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<td>6 AES General Meeting Lab 1</td>
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<td>8 CAFES Research Seminar: “2018 Annual Crop Statistics for SLO County”</td>
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ISSUES AFFECTING CALIFORNIA AGRICULTURE

Wed & Fri, 10:10 a.m. – 12 p.m. in 10-206

Course Summary:

- Series of interactive seminars with speakers from government and industry, covering policy and regulations affecting California agriculture and natural resources.

- Maximum of 20 students allowed.

Key Assignments:

- Work in teams to develop a public presentation and position paper on a significant issue.

- Field trip to Sacramento.

Prerequisites:

- Completion of GE Area D2 (Econ 201 or ECON 222) recommended

- Junior Standing

- Must be referred by your Department Head

Please see your Department Head if interested in pursuing this course.

DUE FRIDAY OCT 18th
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.
Want to get involved with sustainability but don't know where to start? Get to know the sustainability clubs and the community they create by attending the Sustainability Speed Dating event this Tuesday, from 6:10-8:00pm in UU 220. Check out clubs, talk to members, get a snack, and grab some club gear while getting to know the community. See you there!
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)
- 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

“Data science as a field is being driven by increased demand for statistical applications across disciplines, increased quality of digital information, computing capacity to handle that information, increasing scope of open source software and open science approaches throughout various fields. Teaching data science often requires elements of computer science coding and statistical inference at the same time. UC Berkeley has created a large and popular introductory class in coding and statistics, accessible to all students at the university, and is a replacement for a statistics prerequisite that many majors have. The hurdles encountered in developing this curriculum and the benefits of this pedagogical approach will be presented during this event.

Note: Dr. Van Dusen will be available for drop-in office hours and demos from 1:30-3pm

Interested in data science (or big data, or data analytics, etc., by whatever name)? Check out the talk on 10/17 by Dr. Eric Van Dusen from UC Berkeley.

Cal Poly
College of Agriculture, Food & Environmental Sciences

OCT 17th

“The Pedagogy of Data Science: Experiences from UC Berkeley,” will be presented by Eric Van Dusen, director of curriculum in the Division of Data Science and Information at UC Berkeley.
11 a.m. to noon Thursday, Oct. 17, in the Business Building Silo (No. 3), Room 213.
Thank you to all our volunteers for helping introduce prospective students to the BRAE Department. It is the personal connections that point students towards Cal Poly.
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
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.
CAL POLY PAAC
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 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: 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 or contact Danté Panattoni!
WHO: Cal Poly Women Engineers

WHAT: As you may be aware, each Fall quarter, The Society of Women Engineers hosts one of our biggest events: Fall SWE Welcome. Fall SWE Welcome is a 2-day event where high school students get to shadow an engineering student and experience the Cal Poly way of life in a one-of-a-kind on-campus experience. This year, one of our goals was to make sure that our volunteers came from a variety of backgrounds, majors, years, personal interests, etc., to provide high school and transfer students the best possible experience in their pairings. In order to fulfill this goal, we're expanding our volunteer outreach efforts and would be incredibly grateful if you’d be willing to help us recruit female engineering students within your department who'd be willing to participate in this amazing opportunity.

WHEN: Friday, Oct 18, 9:00am-Oct 19, 12:00pm (Fall SWE Welcome)

WHERE: Cap Poly Campus

WHY: The Cal Poly Society of Women Engineers works to promote diversity and support women in engineering, while also providing many academic and professional opportunities to all students.

HOW: Contact Michaela Sewell at masewell@calpoly.edu for information about the club or sign up to volunteer with this link: https://docs.google.com/forms/d/e/1FAIpQLSc67AO35cvGEvOLKBqFnIvQ7-7zN_v2fWfnEN8g-2z3DwdTPaA/viewform
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 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

WINTER SESSION:
DECEMBER 27TH-JANUARY 5TH

COURSES IN BAMBOO CONSTRUCTION AND ORGANIC FARMING IN COASTAL ECUADOR!

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
Job Opening for applicant with Scientific, Engineering or Programming background

Western Weather Group, Inc., is a rapidly growing scientific and meteorological company based in Chico, California. Founded in 2005, Western Weather Group provides products and services to a wide range of customers and industries that help them minimize their weather risks. Our clients include companies such as Squaw Valley | Alpine Meadows, Stanford University, E & J Gallo Winery Ranches, Constellation Brands, and several major California electric utilities among many others. Employee retention is unparalleled with all original employees with the company since inception in 2005. Visit our website for additional information about our customers and the services we provide: [www.westernweathergroup.com](http://www.westernweathergroup.com)

**JOB RESPONSIBILITIES:**
Job responsibilities will be geared towards project management in support of electric utilities and include:

- Interfacing with electric utility clients for sales, support, and training
- Assembling, testing, and deploying weather monitoring systems in the field
- Assisting with product research, development, and testing
- Solving problems by researching, evaluating, and implementing solutions
- Working with custom datalogger software and programs
- Working with Microsoft Azure Cloud Based Weather Data Platform
- Periodically traveling within the U.S. in support of clients

**EMPLOYMENT BENEFITS:**

- Competitive health, dental, vision, and life insurance coverage
- SIMPLE IRA retirement account matching funds
- Paid time off and ten paid company holidays per year
- Challenging and rewarding work environment
- Salary based upon experience and qualifications

**REQUIRED JOB QUALIFICATIONS:**

- B.S. from an accredited college in electronics, meteorology, engineering, programming or related field
- Self-motivated learner with excellent multi-tasking skills
- Proven ability to work as part of a team and as an individual with minimal supervision
- Exemplary written and verbal communication skills
- Ability to lift and carry items up to 50 pounds
- Valid U.S. driver’s license and clean driving record

Western Weather Group is seeking an enthusiastic and self-motivated employee with project management skills and a scientific background to help us as we continue to grow!

Please email or mail your resume and cover letter to:
Nathan Lohse, Chief Operating Officer, nathan@westernwx.com
Western Weather Group, 686 Rio Lindo Ave., Chico, CA 95926
Position: Agricultural Engineer

From concept to complete machine, the Research department at Andros strives to create innovative custom machinery offering customers improved efficiency through mechanization. Be a part of a team developing technologies to serve the future of the agricultural industry.

Job Description:

Perform as a member of a research and development focused team to design and build ag machinery. Complete design of mechanical systems, engineering analysis and design reviews. Create 3D models, shop drawings and bills of materials. Interact, coordinate and assist fellow engineers, fabrication personnel, vendors and clients to complete jobs in an efficient and timely manner. Assist in the manufacturing and in-field testing processes. Work in varied field environments to prove design integrity and determine necessary improvements.

Qualifications and Experience:

- Bachelor of Science degree in engineering (Agricultural, Mechanical, or related)
- Background in agriculture
- Knowledge and experience with industrial fabrication and manufacturing processes
- Ability to work in a production shop environment
- Work environments include office, shop and onsite at customer’s locations
- Knowledge of mechanical systems, hydraulics and electrical
- Knowledge and experience with drafting and 3D solid modeling (Solidworks)
- Effective written and oral communication, organization and time management skills
- Display ethics and professionalism at all times
- Work well in both team and independent environments
- Detail oriented individual with excellent critical thinking, problem solving and analytical skills
- Ability to efficiently prioritize and manage multiple projects simultaneously
- Willingness to travel and work overtime as necessary
- CA driver’s license required

Compensation and Benefits:

- Very competitive wages based on experience
- Complete benefit package including:
  - Group medical plan
  - Employer matched 401K
  - Paid vacation and holidays

How to Apply:
Send resume to: harrison@andros-engineering.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