

CCEE MONTHLY

The Department of Civil, Construction, & Environmental Engineering



COLLEGE OF ENGINEERING

VOLUME 5 ISSUE 03 MARCH 2019



Structural



Geotechnical



Water



Transportation



Environmental



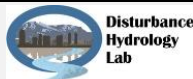
Construction

CONE 520 special guest



On 3/1/19, **Jayne Janda-Timba**, PE, QSD, QSP, ToR, QJSP, Associate Principal at Rick Engineering gave a presentation to our CONE 520 class: "Environmentally Conscious Construction" students on Hydromodification Management, best management practices, and the California Construction General Permit. She also explained the importance of professional certification for students in Civil, Construction, and Environmental Engineering. Thanks for a great presentation!

Collaboration for study on Watersheds

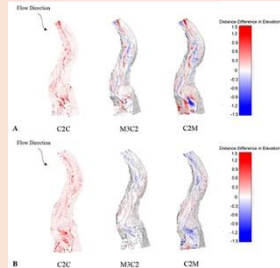


Wildfires in southern California alter hydrologic response in watersheds and contribute to flooding and debris flows. **Brent Wilder** (M.S. Thesis Student) and **Dr. Alicia Kinoshita** are collaborating with CalFire and the Department of Conservation, California Geological Survey (CGS), to evaluate the current methods to predict peak flows following wildfires. This exploratory study will identify watersheds with relevant data and characteristics to evaluate various peak streamflow estimation techniques. This work is intended to provide a better understanding of the performance of sedimentation models and improve certainty in tools for post-fire peak streamflow prediction for post-fire watershed emergency response teams and managers. If you would like to learn more about our research or other research like this, you can check out the Disturbance Hydrology Lab's latest research activities here: <http://akinoshita.weebly.com/>

New Visualab Video

Dr. Victor M. Ponce has produced another video for his Visualab on "The Effect of global climate change on the White Range of Peru." You can find the video here: http://ponce.sdsu.edu/youvideo/video_whiterange.html

Paper Published in Remote Sensing



Samira Nourbakhshbeidokhti and **Dr. Alicia Kinoshita's** published a paper entitled "A workflow to estimate topographic and volumetric changes and errors in channel sedimentation after a disturbance" in *Remote Sensing in Geology, Geomorphology and Hydrology* and is available here: <https://www.mdpi.com/2072-4292/11/5/586/htm>. This research is her third collaborative paper with colleagues from UC Denver and UCSB based on her thesis work at SDSU. *Figure caption:* Comparison of successive ground-based Terrestrial Laser Scanning (TLS) of Williams Downstream reach shows the distance difference in elevation using analytic methods for estimating channel erosion and deposition.

Erasmus + Program



Dr. Janusz Supernak was instrumental in establishing the first Erasmus+ program in Europe for students and professors of SDSU's College of Engineering. This program is 100% paid by the European Union. Because of his long-term collaboration with the prestigious AGH University of Science and Technology (UST) in Krakow, he was invited as a panelist in the week-long Erasmus+ workshop which was attended by delegates from dozens of partners of UST around the world. SDSU was the only US participant at this event, and will remain a principal UST partner in America.

Student Research Symposium 2019



The Student Research Symposium was held March 1-2, 2019 and several of our students presented. **Isaac Musaazi**, **Fei Zhao**, **Jose Calderon** and **Anais Gaunin**, under mentor **Dr. Matthew Verbyla**; **Alyssa Jaramillo** under mentor **Dr. Alicia Kinoshita**; and **Anita Sanchez**, **Federick Pinongcos**, **Denise Garcia**, and **Lauren Steinberg** under mentor: **Dr. Natalie Mladenov**; gave oral and poster presentations on their research. In addition, 4 out of 7 awards given in the College of Engineering went to CCEE students. Congratulations to **Isaac Musaazi (MS)** for winning the Dean's Award for his poster on a "Pathogen Flow Model for Safe Sanitation Decision Support Tool"; **Lauren Steinberg (MS)** received the Provost's Award on "Utilization of a Non-targeted Approach to Develop a Comprehensive Array of Persistent Pollutants in Reclaimed Wastewater"; **Jonathan Cabrera (BS)** also received the Provost's Award for his poster on "Heat Induced Polymeric Stabilization of Clays"; and **Alyssa Jaramillo (BS)** won the "Women in Engineering Award (2nd Place)." Congratulations!



Grad Student Presentation



Federick Pinongcos, one of our Masters students, is shown in the picture above presenting his research at Southwestern College. He shared what kind of contaminants can be found in the San Diego River to 40 undergraduate students. He also spoke to them about research and graduate school.

Quotes of the Month: "Successful and unsuccessful people do not vary greatly in their abilities. They vary in their desires to reach their potential." – John Maxwell