The Agricultural Engineering Society is a staple of the BRAE Department. A place for students to come together and collaborate outside of the classroom and contribute to their education. Interested in learning more? Get to know a few of the AES Club Officers featured here over the next issues!

AES will be hosting their SECOND meeting Wednesday, November 1st, 2017 at 6:00PM in the shops!
Helen Barnes
Position: AES Club President
Year: Senior
Major: Agricultural Systems Management
Hometown: Hickman, CA

Why did you choose Cal Poly?
Cal Poly had been my dream since I was in middle school. I have had a lot of family attend school here and loved the San Luis Obispo area.

Why did you apply to the BioResource and Agricultural Engineering Department?
My dad was an Agricultural Engineering Major at Cal Poly, so that is how I knew about ASM. I was really interested in Agribusiness so ASM seemed like the perfect blend of business classes while still getting to use my math/technical skills.

Why did you become involved with AES?
AES winning Large Club of the Year for the College of Ag for so many years in a row was definitely a great selling point. Also, just seeing all of the ways that AES helps not only CAFES, or the University, but the community as well really intrigued me.

What has been your favorite class at Cal Poly?
ISLA 310- Culture of Thailand. I took this class in Thailand when I studied abroad!

What has been your favorite class in the BRAE department?
BRAE 340- Irrigation Water Management. This class really embraced Cal Poly’s “Learn by Doing”. It was challenging in all the right ways, and I had a personal interest in the material from working at the Irrigation Training and Research Center.

Where do you see yourself in five years?
In five years, I hope to have obtained a Master's degree in Agricultural Safety and Health and started a job as an Ag Safety Specialist or Safety Educator.

What is one thing other members (faculty and students) should know about you?
I love to travel. I want to see the whole world someday and I hope that I can have a career one day where I have the opportunity to work internationally.

Helen has been nominated for the 2017 Cal Poly Homecoming Court!
Go to https://goo.gl/1tTvd1 to vote for her today!
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAFES Student Council Meeting 5PM 8-122</td>
<td>Second General AES Meeting</td>
<td>AES BBQ 11AM-12PM @BRAE RAMP</td>
<td>PAAC Meeting 6:00PM 8A-3E</td>
<td>Homecoming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AES Officer Meeting 6:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Halloween</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAFES Student Council Meeting 5PM 8-122</td>
<td></td>
<td>AES BBQ 11AM-12PM @BRAE RAMP</td>
<td>No School</td>
<td><strong>Veterans Day</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AES Officer Meeting 6:00PM</td>
<td></td>
<td>PAAC Meeting 6:00PM 8A-3E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAFES Student Council Meeting 5PM 8-122</td>
<td></td>
<td>AES BBQ 11AM-12PM @BRAE RAMP</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AES Officer Meeting 6:00PM</td>
<td></td>
<td>PAAC Meeting 6:00PM 8A-3E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td><strong>No School</strong></td>
<td><strong>No School</strong></td>
<td><strong>No School</strong></td>
<td><strong>No School</strong> Thanksgiving</td>
<td><strong>No School</strong></td>
<td></td>
</tr>
</tbody>
</table>
PAAC is Here!
Come for fun people, free pizza, and robots
We’ve got an exciting quarter and we hope you can be a part of it!
Meetings are Thursdays 6-8 pm in room 8A-3E

8-3E (PC/Electronics Lab)
Taught by: PAAC Officers

Member of the Week
This could be you!
Do you have a friend in the club who did something cool but doesn't want to brag? Do you have something neat to share? Let us know and we’ll put you in the newsletter!

Project of the Week
New in Ag Automation

How Marine Algae Could Help Feed the World
“Our planet faces a growing food crisis. According to the United Nations, more than 800 million people are regularly undernourished. By 2050, an additional 2 to 3 billion new guests will join the planetary dinner table. In a newly published study, we explain how marine microalgae could be a sustainable solution for solving global macro-hunger.”
Read the article here!
BRAE 428 – Agricultural Robotics and Automation

Winter 2018 (4 units)
Lecture - Tue./Thurs. 7:40 – 9:00 am, Lab - Tues. 12:10 – 3:00 pm

• Studying sensors and sensor data analysis techniques

• Applying On-Off control, PID control, and fuzzy logic control to agricultural control systems

• Developing real-world autonomous agricultural vehicles/robots

This course is an application of mechatronics principles for agricultural control systems and robots. This hands-on, project-oriented course covers sensors, electronics, mechanics, control theories and computer programming topics for agricultural robotic systems. This course is ideal for undergraduate and graduate students who want to gain mechatronics knowledge and enhance their critical thinking skills.

FOR MORE INFORMATION CONTACT: Bo Liu / BLIU17@Cal Poly.edu / BLDG 8-106 / 805-756-2384
<table>
<thead>
<tr>
<th>Tutor</th>
<th>Classes</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedro Mogollon</td>
<td>PHYS: 131, 132, 133, ME: 211, 212, 234, 251, 302, 303, 328, 329, 341, EE: 201, 321, CE: 204</td>
<td>10:15 - 11:00</td>
<td>11:15 - 3:00</td>
<td>10:15 - 11:00</td>
<td>1:15 - 3:00</td>
</tr>
<tr>
<td>Collin Wong</td>
<td>MATH: 141, 142, 143, CPE/CSC: 101, 202, 203, 225, 315, 348, 349, 357, 436</td>
<td>11:15 - 2:00</td>
<td>4:40 - 7:00</td>
<td>11:15 - 2:00</td>
<td>4:40 - 7:00</td>
</tr>
<tr>
<td>Vahe Gyuloglyan</td>
<td>EE: 111, 112, 151, 212, 228, 241, 242, 255, 295, CPE: 101, 133, 202, 233, 315, MATH: 141, 142, 143, 241, 244, PHYS: 132, 133, 141, 211, ENGL: 149, BIO/BMED: 213, IME: 156</td>
<td>5:15 - 7:00</td>
<td>10:15 - 12:00</td>
<td>5:15 - 7:00</td>
<td>10:15 - 12:00, 1:15 - 3:00</td>
</tr>
<tr>
<td>Stavros Diamantopoulos</td>
<td>PHYS: 132, 133, 141, ME: 211, 212, AERO: 215, CE: 204, MATH: 141, 142, 143, 241, 244, EE: 201, 251</td>
<td>10:15 - 12:00</td>
<td>10:15 - 12:00</td>
<td>10:15 - 11:00</td>
<td></td>
</tr>
</tbody>
</table>
Hello lovely people! Here is what’s happening this week:

Events:

Monday- Sustainability Task Force
Monday - Crash Course, Project Team Meetings
Tuesday- IMPACT
Wednesday - General meeting
Thursday - IM Volleyball
Friday - Movie Night

Sustainability Task Force is a group seeking to enhance Cal Poly’s EWB Chapter through working on projects related to socio, economic, cross-generational and environmental sustainability. We want to ensure that our chapter is fulfilling its purpose of “equipping leaders to solve some of the world’s most pressing challenges”. The STF meets at 6pm every Monday in Building 10, room 225.

LAST WEEK OF CRASH COURSE! Even if you haven't been coming, please come for pizza and team choosing!

The schedule is:
7-7:45 Big Lecture Hall (33-286)
7:45-8:30 Individual Rooms
(Nathan & DJ and Cayley’s Groups: 53-215
Dan and Payton’s Groups: 53-206
Jess and Carolina’s Groups: 33-287)
8:30-9 Building 10 Courtyard

IMPACT meets every Tuesday 11:10-12:00pm in the library fishbowl 216R. IMPACT, Engineers Without Borders’ volunteering team, works with nonprofits across San Luis Obispo 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. In addition to future volunteering events, IMPACT is looking forward to building long term relationships in the community through a partner program between nonprofits and EWB project teams.

General meeting this Wednesday 6-7pm, building 10-225, where we will be hosting a coffee talk on Puerto Rico, international development, and disaster relief. If you have a moment, listen to the first half of this podcast on Puerto Rico: https://art19.com/shows/worldly/episodes/3bceee51-9f60-4027-8e1f-d7e4c514f632

Volleyball IMs Thursday Nights at 7:30pm-8:30pm
We still have ONE more game. Come play/ support our team crush it on the court.
NOTE: IM sports will now be counted as a part of the points system. Crash Course members can donate their points to the team of their choice. (If you are unsure about the point system, ask a project lead in your team meeting or crash course this week, they will lay it all out for you).

MOVIE NIGHT with STF Environmental!
Come hang out with us Friday, November 3 to watch Chasing Coral, a documentary about the disappearance of the world’s coral reefs. There will be snacks! We are meeting at 6:00pm in room 180-112 (Baker.) Hope to see you wonderful people there!

• This team project focuses on the field of Biomimicry – applying solutions found in nature to solve human challenges. Some common examples include:

  • Velcro from Geckos!
  • Swimsuits from Shark Skin!
  • Buildings from Termites!
  • Paints from Plants!

• **This year student team(s) will work on a biomimetic project that** creates a nature-inspired innovation (a product, service, or system) that combats climate change by either:

  – Helping communities adapt to or mitigate climate change impacts (i.e. those forecasted or already in motion), and/or
  – Reversing or slowing climate change itself (e.g. by removing excess greenhouse gasses from the atmosphere).

• This is an international student competition with $100,000 in prize money. Last year a team won Honorable Mention!
• Winter Quarter 2018 Senior Project or Elective Credit
• Contact Professor Norm Borin nborin@calpoly.edu
Kern County-AG BIOLOGIST/WGTS & MEAS. INSPECTOR Job Posting!

Description
AMENDED: 10/9/17
FILING DATE: Applications will be received until cancellation of this notice. CANCELLATION CAN OCCUR AT ANYTIME WITHOUT NOTICE. Names will be placed on one eligible list in order of final grades. Individuals who attain placement on the eligible list may not reapply until their name has expired from the list.


Conducts complex and detailed inspections and investigations and enforces provisions according to laws and regulations relating to the Department of Agriculture and Measurement Standards.

DISTINGUISHING CHARACTERISTICS:

Agricultural Biologist/Weights and Measures Inspector Trainee: This is the trainee level in the Agricultural Biologist/Weights and Measures Inspector flexible classification series. Incumbents receive direct supervision and training and assist in the performance of established essential functions.

Agricultural Biologist/Weights and Measures Inspector I: This is the entry level in the Agricultural Biologist/Weights and Measures Inspector flexible classification series. Incumbents work under supervision and perform or assist in the performance of established essential functions.

Agricultural Biologist/Weights and Measures Inspector II: This is the journey level in the Agricultural Biologist/Weights and Measures Inspector flexible classification series. Under general supervision, incumbents perform duties with increased responsibility, and may direct and train staff as assigned.

Agricultural Biologist/Weights and Measures Inspector III: This is the advanced journey level in the Agricultural Biologist/Weights and Measures Inspector flexible classification series. Under general supervision, incumbents perform in a lead capacity, directing and training staff as assigned. Responsibilities include planning, implementing, and coordinating one or more work elements within a program. This classification requires independent decision making and performs complex and difficult enforcement actions, investigations, inspections, projects, studies, surveys and undercover assignments.

Essential Functions
Performs inspections to determine compliance with the laws and regulations pertaining to agriculture and measurement standards.
Certifies or rejects agricultural commodities according to import/export requirements.
Interprets laws and regulations to assist industry in correcting deficiencies and gaining compliance.
Takes enforcement action by issuing notices of violation, off-sale orders, citations, and civil penalty actions.
Conducts incident and complaint driven investigations to determine if violations occurred; includes gathering evidence, collecting samples, performing interviews, and writing case reports.
Issues, conditions, or denies pesticide permits by evaluating proposed application site, surrounding environment, application method, and pesticide toxicity.
Provides information, annual crop reports, and educational presentations to the general public and regulated industry.