EEE Newsletter
September 28, 2018

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EEE Registration - Spring 2019

- Spring 2019 Schedule of Classes & Time Tickets go live in myPurdue on Monday, October 8.
- Students who will be registering for Spring 2019 should have received an info email from Tammi Thayer about EEE mentoring, and a BoilerConnect Registration invitation email. December 2018 graduation candidates were NOT included.
- You may access the newsletter for ‘EEE Registration - Spring 2019’ by taking this path - EEE -> Current Students -> Useful Resources -> EEE Student Newsletter

Printing in POTR 360

- In an email earlier this week Dr. Robinson informed you that the Engineering Computer Network was going to have all the computers default to the printer in POTR 360 so you wouldn’t have to map each computer to the printer. This was done on Thursday.
- Please let eee@purdue.edu know if you are having problems printing.

POTR Building - Hours of Operation

- POTR building hours of operation are 6:00am - 10:30pm, 7 days a week.
- If doors are locked during these posted times, contact the Purdue Police non-emergency number at 49-48221.

EEE Travel Assistance Request Opportunity *

- Looking for a funding opportunity to assist with costs associated with your Study Abroad, Global Experience, Service-Learning Project, Conference, etc.?
- Students seeking monetary assistance for travel costs associated with studying abroad, presenting research or other educational activities should use the attached form to validate their need for such support. Applicants should have an initial discussion concerning the intended program with Tammi Thayer.
- Applications are due 1pm on Monday, October 15 to Dr. Nina Robinson, EEE Administrative Director
- Application form is attached.

Job Corner with Ms. Whelton, PE

This section is prepared for the newsletter by Ms. Margaret Whelton, PE. She is the EEE Manager of Industrial Experience. The responsibilities of this position include working with industry to secure internships, co-ops, and full time job opportunities for students; developing real world senior design and research projects; and facilitating partnerships between industry and Environmental and Ecological Engineering. She has twelve years of experience as a practicing environmental engineer prior to becoming part of EEE. She is a registered professional engineer in Indiana, Virginia, and Alabama.

Please note that Ms. Whelton is currently on maternity leave.
An important requirement for any sort of application—whether a scholarship, graduate school, job opportunity, and even when you get your PE license—is recommendations. You want a reference that remembers you and gives you a good if not glowing reference. Someone who can vouch for your professional and personal characteristics in a positive light. Application reviewers, recruiters and HR personnel use references as a way to learn more about a candidate or to “fill in the gaps”. What is their work style, their ethics, record of success, and are they passionate about what they do? It is essential to have a list of people who can provide references that show who you are as a person and employee in a positive light.

So what do you need for references? First you need three to four individual relationships that you can use as references—you’ll need to initiate and maintain these relationships. These are people or mentors you regularly connect with on professional advice and can confirm your work ethic and problem solving capabilities. Makes sure you ask the right person.

Three things to consider are: 1. Do they have strong writing skills that will show on paper or in a phone call your capabilities? 2. Do you have a lot experience with this person that they can utilities to create a reference? The more examples a reference has to draw on, the more personal their recommendation will be. 3. Do they have enough time to write a reference? You don’t want someone who doesn’t have enough time to craft a good reference. This also means give them enough notice with their schedule to be able to create your recommendation!

It is always good to help your references. On a regular basis (these days less “regularly” than before), I make sure I check in with my reference bank to see how they are doing and to update them on my life progress. As you move through your career, you will want references from various stages of your career and this allows them to have current and consistent knowledge on you. This also keeps your network and networking skills current at the same time! When it comes time to ask for a reference, help them a bit. Give them an idea of what the company, scholarship application, etc. is looking for. Give them any background information you have in a concise manner—you don’t want to give them so much to look at that they don’t have time or want to take time to write you a recommendation. Remind them of your experiences with them and current experiences. Give them strong examples, especially those that relate to their experiences with you. In addition to keeping touch, always thank someone for any help they have provide you.

Per career coach Jenn DeWall “The biggest mistake people make is choosing reference that they have inconsistent relationship with them or choose people who don’t respect them. These are always references that will flop because they will not advocate for you”. No reference is better than a bad reference!

**Upcoming Career Fairs**

**College of Agriculture Fall 2018 Career Fair**
- Tuesday October 2nd
- 9:30am-3:30pm
- Cordova Recreational Sports Center

Look for those companies interested in “Natural Sciences and Environmental Studies” and also ABE.

More information: [https://purdue-csm.simplicity.com/events/a5b1f74f57ded9a04d71e6e71f4ca151/overview](https://purdue-csm.simplicity.com/events/a5b1f74f57ded9a04d71e6e71f4ca151/overview)

Checklist for the career fair: [https://ag.purdue.edu/oap/career/Documents/CAREER%20FAIR%20CHECK%20LIST.pdf](https://ag.purdue.edu/oap/career/Documents/CAREER%20FAIR%20CHECK%20LIST.pdf)

Through the link above, you can allow 10 companies to preview your resume prior to the career fair!

**CE Career Fair**
- There are over 45 companies that have environmental listed. The companies at this career fair are mainly consulting focused.
- Thursday Oct 11th
- 9:30 AM - 2:30 PM
- Purdue Memorial Union North and South Ballrooms

Career fair info: [https://engineering.purdue.edu/CESAC/careerfair/studentinfo](https://engineering.purdue.edu/CESAC/careerfair/studentinfo)

A pdf list of all companies attending (look for those that have “environmental” listed in the “area of emphasis”): [https://engineering.purdue.edu/CESAC/careerfair/2018%20Final%20Booklet%20REV0.pdf](https://engineering.purdue.edu/CESAC/careerfair/2018%20Final%20Booklet%20REV0.pdf)

**CCO: Career Fair Season Checklist and Tips & Tricks**

Check out the **Tips & Tricks section** of the CCO blog for useful information about every step of the job application and interview processes. Here are some of our favorite job/internship search related posts:

- What happens on my CCO after I click “apply” for a position?
- How to organize your job search
- Staying confident in a competitive job market
- The one question you might be answering totally wrong in interviews
- Surviving your first on-site interview
**EEE Maymester 2019 Study Abroad Program: Sustainability Across Sectors**

- Want to include a global experience in your academic program but not sure you can commit to an entire semester off campus? Consider joining Prof. Inez Hua as she once again leads a group of students in a short-course called **Sustainability Across Sectors, Sweden.**
- This course that can be counted as an **EEE Selective course: EEE 49500 - 3 credits.**
- Eligibility: Rising sophomores through seniors. Minimum of 3.0 GPA or as approved by Prof. Hua.

**Big Ten Grad School Expo**

- Specifically geared towards students interested in attending graduate school in the fields of Engineering, Technology, Science, Mathematics, and related fields.
- September 30th-October 1st
- Schedule of events and more information can be found at [https://www.purdue.edu/gradschool/gradexpo/documents/2017ExpoProgram-web.pdf](https://www.purdue.edu/gradschool/gradexpo/documents/2017ExpoProgram-web.pdf)
- Pre-registration has closed but you are still welcome to attend, but will need to register at the door on Sunday, September 30, or Monday, October 1. Please contact gradexpo@purdue.edu with any questions.
- FYI - The EEE Graduate Program will be there.
- University of Wisconsin-Madison’s MS in Applied Economics will also attend. Learn more at [Resource & Energy Demand Analysis (REDA)](https://engineering.purdue.edu/uSMART).

**EEE Sponsored Event - John Ostergren** *

- John Ostergren, Director of Environment, Health, and Safety at 3M will be speaking on **Sustainable Sustainability: Every Day Matters.**
- Tuesday, October 23rd, 10:30 am in Fowler Hall
- This event is cosponsored by EEE and part of Green Week!
- See attached flyer for more details

**Sustainable Consumption Research Project** *

- The Urban Sustainability Modeling & Analysis Research Team (uSMART) is hiring undergraduate researchers! We have some openings on the **sustainable consumption project** (Detailed information about the team and project can be found at: [https://engineering.purdue.edu/uSMART](https://engineering.purdue.edu/uSMART)). We study consumer’s sustainable shopping behavior by using the eye tracking glasses which could track consumer’s eye movement and let the researchers know what consumers look at in their shopping process.
- If you are a person with high responsibility; if you feel comfortable to interact with other people; if you are curious about consumer's shopping behavior; if you are interested in researching environmental sustainability topics, please join us!
- Students will go to a local supermarket (in Lafayette) to collect data on regular weekly bases. Students who feel comfortable to interact with others and have a car are preferred.
- **Requirements**
  - At least **8 hours** available time each week.
  - Stay on the project for at least **two semesters**.
- **Benefits** - You could register for research credits and gain research experience!
- To apply, please send your resume to the following address: **song335@purdue.edu**

**Community Service Project Grants**

- Office of Engagement is offering grants to student organizations working on community service projects. This program's goal is to expand the community involvement of Purdue students in partnership with communities, nonprofit agencies, schools and governmental bodies
- Application deadline is October 5th
- Apply here: [https://slg.engagement.purdue.edu/](https://slg.engagement.purdue.edu/)
**Engineering Resources Webpage for International Students**

- A College of Engineering webpage is available for international engineering students. Within this page you will find useful information on Academic Success, Career Planning, Visa regulations, and Video resources.
- Find at [https://engineering.purdue.edu/Engr/InfoFor/InternationalStudents](https://engineering.purdue.edu/Engr/InfoFor/InternationalStudents)
- You may also link to this from the EEE webpage. Follow path - [https://engineering.purdue.edu/EEE](https://engineering.purdue.edu/EEE) -> Current Students -> Useful Resources -> CoE International Students Page

**Undergraduate Research Seminar Series** *

- Series hosted by the Office of Undergraduate Research
- Each session held in Hicks G980D 4:30-5:30pm
- See attached flyer for specific dates and seminar topics

**Undergraduate Research Roundtable**

- Hosted by Office of Undergraduate Research (OUR)
- **Tuesday, October 30**th **9am-2pm in PMU Ballrooms**
- Research mentors, program directors, and staff across campus will host booths to discuss research opportunities undergraduates can join. This research “job fair” is a great way for interested students to locate potential research projects and programs.
- Register here: [https://purdue.ca1.qualtrics.com/jfe/form/SV_0ebK9lrMkDYywC1](https://purdue.ca1.qualtrics.com/jfe/form/SV_0ebK9lrMkDYywC1)
- Preparation workshop on October 29th 4:30-5:30 in Hicks G980D

**Dawn or Doom Research Poster Symposium** *

- **Monday, November 5**th **8-1:30 pm**
  - Judging of the posters will take place 10-11:30 am
- Must register by October 29th at 5pm
- Prizes for best posters include up to $500
- Register at: [https://purdue.ca1.qualtrics.com/jfe/form/SV_OGNVDs67OvCDe4d](https://purdue.ca1.qualtrics.com/jfe/form/SV_OGNVDs67OvCDe4d)
- See attached flyer for more info

**Cornell Engineering Masters Program Info Session** *

- **Monday, October 1**st **6-8pm at Nine Irish Brothers.**
- Free cocktail and hors d’oeuvres for alumni, current students, and interested potential students.
- Register here: [https://www.eventbrite.com/e/cornells-systems-engineering-free-information-cocktail-session-tickets-50695566805](https://www.eventbrite.com/e/cornells-systems-engineering-free-information-cocktail-session-tickets-50695566805)

**What are REUs?? (NSF Research Experiences for Undergraduates)**

- NSF Research Experiences for Undergraduates (or REUs) are competitive summer research programs in the United States for undergraduates studying science, engineering, or mathematics. Such programs usually focus on targeting women and underrepresented minorities. The programs are sponsored by the National Science Foundation, and are hosted in various universities. They are among the most prestigious summer programs that an undergraduate can participate in. Individual REUs tend to be specialized in a particular field of science. There are REUs in many scientific fields such as mathematics, physics, chemistry, geology, biology, psychology, and computer science.
- REU sites typically consist of ten undergraduates working in the research program of the host institution. As the program is funded by the NSF, undergraduates must be citizens or permanent residents of the US or its possessions to be eligible for funding. However, some REU sites accept “self-funder” international students. Applications are
typically due between February and March. This is excellent opportunity for undergraduates to get further research experience, and REUs are especially recommended for students considering graduate coursework later on. Compensation for hours worked is provided.

- A searchable engine and more info can be found at http://www.nsf.gov/crssprgm/reu/reu_search.jsp
- These opportunities are competitive so having prior research experience makes you more competitive.
- See your EEE Mentor for more insights on the advantages of REUs, or with help in narrowing your choices.

**Failing Forward Wellness Seminar** *

- Wellness Programs in the CoRec has a new series for students.
- The Failing Forward series helps teach students the importance of resilience and bouncing back from setbacks. Students can learn how to deal with failure in a healthy way, boost optimism in the midst of adversity, and gain the professional skill of handling conflict well.
- The series is free and begins Sept. 25 and runs through Oct. 4, occurring on Tuesdays and Thursdays from 5-6pm. Registration ends Sept. 24.
- Please see attached flyer and visit our website to learn more about this series and others.
Environmental and Ecological Engineering
Travel Assistance Request Form: Study Abroad, Global Experience, Service-Learning Project, Conference, etc.

Students seeking monetary assistance with tuition, fees, travel or related expenses associated with studying abroad, doing/presenting research or other educational activities including travel should use this form to validate their need for such support. Applicants should have an initial discussion concerning the intended program with the EEE Associate Director of Advising. Applications are due to the EEE Administrative Director by relevant deadline.

Application Deadlines:
October 15 for support of winter or spring term experiences
March 15 for support of summer or fall term experiences

Basic information:
Name, PUID _____________________________________________________________________________
Semester/Dates of travel ____________________________________________________________________
Location/Program/Conference Name __________________________________________________________
Number of credits to complete (if applicable) ___________________________________________________
Specific course equivalencies (list) ____________________________________________________________
Name all faculty sponsors (if applicable) _______________________________________________________

Personal Statement: On a separate sheet in 500 words or less, describe the planned experience and how it will help you to grow as an individual and future professional, as well as any benefits to clients or community groups. Include relevant details on how funding could eliminate financial obstacles to your participation.
If the experience is not a course-based program (study abroad), answer each of the following in your statement and have the lead/supporting faculty member or instructor indicate approval with a signature.
1. Describe the project or area to be studied. What are the main questions of study?
2. Describe your learning objectives and goals? What do you hope to accomplish through the experience?
3. Describe how you will show you have met your learning objectives — what products, reports, or other deliverables will you produce to show that you have met the objectives?
4. Describe how your project relates to EEE, to material covered in other EEE courses, and/or to your professional goals.
5. If credit for a course will be given, state how you intend to use this credit toward EEE degree requirements.

Estimated Budget: Funding Already Received:
| Travel              | $___________ | Travel | $___________ |
| Food & Incidentals  | $___________ | Food & Incidentals | $___________ |
| Housing             | $___________ | Housing | $___________ |
| Insurance           | $___________ | Insurance | $___________ |
| Tuition/Fees        | $___________ | Tuition/Fees | $___________ |

List other funding sources being pursued: _________________________________________________

Have you received previous funding from EEE:
□ No
□ Yes For what? Amount? ________________________________________________________________

If EEE agrees to provide support, you will be required to provide a “deliverable” to EEE. Indicate below how you wish to meet this requirement.
□ Presentation to EEE 29000 Intro to EEE Seminar
□ Poster for display
□ Presentation to EEE affiliated student organization
□ Report
□ EEE volunteer hours upon return to campus (~10hrs)
□ Other __________
□ Write student spotlight to be featured on EEE webpage
JOHN OSTERGREN
DIRECTOR OF ENVIRONMENT, HEALTH AND SAFETY - 3M

SUSTAINABLE SUSTAINABILITY: EVERY DAY MATTERS
LEVERAGING DECADES OF PERFORMANCE TO ADDRESS TOMORROW’S CHALLENGES

3M uses science every day to improve lives and help solve society’s toughest challenges – from clean air and clean water, to advanced health care and food safety. We recognize the unique and inspiring opportunity we have: to grow our enterprise while making the world stronger, safer, and healthier.

Our commitment to sustainability is rooted in and nurtured by our drive to continually improve our own operations, and has since before the term was even used. Since its visionary launch in 1975, Pollution Prevention Pays (3P) has empowered 3Mers to find creative ways to reduce environmental impacts and increase manufacturing efficiency. This initiative continues today, with 15,000 projects that have prevented two million tons of air, water, and waste pollution. 3P encourages sales professionals, office staff, executives, operators, researchers and engineers alike to find and fix sustainability challenges within 3M, and that collective mindset influences our drive to address global sustainability challenges with the same innovative, science-based approach.

Building on decades of setting and meeting manufacturing environmental targets by engaged 3Mers creating new sustainability solutions, 3M’s Sustainability Goals aim to amplify our impact by applying our sustainability culture and know-how as much outside the company as within.

BIO

John leads 3M’s Environment, Health, and Safety (EHS) organization, responsible for the company’s global EHS programs and performance – ensuring safe & healthy workplaces, environmental performance, operational sustainability, and compliance. He earned his JD and Ph.D. (geochemistry) from Stanford University. Prior to his current role, John served as 3M’s General Counsel for Supply Chain and EHS, and previously as General Counsel for operating units in 3M’s Industrial, Electronics, and Safety & Graphics business groups. Before 3M, Mr. Ostergren was an attorney at Dorsey & Whitney in Minneapolis, Minnesota, where his practice focused on environmental and technology litigation, and regulatory matters. He served as Editor-in-Chief for the Stanford Environmental Law Journal, and his doctorate research focused on molecular-scale surface chemistry and the fate and transport of environmental contaminants.
What we do?
We study consumer’s sustainable shopping behavior in a local supermarket by using the eye tracking glasses.

Who we are looking for?
• Students will go to a local supermarket (in Lafayette) to collect data on regular weekly bases.
• Students who feel comfortable to interact with others and have a car are preferred.
• This position is unpaid, students will earn research hours and experience.

Requirements
• About 8 hours available time each week.
• Stay on the project for at least two semesters.

Contact: Li Song, song335@purdue.edu (please attach your resume when applying)
UNDERGRADUATE RESEARCH SEMINAR SERIES

HIKS G980D
4:30-5:30pm

WHERE TO START TO BE A RESEARCHER—Mentors
Interested in research but unsure how to start? Learn from research mentors on what they are seeking.

WHERE TO START TO BE A RESEARCHER—Libraries
Interested in research but unsure how to start? Learn how to make Purdue Libraries' resources work for you in your search.

CREATE/DESIGN A POSTER
Novice and expert creators invited to learn poster best practices. Fall Expo participants encouraged to attend.

PREPARING FOR RESEARCH ROUNDTABLE
Learn how to network during the Roundtable. All can attend to learn about networking.

RESEARCH ROUNDTABLE | PMU BALLROOMS | 9-2pm
Research mentors and programs will be available to talk about their opportunities to undergraduates who are seeking research experiences. Co-Sponsor: PSPE

POSTER WORK DAY
Get help and feedback with your poster and presenting it. Project your poster on the screen to see what it will look like.

UNDERGRADUATE RESEARCH FALL EXPO
Learn about research projects Purdue students have completed. The Expo features presentations in the morning (STEW) and a poster symposium in the afternoon (PMU Ballrooms). Look out for the day's event schedule!

MARKETING YOURSELF
Learn how to market yourself to potential research mentors and to showcase the research you have accomplished so far. Presented by: Center for Career Opportunities

SPONSORED BY:
Purdue University Libraries
purdue.edu/undergrad-research
RESEARCH SYMPOSIUM and POSTER COMPETITION
All undergraduate and graduate students welcome

PMU NORTH
MONDAY, NOV. 5

8 - 10:00 a.m.
POSTER CHECK-IN

10:00 a.m. - 11:30 p.m.
JUDGING

1:00 - 1:15 p.m.
PRIZES AWARDED


Register for Dawn or Doom at purdue.edu/dawnordoom
We invite students of all levels and backgrounds to present their work (research or projects) at the PGSG/DawnorDoom’18 Poster Symposium on Monday, November 5, 2018. Posters do NOT have to be directly related to the symposium themes, but students should be able to communicate their research succinctly.

Abstracts will be accepted through 5PM October 29, 2018.

**Guidelines**

- Posters must discuss original research or projects with contributions of a student, post-doctoral researcher, or visiting scholar at Purdue University.

- Posters must be no larger than 3 feet 11 inches tall (vertical) and 5 feet 10 inches wide (horizontal). Content for posters may follow any standard format appropriate for the field of research.

- Posters will be mounted to dual-sided, free-standing displays using push pins which will be provided. Each registrant is limited to a single face of the display board.

- Handouts or other supplemental information are welcome.

**Registration**
To complete registration you must complete a form with descriptive details, providing a title and abstract of your presentation. Students will be contacted if further information is needed.

**Poster Session Registration is available directly through the link:**

https://purdue.ca1.qualtrics.com/jfe/form/SV_0GNVDs67OvCDe4d

or on the Dawn or Doom event page:

https://www.purdue.edu/dawnordoom

**Poster Registration Deadline: 5PM October 29, 2018**

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**Schedule**

Approximate schedule for the morning/afternoon.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 10:00 am</td>
<td>Check-in for students and judges</td>
</tr>
<tr>
<td>10:00 – 11:30 pm</td>
<td>Judging</td>
</tr>
<tr>
<td>11:30 – 1:00 pm</td>
<td>Tabulation of scores and poster viewing</td>
</tr>
<tr>
<td>1:00 – 1:15 pm</td>
<td>Awards ceremony</td>
</tr>
<tr>
<td>1:15 – 1:30 pm</td>
<td>Event conclusion; poster clean-up</td>
</tr>
</tbody>
</table>

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**Judging**

Faculty, visiting professionals, and staff will serve as judges. Please have at least one author of the poster present during the judging period (10AM – 11:30PM) to answer any questions the judges might have. If you must be away from your poster (class), leave a postcard at eye level on the left side of your board stating when you will return, but please note that the absence of an individual to address questions may negative impact the judging procedure.

Posters will be judged on clarity, completeness, visual design, presentation, and application of research. Graduate and undergraduate student posters will be judged separately.

Attendees will also be encouraged to vote for their favorite poster when available during the Poster Viewing. These votes will select a People’s Choice Award.

**Awards**
Awards will be given to the top three graduate and undergraduate students. First, second, and third place winners are excluded from the People's Choice Award.

**First place:** $500 Amazon gift card  
**Second place:** $250 Amazon gift card  
**Third place:** $150 Amazon gift card  
**People’s Choice:** $100 Amazon Gift card

**Information Release**

By submitting a poster/presentation, the applicant authorizes the PGSG and Dawn or Doom to share all information related to the poster/presentation (or subsequent award), including a photo, on the internet, in press releases, and in relevant program literature.

**Questions?**

Information about the conference can be found at [https://www.purdue.edu/dawnordoom](https://www.purdue.edu/dawnordoom).

Questions regarding the poster session can be sent to Taylor Bailey at psgs.presidnt@gmail.com.
Join Us

Learn more about the on-campus, online Master’s degree in Systems Engineering

Systems Engineering invites you to attend their FREE cocktail & hors d’oeuvres session held for Alumni, Current Students, and Interested Potential Students

Monday, October 1st
6:00pm-8:00pm

Nine Irish Brothers
119 Howard Avenue
West Lafayette, IN 47906

Click here to
RSVP by 10/1/2018

Visit: www.systemseng.cornell.edu for more information
Prove you have what it takes to build grit and resilience. Conquer the above challenges and learn how to navigate failures and setbacks.

SEPT. 25: Mind Games | SEPT. 27: Thought Patterns
OCT. 2: Mind Over Matter | Oct. 4: Friend or Foe
5-6pm in the Corec

to register or for more info, email evans240@purdue.edu