PRE-COLLEGIATE SYMPOSIUM

BRAE professors and students shared with high school juniors about our department and what jobs are available for BRAE graduates.
Meet Trelawney! She is a 4th year BRAE major from Grass Valley, CA. She was involved in engineering from a young age. She always loved visiting her grandfather who was an engineer, because he took the time to explain what projects he was currently working on. He would ask her to test them and have her give feedback about what she thought. Since he made such a large impact on her life, she always knew she wanted to be an engineer but didn’t know what type. It wasn’t until she was involved in 4-H and FFA that she fell in love with the agriculture industry. She saw the BRAE program as a perfect blend of her two interests and looking back, knows she made the right choice!

Trelawney has made sure to stay busy while she’s been at Cal Poly! She has worked at the dairy, feed mill, and crops unit. AES, Tractor Pull Club, Tractor Pull Team, and CAFES Student Council have taken up the rest of her spare time! She has been the Vice President for AES, President of ASABE, Chair/Co-Chair of Tractor Pull Committees, and is the current CAFES Student Council Secretary.

By senior year, everyone has a few stories of the department that stick out in their mind. Trelawney wanted to share this one: “My sophomore year during BRAE 236 lab it was on and off raining and we had to go out to an orchard and take measurements of the sprinkler system. This was the first (and last) year measurements were taken in the lemon orchard and the class had to walk out there and meet Dr. Styles. The whole class got lost and Dr. Styles had to come find us wandering around trying to figure out where we were supposed to be. During the lab it started raining and we (along with our notes) were soaking wet by the end of it. We kept getting poked by the thorns and we were covered in mud from trying to get the sprinklers from under the trees. It was not fun while it was happening but looking back on it now it makes me laugh every time and it made me realize what I was getting myself into with the department. When teachers say rain or shine, they mean it!”

It is hard to pick a favorite class, but Trelawney picked BRAE 129. She enjoyed that they were able to get their hands dirty in so many areas related to BRAE. “It was the first time I got to do a lot of that stuff and it made me even more excited to be in the BRAE department,” she said.

Trelawney has some great advice for the underclassmen! First, she suggests to have an internship over the summer, because there is a lot to be learned from them. Second, she shares that you should get involved and “sample the buffet of teachers” not only in BRAE, but across the campus. “There are so many clubs and opportunities available and I have never ‘sampled’ something and regretted it. Each new experience has made me a better person and given me great connections and friends,” she said.

Even though she’ll miss Cal Poly, she hopes to have her dream job working in water engineering. She looks forward to a position that allows her to travel, even internationally!
BRAE NEWS & EVENTS

Leukemia & Lymphoma Society
Patrick Larsen is raising money for the Leukemia & Lymphoma Society. To help, visit:
http://www.llswa.org/site/TR/Events/FirefighterStairclimb?px=1712997&pg=personal&fr_id=1500

P.A.A.C.
The P.A.A.C. Meeting this week is cancelled due to the World Ag Expo. They are looking to schedule
one next week.

Engineers Without Borders
Meetings
India: Bldg 22-211, Monday from 7-9pm*
Malawi: Bldg 8-121, Monday from 7-9pm*
Nicaragua: Bldg 10-223, Monday from 7-9pm*
Thailand: Bldg 10-126, Monday from 7-9pm*
Local Projects: Bldg 22-312, Monday from 7-9pm*
IMPACT: Library 216M, Tuesday from 6-8pm
Fundraising: Library 216M, Thursday from 5-6pm

Open Discussion w/ Cathy Leslie
On Tuesday, February 16th from 10-11am, there will be an open discussion for Q&A with EWB-USA’s
Executive Director, Cathy Leslie. If you would like to join, register here.

Sustainable Technologies in Action Course
CATIS-Mexico and IRRI, partners of EWB-UK, are offering a two-week training course in
sustainable technologies. If you are passionate about earth-friendly technologies and curious about
successes and failures in diverse contexts, this course is for you. Click here to learn more about the
program.

World Ag Expo

Don't forget that the World Ag Expo is coming up!

When: February 9th -11th

Where: International Agri Center - 4500 South Laspinas Street, Tulare

Why: This event is filled with thousands of companies and industry leaders showing off their
cutting edge technology. It is a great opportunity to see what new products are coming out and to
network with professionals and alumni.

There will be a number of seminars on irrigation with the speakers being from: Tule, iFarm, UC
Agriculture & Natural Resources, Mazzei Injector Company, Senninger Irrigation, Observant, Toro,
Meras Engineering, Irrrometer, Jain Irrigation, Spectrum Technology, Roscoe Moss Company
Safety Tip of the Week
Do Not Leave Machines Unattended

When working in the labs, always be aware of the machine you are using. Never walk away from a machine while it is running. A machine that is unattended can cause serious harm to either the machine or someone else. Even if you intend to come back and continue working, the machine should still be turned off. It is easy to become distracted and leave the machine running.

Be aware of the following:
• Always turn off the Lathe (not just disengage the clutch).
• Do not leave the end mill while in operation.
• Do not leave band saws unattended while running.
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**Monday Schedule**

- **9:** Club Officer Meeting 6pm 8-122
- **17:** Open House Meeting at 7 am in 10-206
- **24:** Open House Meeting at 7 am in 10-206

**Tuesday Schedule**

- **2:** Tractor Pull Meeting 7pm 8-122
- **10:** SWE Meeting 6pm in Bonderson 104
- **16:** Monday Schedule
- **23:** Club Officer Meeting 6pm 8-122
- **30:** Club Officer Meeting 6pm 8-122

**Wednesday Schedule**

- **3:** AES General Meeting Lab 1 - 6pm
- **10:** BRAE BBQ 11am
- **17:** BRAE BBQ 11am
- **24:** BRAE BBQ 11am

**Thursday Schedule**

- **4:** BRAE BBQ 11am
- **11:** World Ag Expo
- **18:** BRAE BBQ 11am
- **25:** BRAE BBQ 11am

**Friday Schedule**

- **5:** World Ag Expo
- **12:** World Ag Expo
- **19:** World Ag Expo

**Saturday Schedule**

- **6:** World Ag Expo
- **13:** World Ag Expo
- **20:** World Ag Expo
- **27:** World Ag Expo
THE NAWMC ANNOUNCES
science and engineering disciplines

SCHOLARSHIP

The NAWMC will award the successful candidate a stipend for the 2016-17 academic school year $1,500

Additionally, a travel reimbursement not to exceed $1,000 will be made to the scholarship winner for his/her attendance at a future meeting of the NAWMC during the same year. Lastly, the NAWMC shall appoint a professional contact for the student to further encourage and promote their academic success in the field during the academic year.

The North American Weather Modification Council (NAWMC) recognizes the need to introduce students in the science and engineering disciplines to the field of weather modification. The scholarship will expose students to the latest research and program operations, and provide significant networking opportunities via interaction with people in the field. Through the funding of an academic scholarship to be awarded by the NAWMC, the Council can play a small role in developing the weather modification field’s next generation.

CANDIDATE ELIGIBILITY
Applicants must meet the following criteria to be eligible for consideration:

1. Full time enrollment in the science or engineering disciplines at an accredited institution of higher learning for the upcoming academic school year.
2. Undergraduate student with Junior/Senior standing for upcoming academic school year; or graduate level student for same.
3. Cumulative GPA of 3.0 or better.
4. Applicant must be a permanent resident of the United States.

APPLICATION MATERIALS
Candidates must submit the following to the NAWMC Scholarship Committee by February 22, 2016:

1. NAWMC Scholarship application form. (download at nawmc.org)
2. Copy of an unofficial transcript from current accredited institution of higher learning.
3. A 500-600 word essay to include candidates’ academic and career objectives and demonstrated potential interest in the field of weather modification. A short summary of candidates’ knowledge in the field should also be included.

FOR FURTHER INFORMATION CONTACT MR. TOM RYAN,
CHAIR NAWMC SCHOLARSHIP COMMITTEE AT TRYAN@MWDH2O.COM

For more information about the NAWMC visit www.nawmc.org.
Test/Inspection Technician

DEL Ozone, a San Luis Obispo based manufacturer, is seeking a Test/Inspection Technician who will be responsible for performance and documentation of product testing, inspection of product and component parts of various levels of complexity & through various stages of production, and ongoing evaluation & improvement of documentation and processes. The successful applicant will have a good working knowledge of electromechanical assembly and M&TE. They must be able to work competently and safely, with minimal supervision, in a fast-paced production environment.

**Essential Duties and Responsibilities** include, but are not limited to the following:

- Inspects and tests components, fabricated parts, electromechanical subassemblies, and finished product for conformance to specifications.
- Documents inspection and test results, and can produce reports from this data for trend analysis.
- Provides constructive feedback to Production and Engineering on an ongoing basis to continuously improve quality, reliability, and consistent use of good manufacturing practices.
- Designs (and builds, as needed) test systems and protocols based on product specifications.
- Tests electrical components and finished devices for electrical functioning, using electrical test equipment, such as oscilloscope, multi-meter, voltmeter, and computerized test equipment.
- Manages the plant calibration program; maintains calibration records of test and measuring equipment and coordinates third party calibrations on schedule.

**Education/Experience:** - Industrial Technology Degree or 3 - 5 years experience in equivalent field.

**Computer Skills:** - To perform this job successfully, an individual should have knowledge of Microsoft Word, Microsoft Excel and manufacturing software.

**Physical Demands:** - While performing the duties of this job, the employee is regularly required to stand for extended periods. The employee must regularly lift and/or move up to 25 pounds, and occasionally lift and/or move up to 75 pounds.

Benefits include health and dental insurance, 401k, vacation, and paid holidays.