Engineering Systems Management Support for Agriculture
The Weekly Newsletter for the BioResource and Agriculture Engineering Department

Week 5 ~ October 21st, 2019

AES @ Giant Pumpkin Contest

Cal Poly Opportunities
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Club Announcements
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Career Opportunities
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<th>Sunday</th>
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<td>CAFES Council</td>
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<td>CAFES Research</td>
<td>10am-3pm (Looking for volunteers -- contact AES)</td>
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<td>Fall Sports Day</td>
<td>CAFES Council</td>
<td>AES General Meeting Lab 1</td>
<td>AES Barbecue</td>
<td>CAFES Research Seminar: “2018 Annual Crop Statistics for SLO County”</td>
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<td>12-1pm Volleyball at the rec</td>
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<td>VETERANS DAY</td>
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Apparel Order Form

Due to the BRAE Office by 11/08/19
INCLUDING PAYMENT
Make checks payable to Cal Poly

 Sizes:
XXL= +$2.00/item
XXXL= +$5.00/item

Soft Shell Jacket- Charcoal
QTY: ______ x $56.00= ______
Circle One: Men’s / Women’s
Size: _________

Soft Shell Vest- Black
QTY: ______ x $55.00= ______
Circle One: Men’s / Women’s
Size: _________

Men’s Polo Shirt-Black/Charcoal
QTY: ______ x $35.00= ______
Size: _________

Women’s Polo Shirt- Black/Charcoal
QTY: ______ x $35.00= ______
Size: _________

Button Down Shirt
QTY: ______ x $40.00= ______
Circle One: Green / Khaki
Size: _________

Long Sleeve Shirt- Charcoal
QTY: ______ x $24.00= ______
Size: _________

Richardson 112 Trucker Hat
Dark Green/White
QTY: ______ x $20.00= ______
Heather/Black
QTY: ______ x $20.00= ______

Name: ____________________________________________
Email: _____________________________________________
Quantity: _________________________________________
Price: ____________________________________________

Prices may be subject to change after expiration of this order form.
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!

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

Sign up here!
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
**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:** November 6th 6pm-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

Follow @calpolyaes on Instagram and Facebook
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:** General Meetings: Last Monday of the Month, Weekly Meetings: Every Thursday 11-12pm

**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.
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 6pm-7pm

WHERE: BRAE

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 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.

CONTACT: paac@calpoly.edu
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: Wednesday 6pm-7pm

WHERE: Upstairs Lab 4

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 or contact Danté Panattoni!
Internship and Employment Opportunities

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

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

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:
Regeneration Field Institute
Check us out!
www.regenerationfieldinstitute.com

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

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

COURSES IN BAMBOO CONSTRUCTION AND ORGANIC FARMING IN COASTAL ECUADOR!

www.regenerationfieldinstitute.com
**Job Title:** Irrigation Engineer

**Job Summary:**

Laurel Ag is the premier irrigation supplier in California. We have combined the vast experience of growers, engineers, entrepreneurs and innovators to bridge the gap between the grower and irrigation innovation. The engineering staff at Laurel Ag fulfill the essential function of developing and designing solutions for our customers. They provide the technical expertise and knowledge that forms the basis for a variety of irrigation related construction projects.

**Responsibilities & Duties:**

- AutoCAD-IrriCAD Link drafting and design
- Irrigation system design (drip/micro, sprinkler, flood, indoor, mechanical move, etc)
- Pump station design
- Filter design
- Reservoir & open channel design
- Electrical design
- Scope of work and project phasing definitions
- Material selection and product specification
- Value engineering and cost analysis
- Occasional job site data acquisition
- Continuously strives to improve processes and performance to achieve company goals.
- Reports to VP of Design & Business Development

**Skills & Qualifications:**

- B.S. BioResource & Agricultural Engineering or similar degree
- Advanced skills in critical software applications, such as AutoCAD & Microsoft Office
- Great understanding of hydraulics and pipeline design
- Strong understanding of soil water relationships and soil science
- IrriCAD experience is a plus
- Expert in problem analysis and creative problem solving

**Compensation & Benefits:**

- $50-75K DOE
- Medical, Dental & Vision
- Retirement plan option

**Contact:** Curtis Lutje  clutje@laurel-ag.com  (661)-432-8115
You’re almost halfway through fall quarter! Have you taken advantage of all the resources available at Career Services yet? Our team is ready to support students of all majors and years. Be sure to check out all that Career Services has to offer...

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<th>Monday, October 21</th>
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<tbody>
<tr>
<td>10:00am       Cal Poly Career Connections Sign-up Booth</td>
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<td>5:00pm        Amgen - Summer 2020 - Information Systems Internship Opportunities</td>
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<th>Tuesday, October 22</th>
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<td>10:10am       Internships in Government &amp; Politics Panel</td>
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<td>11:10am       Negotiating Offers and Salaries</td>
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<td>5:30pm        Cushman &amp; Wakefield PREP Info Session</td>
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<td>6:00pm        Career Services Library Drop In</td>
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<th>Wednesday, October 23</th>
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<td>11:00am       Thermo Fisher Scientific - Information Table</td>
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<td>6:30pm        Mortenson Information Session</td>
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<th>Thursday, October 24</th>
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<tr>
<td>9:30am        Cal Poly 2019 Construction Management Career Fair - Jobs &amp; Internships - Construction Management</td>
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<td>11:10am       Navigating Your Job or Internship Search for Transfer Students</td>
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<td>4:10pm        Change of Major Workshop</td>
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<td>5:00pm        NBCUniversal Information Session</td>
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