

BRAE WEEKLY



Engineering Systems Management Support for Agriculture
The Weekly Newsletter for the BioResource and Agriculture Engineering Department
Week 1 ~ September 25, 2019



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Announcements
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Sept-Oct Calendar



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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
22	23	24	25	26 AES Barbecue BRAE Ramp PAC 11am-12pm ASM & BRAE FREE Welcome Back BBQ 5-7	27	28
29	30 Grow Crew Meeting Lab 4 1-2pm	1	2 Tractor Pull Meeting 8-122 7pm	3 AES Barbecue BRAE Ramp AES Meeting 6-8 PAC 11am-12pm	4	5
6	7	8	9	10 AES Barbecue BRAE Ramp PAC 11am-12pm	11	12
13	14	15	16	17 AES Barbecue BRAE Ramp PAC 11am-12pm	18	19

Faculty and staff:

Are your students struggling to meet their basic needs?

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Basic Needs Facts



27%

of Cal Poly students report **experiencing food insecurity** in the last year.



12%

of Cal Poly students report **experiencing homelessness** in the last year.



The highest rates of food insecurity (66%) and homelessness (18%) were experienced by **students of color and first-generation students**.

Free Cal Poly Resources



CalFresh Outreach
Lower Level of Health Center
Mon & Tues 2pm–4pm
Weds & Thurs 11am–1pm

P (805) 399–0236
E calfresh@calpoly.edu



Cal Poly Food Pantry
Lower Level of Health Center
Mon, Tues, Thurs, Fri 8am–4:30pm
Wednesdays 9am–4:30pm

P (805) 756–6181



Meal Vouchers
Dean of Students, Bldg 81

P (805) 756–2472
E deanofstudents@calpoly.edu



Food Bank Distribution Site
Mott Lawn/Tahoe Rd.
4th Tuesday of every month
4:30pm–6pm

slofoodbank.org/food-distributions

Hungry but spent all your money?

Get to know your FREE Cal Poly resources

FOOD PANTRY



FREE FOOD AND MORE

Bring your Cal Poly ID to access free healthy foods, personal hygiene products, and more.

Campus Health and Wellbeing

Bldg 27, Lower level (PULSE)

Mon, Tue, Thu, and Fri:

8am - 4:30pm

Wed: 9am - 4:30pm

805.756.6181

CALFRESH OUTREACH



FINANCIAL AID FOR FOOD

CalFresh provides eligible students with an average of \$150 per month to buy food at grocery stores and farmers' markets. Come talk to our team to find out more and check your eligibility.

Campus Health and Wellbeing

Bldg 27, Lower Level (PULSE)

Mon & Tues: 2pm

Wed & Thurs: 11am - 1pm

805.399.0236

calfresh@calpoly.edu

MEAL VOUCHERS



GET FREE MEALS ON CAMPUS

If you are experiencing problems accessing enough food, visit the Dean of Students Office to learn more about free meal vouchers for on-campus meals. Bring your Cal Poly ID.

Dean of Students

Bldg 81

805.756.2472

deanofstudents@calpoly.edu

SLO FOOD BANK



CAMPUS FOOD BANK DISTRIBUTION SITE

Let SLO Food Bank help you with free food this month. Get free, fresh produce and pantry items once a month on campus. Just show up, everyone welcome!

Mott Lawn/Tahoe Rd.

4th Tuesday of every month

4:30-6pm

www.slofoodbank.org



www.basicneeds.calpoly.edu



WELCOME BACK BARBEQUE

- FREE TRI TIP DINNER ●
- ASM & BRAE MAJORS ●
- BRAE Ramp ●
- HOSTED BY BRAE FACULTY ●
- GUESTS \$5 ●



FUN 5PM
DINNER 6PM

26
SEPT



CAL POLY AES

Agricultural Engineering Society

WHO : Cal Poly BRAE & ASM Major Concentration (all majors welcome)

WHAT : A professional club that promotes experience in industry as well as developing connections with industry professionals

WHEN : First meeting-- October 2nd 6-8pm

WHERE : BRAE Lab 1

WHY : To give professional opportunities to Cal Poly students by allowing them to associate with industry professionals as well as another learning outlet to discover the variety of career paths they can take with their major

HOW : By being present and engaged, and enjoying a great BBQ!), Cal Poly Students will have access to more personalized information about their future within the Cal Poly BRAE Department as well as their career following college



CAL POLY GROWCREW

WHO : Cal Poly BRAE & ASM Major Concentration (all majors welcome)

WHAT : Grow Crew is a club for those interested in alternative forms of agriculture including hydroponics, aquaponics, and aeroponics. Within this club members will work in the lab to care for, learn about, and enhance their knowledge and practices

WHEN : Sept 30th 1-2pm

WHERE : BRAE Lab 4 (upstairs)

WHY : To give hands on opportunities to Cal Poly students by allowing them work with Cal Poly's equipment and continue discovering and improve the quality of alternate forms of farming

HOW : Join by coming to any meeting, no prior knowledge or experience required, simply a desire to learn more about alternate farming practices! Meetings will tentatively be every Thursday in BRAE lab 4 from 11-12pm.



Cal Poly Tractor Pull 1st Meeting

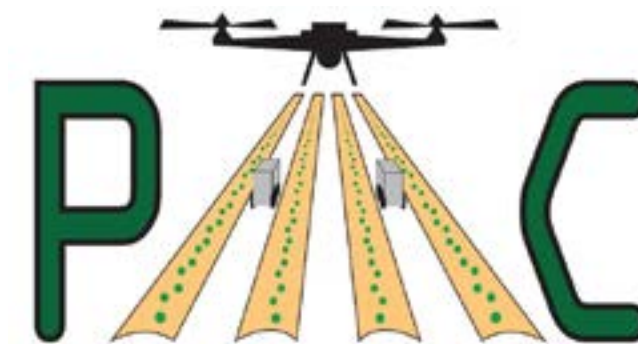
October 1st 2019

7pm – Building 8 – Room 122

Free dinner will be provided, come meet the members & learn what tractor pull is all about!



All majors welcome!



Precision Ag. and Automation Club

CAL POLY PAC

Precision Automation Agriculture

WHO : Cal Poly BRAE & ASM Major Concentration (all majors welcome)

WHAT : A club in which members get hands on experience working on projects from a technological standpoint while enjoying good company and pizza!

WHEN : Every Thursday 11am-12pm

WHERE : BRAE Lab 4C

WHY : To give hands on oppertunites to Cal Poly students by allowing them work with Cal Poly's equipment and continue discovering and improve the quality of precision agriculture

HOW : Weekly meetings are happening all year. Find out about club projects, meet teammates, and learn the basics of robotics!

Don't worry if you can't make weekly meetings, the Lab is frequently open during the week. Lab hours are posted by the door, and additional hours can be allocated upon request.



PAAC
11-12 on Thursdays.
Building 8A, Lab 4C.
Free Pizza and Robots!



CAL POLY "POLYBUILT"

1/4 Scale Tractor Design Team

WHO : Cal Poly BRAE & ASM Major Concentration (all majors welcome)

WHAT : The PolyBuilt team is a student run, extracurricular, academic-related organization within the BioResource and Agricultural Engineering Department. Each academic-year the team designs and builds a powerful tractor from the ground up, one-quarter the scale of a full size tractor. The objective of this tractor is to compete in the ASA-BE (American Society of Agricultural and Biological Engineers) International Quarter Scale Student Tractor Design Competition, held in Peoria, Illinois. Since our first year of competition in 2000, we have relied on contributions from the college and the community.

WHEN : TBD

WHERE : TBD

WHY : Cal Poly's unique learning experience is a result of its Learn by Doing mentality; the PolyBuilt Team has exemplified this methodology by giving students the opportunity to participate in design, fabrication, event coordination and leadership roles. Students that participate in the PolyBuilt Team gain valuable experience that puts them ahead of their peers when entering the professional workforce.

HOW : Attend a meeting to get involved!



Internship and Employment Opportunities¹¹

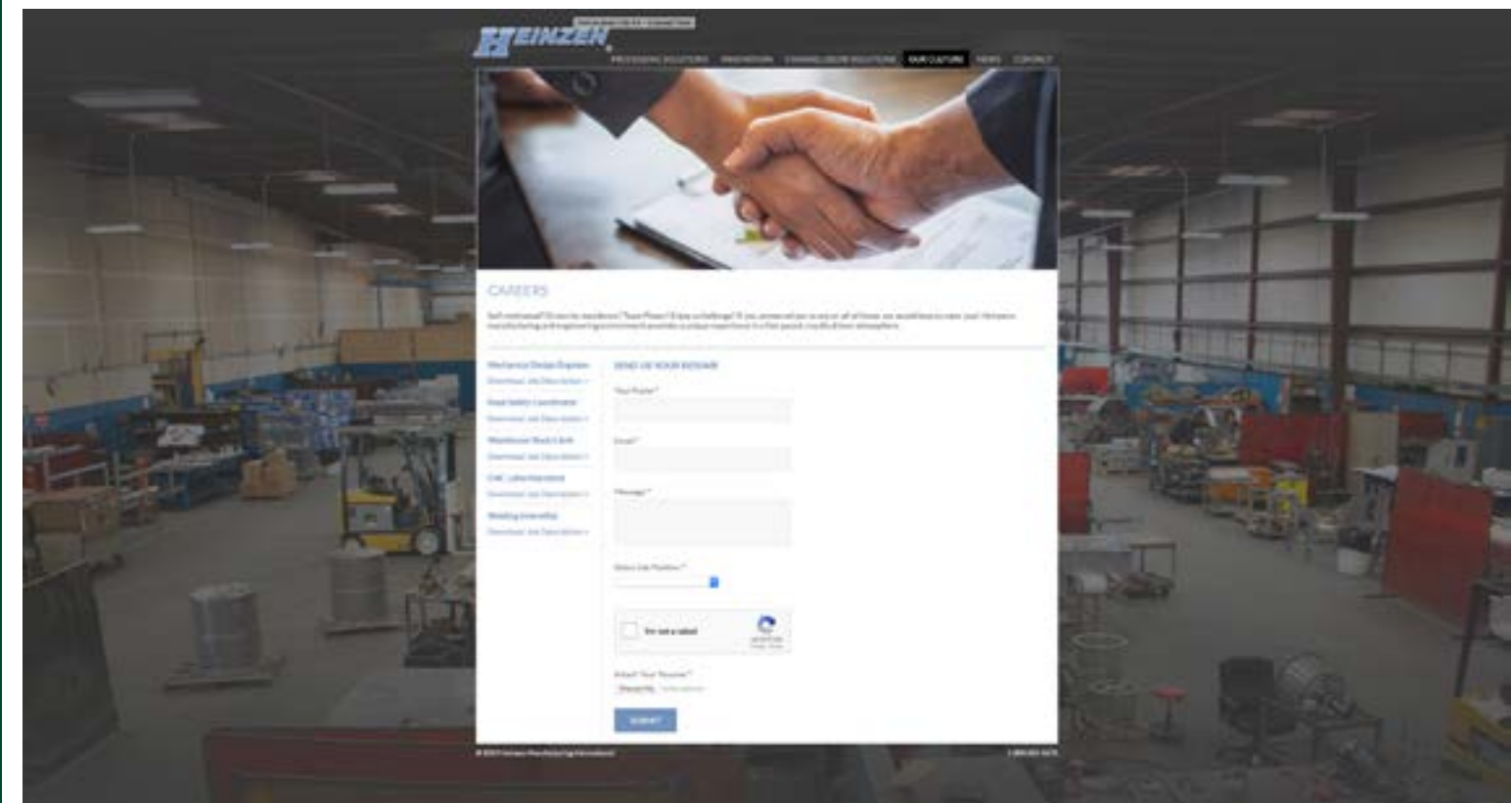
ASM and BRAE students and graduates are in high demand!

Check out www.brae.calpoly.edu/students/employment for even more postings!

Career Services can help you explore career options, prepare for your internship/job search, connect with employers, and more! Please visit their website for information on the services and resources they provide.



Heinzen is looking for soon to be Cal Poly graduates interested in a career in mechanical design and engineering. The position will take place in Gilroy, CA. Included is a link to their application and you can visit their website for more information.



<https://www.heinzen.com/our-culture/careers>

COME WORK AND PLAY WITH US ON 71.5 ACRES OF ECUADORIAN FARMLAND!



SUSTAINABLE BAMBOO ARCHITECTURE AND AGROFORESTRY

UPCOMING INFO SESSIONS:

9/16 5 PM ONLINE
9/17 5 PM ONLINE
10/1 5 PM Kennedy Library Fishbowls
10/2 5 PM Kennedy Library Fishbowls

CONTACT US ASAP TO RSVP
FOR A SESSION AND GET MORE
INFORMATION:

Cal Poly Campus Reps
ELLE HARLOW
BRYN SHORT
HANNAH MCKAY
rfi.calpolyslo@gmail.com

Check us out!
www.regenerationfieldinstitute.com

@regenerationfieldinstitute @losarbolerosfarm

COURSES IN BAMBOO CONSTRUCTION
AND ORGANIC FARMING IN
COASTAL ECUADOR!



WINTER SESSION:
DECEMBER 27TH-
JANUARY 5TH



Develop agroforestry and
bamboo cultivation techniques
to restore soil fertility



Join a community of sustainably
minded change-makers and
create long lasting friendships



Construct with local species of
bamboo to revitalize
post-earthquake Manabí



2019 MCAA ASHRAE COMPETITION

COMPETE FOR THE 2019 MAC
AWARD AND CASH PRIZES!

NOV 16-17, 2019
CAL POLY,
SAN LUIS OBISPO

Join us November 15th for a
student mixer!

Sign up here!



Project will consist of
designing an indoor
plant grow room.
Students will apply
HVAC design concepts
to control the grow
room environment
while optimizing
energy usage through
equipment selection
and using renewable
energy sources to
achieve NET-ZERO



CAFES Research Seminar Series

Fall Quarter 2019

Please join CAFES for our
Research Seminar Series ~ Fridays this Fall
Pizza will be served!

Erhart Agriculture Bldg. 10, Room 206 12:10 - 1:00 p.m.

- Physiological Reaction to Odorants: Carmen Licon, Dept. of Food Science and Nutrition, Fresno State (09/27)
- Dairy Waste Management Research: Tryg Lundquist, Dept. of Civil and Environmental Engineering, Cal Poly, SLO (10/4)
- Food Rheology: The Scientific Smushing of Food: Helen Joyner, Dept. of Food Science and Nutrition, Univ. of Idaho (10/11)
- Water and Weather Issues for Central Coast Agriculture: Mark Battany, UC Cooperative Extension (10/18)
- Disentangling the Local and Landscape Determinants of Pests and Pesticides: Ashley Larsen, Bren School of Environmental Science and Management, UCSB (10/25)
- Exploring the Ecological Impacts of a Novel Land Use: Utility Scale Solar Fields: Seeta Sistla, NRES, Cal Poly, SLO (11/1)
Location TBA
- 2018 Annual Crop Statistics for SLO County: Martin Settevendemie, Agricultural Commissioner, SLO County (11/8)
- Grazing Behavior and Physical Activity Influences on Metabolism and Performance: Zach McFarlane, ASCI, Cal Poly, SLO (11/22)
- Temporal Changes in the Soil Microbiome in Response to Soil Fumigants: Shashika Hewavitharana, HCS & Strawberry Center, Cal Poly, SLO (12/6)

For questions, please call Marnie Perry at 805 756 2161

CAL POLY
College of Agriculture, Food
& Environmental Sciences