non-targeted Analysis". CoPIs on the grant are **Dr. Eunha Hoh** and **Nate Dodder** of Public Health (SDSU) and the Blue Gold Area of Excellence.

## Welcome New CCEE Faculty Member!



Please help us welcome our new full time Faculty Member: **Dr. Matthew Verbyla**! **Dr. Verbyla** is an Environmental Engineering professor who will be joining the department starting in the Fall 2017 semester.

## Visit from a SDSU Alumni



**Dr. Janusz Supernak** received a visit from one of our alumni in the Civil Engineering program. He was in the class of 1992 and is currently serving in the Navy. **CDR Gerry Fernandez** wanted to stop by and see his old school and one of his favorite, but tough, professors. Thanks for stopping by, we always love to see how our former students are doing and succeeding!

## Publication Announcement

**Dr. Julio Valdes'** latest work on dynamic instabilities was recently accepted for publication in Physical Review Letters (IF = 8.5). The paper provides evidence that strain-rate softening is not a necessary condition for the emergence of instability patterns in brittle porous media, and challenges the imposition of strain-rate softening to explain material instabilities (e.g., jerky flow in alloys and stick-slipping in crustal faults).

**Quotes of the Month:** "Be yourself; everyone else is already taken." – Oscar Wilde