
Winter 2011 ASEE Students Newsletter



A Message from the SCC Chair

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Dear Student Constituent Committee Members:

I hope that everyone had a great holiday season. Winter/Spring 2011 semester is now upon us and the ASEE Student Constituent Committee (SCC) has been very busy this fall. We officially submitted our application for division status with ASEE and have been hard at work getting ready for the 2011 conference in Vancouver. Remember that **the paper submission deadline for the 2011 ASEE Conference in Vancouver is Wednesday, January 19**. Please contact our program chair, Brian Schertz [schertz2@illinois.edu], if you have any questions about the 2011 conference program.

As I mentioned last time, all are welcome to submit contributions for newsletters to Geoffrey Herman [glherman@illinois.edu]. If you have not already visited our webpage, please check it out at <http://students.asee.org>. We have been working very closely with two organizations this year, the Student Platform for Engineering Education Development (SPEED, <http://www.worldspeed.org/>) and the Engineering Education Ph. D. consortium. Thanks to Lauren Thomas for her work with the consortium.

Thanks to those of you who completed our member surveys this fall. By providing such information, we can provide SCC programs and services at conferences and expos. If you are attending conferences and would like to connect with other students, please contact Alexandra Coso [acosos@gatech.edu] for details.

I also would like all SCC members to encourage their friends who are students or faculty to join the SCC (it is free). You can see if your campus has a local student chapter on our site as well. If you are interested in starting or revitalizing a student chapter, please contact Adam Carberry [adam.carberry@asu.edu].

I hope everyone has a great semester and that I will see many of you in Vancouver!

Updates from the Officers



Adam Carberry, Zone Liaison Chair
Postdoctoral Research Associate
Arizona State University, Polytechnic Campus

My goal this year as the SCC Zone Liaison has been to find ways to increase student participation in ASEE. One major effort undertaken has been the creation of a Zone Liaison Sub-Committee. The committee consists of 5 members - Noah Salzman (Purdue University), David Richter (Virginia Tech), Austin Talley (UT-Austin), and Venkata Chivukula (RPI), and myself - representing the 4 ASEE zones. The members of the committee have been working with the various zone representatives to encourage adding student events to ASEE conferences.

The committee's purpose is to assist in raising the awareness of ASEE Student Chapters. Over the last year, I have been working hard to encourage institutions to start new chapters. Since 2009, 6 chapters have been established, 2 have been revived, and 7 additional institutions have expressed interest in creating new chapters. The creation of a Start-Up Guidebook (http://students.asee.org/?page_id=102) in 2009 and a growing population of chapters has been a great accomplishment for the SCC.

I have also been heavily involved with the work being put forth to create an Engineering Education PhD Consortium. This effort has led to the creation of a PhD Engineering Education Resource/Wiki (<http://engineeringeducationlist.pbworks.com>) for current and interested students. It is my hope that this wiki monitored by myself and Ken Yasuhara at the University of Washington, CELT, is a starting point for an eventual consortium. I believe that this effort is another way to help the SCC grow student participation in ASEE.



Ana Pereira, Treasurer/Secretary
Graduate Student
University of California, Berkeley

As the current treasurer/secretary of the SCC I would like to take the opportunity to provide you with a quick update of our financial status. The SCC has an Operating account which is used for minor expenses. Its deposits come from annual disbursements from ASEE Head Quarters, which typically are about \$1 per member. Currently the balance is \$175.00. If the SCC does not use this money by October 1, then we lose it (it does not "roll over" to the next year) and ASEE HQ provides us with the next year's disbursements. The SCC also has a BASS account. The BASS account is where the SCC deposits corporate donations and such, and it is what the SCC uses to

pay for things such as the annual SCC dinner. It is the SCC's money, and it never goes away unless it is spent. The BASS account balance is \$191.13.



Alexandra Coso, Membership Chair
PhD Student, School of Aerospace Engineering
Georgia Institute of Technology

In my second year as the SCC Membership Chair, my focus has been not only increasing student participation in the SCC and ASEE, but also increasing the opportunities for interaction between students within the engineering education community. This fall, the SCC organized its first Birds of a Feather: Student Networking Event at the 40th Annual Frontiers in Education (FIE) Conference in Washington D.C. with the help of General Chair Larry Richards. This year's FIE Conference was also a great opportunity to see the work of student researchers through workshops ran by SCC members as well as numerous paper presentations.

Over the next two months, look out for abstract and proposal deadlines for the 2011 FIE Conference in Rapid City, South Dakota (Due: 1/31), the 2011 Harvey Mudd Design Workshop VIII (Due: 1/31), and the 2011 Research in Engineering Education Symposium in Madrid Spain (Due: 2/28). These are great opportunities for SCC members to engage in the engineering education community outside of the ASEE Annual Conference and Exposition. Similar to the activities at FIE 2010, the SCC hopes to be able to continue to connect student participants at these and other events in the coming year.

Finally, I have also been engaged with SCC members as well as several current and former SCC officers in the development of the Engineering Education Ph.D. Consortium. At this year's ASEE Annual Conference and Exposition, the SCC will host the second Ph.D. Consortium Workshop. So please consider arriving on Sunday to participate in this workshop and look out for more information on the workshop and the consortium itself in the coming months.



Geoffrey Herman, Information Chair
PhD Candidate, Electrical and Computer Engineering Department
University of Illinois at Urbana-Champaign

As the information chair, I am responsible for updating the website, managing the listserv, and producing our quarterly newsletter. My job is to keep an eye out for events and opportunities that are of interest to the SCC membership. For the Spring newsletter, I hope to produce a "New Faculty Spotlight." If you are on the academic job market this semester, we would love to congratulate you on your new appointment as faculty and hopefully connect you with grad students who are interested in engineering education at your new school. Send me an e-mail (glherman@illinois.edu) if you have proof that there is life after grad school!

I have also been working to create the doctoral consortium alongside other SCC officers: Dan, Adam, and Alex. The consortium has almost found a direction and name, so be on the lookout for an e-mail that will help us finalize our plans for the consortium.

Upcoming Events



School of Engineering Education at Purdue University hosts spring open house March 9-10 2011

The School of Engineering Education is happy to announce its spring open house for prospective PhD students beginning at 5 pm March 9 until 5 pm March 10 at Purdue University, West Lafayette IN. Participants will have the opportunity to see current graduate students' research projects at an evening poster symposium, learn about the specifics of the PhD program including how to approach the application process, talk with many faculty, graduate students, and post-docs, and attend the school's weekly research seminar. Information, including registration details, travel, and potential travel grants, will be online at <<http://www.purdue.edu/ENE/visit>>. Additional information about our program is at <<http://www.purdue.edu/ENE>>. Please email us at enegrad@purdue.edu with questions. We look forward to meeting you!

Chapter News



Stanford University Inaugural Engineering Education Colloquium to be held March 31st

Chelsey Simmons (chelseys@stanford.edu)
VP for External Relations and Conference Chair, Stanford ASEE
PhD Candidate in Mechanical Engineering

The Stanford Student Chapter is excited to announce the first ever Engineering Education Colloquium at Stanford University. Our Engineering Education event on March 31st, 2011 comes from a proposal by our ASEE student chapter to bring together faculty, future faculty, researchers, and students to consider research and practice in engineering education. It has been funded by the school's Vice Provost for Graduate Education office. We are very excited about the Colloquium's potential to connect two disparate communities in the School of Engineering and School of Education, because of its potential to have a powerful impact on engineering education practice and research in both schools.

We are planning a formal morning program with a keynote presentation from Rich Felder of NC State, followed by a panel discussion led by local campus experts in engineering education and higher education. We will also have a poster session for students to showcase their engineering education and outreach efforts, followed by a

graduate student-only lunch.

If you would like to register for the event, please visit our website: asee.stanford.edu and click on "Events".

Job Postings

Research Associate STEM Education Center University of Minnesota

The STEM Education Center seeks an innovative individual with strong research and educator experience including a Ph.D. in a STEM education area or closely related field. Anticipated start date is 7/1/2011. The STEM Education Center, www.cehd.umn.edu/stem/, has the primary goal to have a significant impact on STEM education through concerted interdisciplinary research efforts in learning and cognition, STEM integration, instructor development, in addition to evaluation and assessment.

For more information, including job responsibilities and necessary qualifications, visit: https://employment.umn.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=457786

For additional information please contact:

Dr. Tamara Moore and Dr. Gillian Roehrig, Directors
STEM Education Center
University of Minnesota
1954 Buford Avenue, 320 VoTech
Saint Paul, MN 55108

stemeducation@umn.edu

Washington State University IGERT PhD Fellowships

Nitrogen Systems: Policy-oriented Integrated Research and Education (NSPIRE)

Interdisciplinary research focused on nitrogen cycle processes in the environment integrated with experiential learning of public policy. <http://igert.nspire.wsu.edu>

Up to 5 PhD research assistantships will be available to join a collaborative team working on understanding environmental aspects of the nitrogen cycle and putting that information into context for policy development. With funding from the National Science Foundation's Integrative Graduate Education and Research Traineeship program (IGERT), the individual fellows will pursue disciplinary research important for the overall theme, and work together to identify and address interdisciplinary issues critical for development of effective public policy related to environmental nitrogen (including educational and learning issues).

Potential Research Topics (regional modeling, measurements and analyses)

- *Hydrological N transport and fate,*
- *Crop N use and soil N cycling,*
- *N dynamics in terrestrial and aquatic ecosystems,*
- *Atmospheric N transport and fate,*
- *Biosphere/atmosphere interactions,*
- *Subsurface N fate and transport,*
- *Animal systems and nitrogen dynamics,*
- *Climate and land use change impacts.*
- *Interdisciplinary learning and conceptual change at the science/policy interface*

Benefits of the Program

- Full graduate support including two years of NSPIRE support with \$30,000/year stipend
- Integrated graduate curriculum
- Paid policy internship for 3 months with a US or International organization

Applicants are encouraged to apply to one of the following colleges within Washington State University: College of Agricultural, Human and Natural Resources, the College of Engineering and Architecture, or the College of Sciences.

Eligibility

Applicants must be a U.S. Citizen or permanent resident. Successful applicants must be entering or within their first year of a PhD program at Washington State University and join the program in the fall of 2011. Deadline for receipt of applications is mid January 2011. EEO/AA/ADA

For more information, visit the web page: <http://igert.nspire.wsu.edu>