



**California/Nevada Section
Bimonthly Update
November 1st, 2014
Fifty Third Edition**

- * **Officer Team Nominations**
- * **UC Davis Senior Capstone Design uses Motorcycle for Irrigation in Uganda!**
- * **WCIECA Workshop - Soil and Vegetation Management in Response to Drought, November 5**
- * **Mark your calendars! ASABE CA/NV February 11, Tulare, CA**

* **Officer Team Nominations**

Your officer team needs your help. Many of the long standing members of the ASABE CA/NV officer team would like to roll off to pursue other ventures. Some more fresh blood (well, not really blood but energy and enthusiasm) is needed to invigorate the Section and our activities. Please contact Carolyn Jones and Victor Duraj if you are interested in participating. The time commitment is limited to an hour or two every two months and about a day once a year in February.

* **UC Davis Senior Capstone Design uses Motorcycle for Irrigation in Uganda!**

It's exciting to visit the Senior Capstone Design Showcases that our local universities host. The ideas, enthusiasm, and ingenuity that the students display are contagious! Here are two students that exhibited their project last June.



Student team Wayland and Noelle, on back of a motorcycle!

“What a privilege it has been, to take a project from the design side all the way to implementation in another country! Our work on the Mobile Irrigation System student project began at UC Davis,

finding a solution to mount 200 pounds of irrigation equipment onto a moving motorcycle for use in Ugandan agriculture. The following summer, we traveled to Uganda and put our work to practice. Our main challenges shifted from design and analysis to communication with local fabricators and finding solutions to problems in the field with limited resources.

Through bad weather, power outages, and transportation issues we

persisted, and succeeded in forming connections with several farming communities using this irrigation technology.”

-Noelle Patterson, UCD Biological Systems Engineering, 2014



Completed Mobile Irrigation System, ready to roll.



Noelle and Wayland working in the shop with their fabricator.

“Success on the Mobile Irrigation System project stemmed from our technical and interpersonal skill sets. With a foundation of SolidWorks modeling, physical prototyping, and theoretical knowledge, we brought in skilled and influential partners. Though circumstances - imprecise equipment, poor materials, and power outages - hampered progress, focused improvisation yielded a robust prototype, successful field-tests and improved iterations. Finally, we stayed aware of our main objective amidst the chaos and ensured that the technical documents, as well as the trained personnel, were prepared



Getting help rolling lay flat hose during a farm demonstration.

for the commercial production of the Mobile Irrigation System.”
-Wayland Singh UCD Biological Systems Engineering, 2014

*** WCIECA Workshop - Soil and Vegetation Management in Response to Drought, November 5**

Western Chapter IECA with the help of the California Water Board, Caltrans, UC Davis, USDA NRCS, CalPoly SLO plus expert consultants from select companies, have come together as a group to share strategies dealing with this year's drought in California affecting many in the green industry. Continuing education credits: 8 CPESC/SWPPP PDHs. Come and hear from many significant industry speakers including Greg Gearheart, Jack Broadbent, Charles Burt, and Vic Claassen. Wednesday, November 5th, 2014, Rancho Cordova, CA, 8:00 am-4:30 pm. Go to <http://www.wcieca.org/latest-news/20-latest/139-soil-and-vegetation-management-in-response-to-drought-sacramento-area-symposium.html> for more information.

*** Mark your calendars! ASABE CA/NV February 11, Tulare, CA**

Your officer team is currently looking for the keynote speaker(s). We're considering a topic that merges worker safety and agricultural machinery! Keep an eye out for updates!

- For previous editions of the Update, please visit www.asabecanv.org.
- If you have questions or comments, feel free to contact Carolyn at 707-678-1655x117 or carolyn.jones@ca.usda.gov.
- If you have ideas for Update items or would like to get involved in the leadership team, please let us know.