

# THE BRAE WEEKLY

The Weekly Newsletter for the BioResource & Agricultural Engineering Department



## WEEK 9~ November 27<sup>th</sup>, 2018

Welcome back to the end of Fall Quarter Mustangs! There are just a FEW weeks left. Be sure to begin preparing for finals early!

For graduating students, commencement information is available at

<https://commencement.calpoly.edu/fall>

The schedule for Saturday December 15th is:

Ceremony Schedule

Saturday, December 15 | Cal Poly Recreation Center Main Gym (Bldg. 43)

**9 a.m.** | College of Agriculture, Food and Environmental Sciences and College of Science and Mathematics (view livestream)

1 p.m. | Orfalea College of Business and College of Liberal Arts (view livestream)

4 p.m. | College of Architecture and Environmental Design and College of Engineering (view livestream)

Immediately following each ceremony, participants and guests are invited to attend a reception in the Julian A. McPhee University Union Plaza (Bldg 65).

Following the main ceremony, the BRAE Department will be hosting a post graduation celebration for students, families, and supporters.

More information to come!

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# \$30,000 in prizes to Cal Poly Innovators

The Cal Poly Center for Innovation & Entrepreneurship's annual Innovation Quest Competition is kicking off this week. Join the ranks of Cal Poly's entrepreneurial alumni like the founders of iFixit, Passion Footwear, Grinds, Flume Technology and more who competed in this annual competition as students, and have since launched businesses that are reshaping the world we live in. You'll be pushed to take your ideas, start developing prototypes, and communicate the business potential of your innovation. It's not about a "business plan", it's about innovating and building a business around the innovation. If you have an idea, or are looking to find others to work with, this is for you.

What: Innovation Quest Information Session

When: Thursday Nov. 29th 6:00-7:30pm

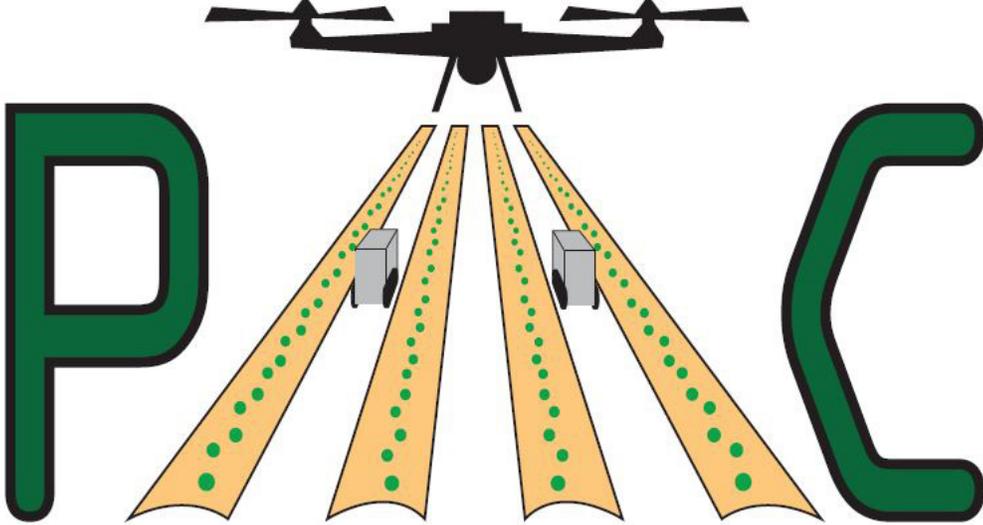
Where: Nash Family Entrepreneurship Lab (002-210)

Why: You have an idea you want to work on that could change the world (plus I think we already mentioned the prize money)

Registration and Pizza will occur between 6:00-6:30pm with information on the competition starting at 6:30pm. If you need more information, please contact Professor Tom Katona ([tkatona@calpoly.edu](mailto:tkatona@calpoly.edu))

# November/December Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
25	26	27 CAFES Council Meeting 5:10PM 08-122  Tractor Pull Meeting 7:00PM 08-122	28 ASI Board of Directors Meeting UU220 5:10PM	29 AES Barbecue BRAE Ramp  PAAC Meeting 11:00AM & 6:00PM 8A-4C	30 Quarterscale Meeting 12-1 8A-33	1	
2	3	4	5 Third AES General Meeting 6PM in Lab 1	6 AES Barbecue BRAE Ramp  PAAC Meeting 11:00AM & 6:00PM 8A-4C	7 Final Day of Academic Instruction	8	
9	10	11	12	13	14	15 CAFES Fall Commencement 9AM Main Gym	
		<b>FINALS WEEK</b>					
16	17	18	19	20	21	22	



# Precision Ag. and Automation Club

Meetings are Thursdays 11-12 pm and 6-7 pm in room 8A-4C in lab 4.  
Call or text 760-468-6076 if you need help getting there :)

## This Week's Meeting

### 3D Printing

This week, we'll be wiring and programming tabletop robots! Laptops encouraged but not required.

## Project of the Week

### Tabletop Robot Design

Help us design the base of our line following robots!

## AgBot Challenge

PAAC is competing in both the Weed and Feed and Soil Sampling competitions. Information about past competitions can be found below!

[Info Here!](#)

## ASABE Robotics Competition

Every year, PAAC builds tabletop robots that accomplish harvesting tasks. We recently received the tentative guidelines for this year's competition! Click below for the details!

[Info Here!](#)



## CalPortland Company

CalPortland is a major building materials and construction solutions provider proudly serving our customers since 1891 in the Western United States and Canada. We take pride in providing solutions to your greatest construction challenges with expertise in cement production, ready mix concrete, aggregate, asphalt, construction services, as well as concrete products and other building materials.

Job Title:	Project Engineer	August 20, 2018
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### Job Description

#### Job Summary:

This position is responsible for pre-bid take-off, estimating support, project setup, project coordination, cost information, special projects and technical engineering to ensure successful construction projects and contribute to the success of the construction Division.

Job Location:	Santa Maria, California	Construction
Functional Area:	Management	9/4/2018
Employment Status:		
Manages Others:		Construction Manager

### Responsibilities

#### Duties:

- Perform accurate and timely quantity take-offs for project estimation using AGTEK, AutoCAD, Bluebeam and manual quantification methods.
- Assist with project controls to ensure compliance with the contract, quality metrics, budget, schedule, job costing and forecasting.
- Understand and interpret plans and specifications. Timely prepare RFI's for additional information.
- Process submittals, distribute as required, timely procure specified materials to meet project schedule and budgetary needs.
- Provide technical engineering including AutoCAD drawings, engineering calculations and field layout.
- Document production statistics, produce reports and forecast projects as required.
- Schedule and manage subcontractor's and service providers to meet the schedule.
- Maintain duties related to OSHA regulations, including accident investigation and reporting, safety meetings, training, etc. Actively engages with the employees to reinforce safe behaviors. Ensures that safety, compliance and environmental requirements are followed.
- Maintain working relationships with all departments to ensure work objectives can be met.
- Provide environment where dynamic project communication occurs between the project Team.
- Ability and willingness to abide by CalPortland's Core Values on a daily basis.
- Develop and manage all phases of WPCP's and SWPPP's.
- Assist the Superintendent with material procurement, rental equipment and dispatch of resources.
- Assist in special projects.

Career Level:		
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### Skills

## Irrigation Design Engineer

Irrigation-Mart is a family-owned irrigation distribution business that opened in 1978. Today we have 3 locations, our Corporate Headquarters in Ruston, LA and a satellite offices in Baton Rouge, LA and San Juan, TX. Irrigation-Mart is a leading distributor for irrigation, drainage, and hardscape products for the agricultural, nursery, forestry, and landscape markets.

### Primary Product Lines

Agricultural: Netafim, Jain, Toro, Rivulis, Kifco, Yardney, Fresno Valves, and others.

Landscape: Weathermatic, Toro, Irritrol, RainBird, K-Rain

Drainage: ADS/Hancor, NDS, East Jordan Iron Works, Nyloplast and many more.

Hardscape: Versa-Loc, Belgard, and others.

We currently have an opening for an Irrigation Design Engineer at both our Ruston, LA, and San Juan, TX locations. This is a full-time, front-line sales/design/technical support position. The preferred candidate for this position should have 3-5 years of industry experience. Applicants should possess a strong work ethic and be able to work in a team atmosphere with a sense of urgency while providing assistance to our large customer base in parts selection, up-selling and accessorizing either in person or by telephone.

### Essential Functions and Responsibilities:

- Irrigation system design with focus in microirrigation
- Provide our customers technical product assistance & advice for their irrigation and drainage related needs
- Assist customers through the entire sales process of asking for the sale, order entry, order pulling, and assisting the customer to load the order as needed
- Follow proper procedure in handling cash tickets & balancing cash drawer
- Work with our sales/support team to enhance customer satisfaction
- Assist with scheduling and ensuring timely delivery of product
- Work with other associates to facilitate a team atmosphere
- Process warranties & returns. Ensure warranty returns are expedited to the manufacturer
- Assist other associates and departments when necessary
- Maintain a neat & efficient workspace
- Monitoring inventory to ensure availability of regularly purchased items. Work with Purchasing Department to ensure maximum efficiency of inventory management
- Assists with inventory spot counts and all forms of inventory control
- Occasional overnight travel in order to meet with customers
- Other duties as assigned which may include driving company vehicle

Irrigation-Mart offers a highly competitive compensation package that includes healthcare, retirement, paid holidays, and vacation time.

Job Type: Full-time

Job Location: Ruston, LA

Required Education: High school or equivalent

### Desired Experience/Requirements:

- Irrigation Design Experience: 2 years
- Inside / Counter Sales: 2 years
- Landscape, Irrigation or Green Industry product knowledge: 2 years
- Customer Service: 2 years

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### Primary Product Lines

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Drainage: ADS/Hancor, NDS, East Jordan Iron Works, Nyloplast and many more.

Hardscape: Versa-Loc, Belgard, and others.

We currently have an opening for an Inside Sales Representative / CSR at our Ruston, LA location. This is a full-time, front-line sales position. The preferred candidate for this position should have 3-5 years of industry experience. Applicants should possess a strong work ethic and be able to work in a team atmosphere with a sense of urgency while providing assistance to our large customer base in parts selection, up-selling and accessorizing either in person or by telephone.

### Essential functions and Responsibilities:

- Provide our customers technical product assistance & advice for their irrigation, drainage, and hardscape related needs
- Assist customers through the entire sales process of asking for the sale, order entry, order pulling, and assisting the customer to load the order as needed
- Follow proper procedure in handling cash tickets & balancing cash drawer
- Work with our sales/support team to enhance customer satisfaction
- Assist with scheduling and ensuring timely delivery of product
- Work with other associates to facilitate a team atmosphere
- Process warranties & returns. Ensure warranty returns are expedited to the manufacturer
- Assist other associates and departments when necessary
- Maintain a neat & efficient workspace and aid in restocking the showroom and parts bins
- Monitoring inventory to ensure availability of regularly purchased items. Work with Purchasing Department to ensure maximum efficiency of inventory management
- Assists with inventory spot counts and all forms of inventory control
- Other duties as assigned which may include driving company vehicle

Irrigation-Mart offers a highly competitive compensation package that includes healthcare, retirement, paid holidays, and vacation time.

Job Type: Full-time

Job Location: Ruston, LA

Required education: High school or equivalent

### Desired experience/Requirements:

- Inside / Counter Sales: 3 years
- Landscape, Irrigation or Green Industry product knowledge: 2 years
- Customer Service: 3 years



# Weekly Announcements

Hi EWB,

We hope you had a relaxing break! Here is what you have to look forward to in the coming week.

Meetings:

Monday-  
Critical Global Engagement Club,  
Project Team Meetings,  
IMPACT

Wednesday -  
General Meeting

Friday-  
Tea Time

Announcements:

We will be having a general meeting this Wednesday at 7:10pm in 10-115. We will be sharing what we learned at the EWB-USA National Conference and we would love to have everyone there!

Breakfast for Dinner:  
Stressed from finals? Need a study break? Love Breakfast food? EWB has just the thing for you!  
Join us for EWB's Breakfast for Dinner! Next Thursday evening, 12/6.  
Please fill out this form if you're interested in attending.

Meetings:

General Meeting: For this week's general meeting, we will be sharing what we learned at the EWB-USA conference. These range from how other chapters operate to how climate change is affecting the communities we partner with. If you think you might be interested in attending next year's conference, we highly encourage you come to this meeting so you have an idea of what happens at the conference! The meeting will be at 7:10 in 10-115.

Critical Global Engagement Club:  
Part of EWB's mission is to "empower communities to meet their basic human needs." This mission is admirable, but what does it look like in practice? What does it mean to empower a community? How can we confront the complex power structures that have inhibited communities from meeting their basic human needs? These questions have no simple, distinct solution. Critical Global Engagement (CGE) Club is partnering with EWB to host discussions and further projects to explore these questions. Tomorrow we will be having a discussion and setting goals for future quarters. Join us Mondays 6:00-7:00 pm in building 38 room 220!

Project Meetings are every Monday from 7:00-9:00 pm for Local Projects, Nicaragua, and Malawi, and 8:00-10:00 pm for Fiji and Thailand. Feel free to try out different project teams and be sure to introduce yourselves to the PMs if you're new to EWB!

Here are the team room locations:

- Fiji: 38-121
- Local Projects: 38-204
- Thailand: 38-219
- Nicaragua: 38-220
- Malawi: 38-225

IMPACT: IMPACT, Engineers Without Borders' volunteering team, works with nonprofits across SLO County to carry on the tradition of thinking globally and acting locally. IMPACT organizes volunteering events that unite EWB members and fellow Cal Poly students with local nonprofits dedicated to the community EWB Cal Poly knows and loves. This quarter we will be researching ways to improve our annual EWB IMPACT Weekend that is scheduled for the end of winter quarter. Meetings are held Mondays 10:00-11:00 am in the library fishbowl 216S. THERE WILL BE SNACKS!!! All are welcome!

Tea Time Tea Time will be from 11-12 pm on Friday behind Julien's Cafe in the library. Come hang out with the Pres. and VP to have any questions answered about the club.