Panelists

• **Tabitha Voytek**
  - FY13 SWE Graduate Member Coordinator
  - Carnegie Mellon University

• **Kayla Shaw**
  - University of Notre Dame
  - Graduate Professional Development & Career Guidance Chair at Notre Dame

• **Gwen Effgen**
  - Columbia University
  - President of Columbia GradSWE

• **Katharine Brumbaugh**
  - University of Texas at Austin
  - UT Austin SWE Grad Committee Co-Chair

• **Bethany Juhnke**
  - Iowa State University
  - Director of ISU GradSWE

• **Sofie Leon**
  - University of Illinois
  - Director of Illinois GradSWE
Agenda

• SWE Graduate Membership Overview
• Snapshots of Graduate SWE Groups
  ▫ Carnegie Mellon University
  ▫ University of Notre Dame
  ▫ Columbia University
  ▫ University of Texas at Austin
  ▫ Iowa State University
  ▫ University of Illinois
• Questions for the Panel
• Closing Comments
Graduate Membership Overview
What is Your Current Academic Status?

- Undergraduate Student
- Current Graduate Student
  - Full-Time
  - Part-Time
- Past Graduate Student
  - Professional
  - Academia
- Prospective Graduate Student (non-student currently)
- Other
What is your Current SWE Membership Status?

- Paid Member
  - Collegiate
  - Professional
- Non-Member
Membership Levels

- [www.swe.org](http://www.swe.org) – “Join SWE Now!”
- Collegiate Membership
  - $20 annually
  - College to Career (C2C) Program
    - $50 covers remaining years of collegiate membership and first year of professional membership
- Joint Memberships
  - Available with AISES, NSBE, SHPE
- Changing your affiliated academic institution
  - Need to email [hq@swe.org](mailto:hq@swe.org) with membership number and new school!
Graduate Leadership in SWE

**Current Graduate Leaders**

- Graduate Member Coordinator
  - Tabitha Voytek
  - grad-coordinator@swe.org

- Graduate Member Coordinator-Elect
  - Shivani Gupta
  - grad-coordinator-elect@swe.org

- Graduate Programming Coordinator
  - Katherine Alfredo
  - Grad-programs-coordinator@swe.org

- Graduate Programming Coordinator-Elect
  - Marcella Vaicik
  - Grad-programs-coordinator-elect@swe.org

**Other SWE Leaders**

- Graduate Student Task Force Chair
  - Prinda Wanakule
  - prinda.wanakule@swe.org

- Women in Academia Committee Chair
  - Mary Verstrade
  - maryc@uakron.edu

- Director of Education
  - Kelly Schable
  - kelly.schable@gmail.com

- Collegiate Director
  - Kaitlyn Bunker
  - collegiate-director@swe.org

SWE Graduate Website: swegrad.wordpress.com
Grad Greets at Carnegie Mellon University

Tabitha Voytek
(grad-coordinator@swe.org)
The Basics

• Mission and Goals
  ▫ To connect graduate women from different engineering departments.
  ▫ Provide professional development, opportunities for technical growth and fun activities for meeting friends.
  ▫ Bridge the gap between undergraduates and graduate students in order to provide mentoring and advice about graduate programs and careers.
  ▫ Open to any graduate student who is interested in meeting new people and participating in fun activities.
Leadership Structure

• Grad Greets Co-Chairs (2)
  ▫ Sit on the Executive Board of Undergraduate SWE Section

• Grad Greets Committee
  ▫ Co-chairs steer and lead the committee
  ▫ Committee members plan events (≈10-15 members)
    • Planning meeting at the beginning of each semester.
  ▫ 25-100 graduate students attend events
Programs and Events

• Event Breakdown
  ▫ Categories: Professional, Technical and Social
  ▫ One of each Category per month

• Sample Events:
  ▫ Professional:
    • Breakfast with Faculty
    • Graduate Career Paths Panel Discussion
  ▫ Technical:
    • Tours
      • Whiskey Distillery
      • AllClad Factory
      • Theater Backstage
  ▫ Social:
    • Desert Night
    • Glass-Blowing Workshop
    • Valentine Card Making

• Mentoring Undergraduates
  ▫ Yearly applying to graduate school panel
  ▫ Participate in Undergraduate Section Mentoring Program
    • Pairs students up
      • Freshmen – Upperclassmen
      • Upperclassmen – Grad Students
      • New Grad Students – Senior Grad Student
      • Students – SWE Professionals

• Outreach
  ▫ Work with Undergraduate Section Activities Including:
    • High School Day
    • Middle School/Girl Scout Day
Funding & Partnerships

• Supported through the Undergraduate SWE section
  ▫ Have a set budget from the Section for the year
  ▫ Partially-Subsidized Events
  ▫ Discounts for Paid Members of SWE
  ▫ Contribute to Corporate Sponsorship Packet the Section sends out

• Partner with Graduate Women Program at CMU
  ▫ Joint Events (particularly professional development events)
Graduate Program at the University of Notre Dame

Kayla Shaw
(kreibel@nd.edu)
Overview

• Originally started by graduate students attending the undergraduate student meetings
• Started having separate meetings for graduate student in Fall 2009
• Goals
  ▫ Meet graduate engineering students in different disciplines
  ▫ Provide opportunities for professional development and service
Leadership Structure

- **Graduate Student Representative**
  - Acts as a liaison between the graduate and undergraduate students

- **Committee Chairs**
  - Graduate Professional Development & Career Guidance
  - Graduate Social
  - Graduate Service
  - Responsibility is to plan one event each semester
• Meet monthly (~5-15) and have weekly lunches (~3-10)
• Plan a variety of activities over the semester
  ▫ Social, Professional Development, Outreach
• Social
  ▫ Arts & Crafts Meetings – Picture Frames, Earrings
  ▫ Christmas Potluck & White Elephant Gift Exchange
  ▫ Culinary Class
• Professional Development
  ▫ Professor Panel
  ▫ Speakers – Personal Presence, Transition form Grad School to Government Job, Engineering Library
• Outreach
  ▫ Presentation to undergraduate students about grad school
  ▫ Make cards for incoming graduate students
  ▫ Baby Blankets for local women’s organization
Funding & Partnerships

- Funded by the Undergraduate SWE section
  - Have food at meetings
  - Help with fundraisers
- Graduate school has sponsored students to go to the SWE National Conference and recruit undergrad students to Notre Dame
- Starting to partner with new AWIS chapter
  - Co-hosting speaker in October
GradSWE at Columbia University

Gwen Effgen
President
Society of Women Engineers Graduate Student Group
Columbia University

Email: GradSWE@gmail.com
Website: gradswe.tumblr.com
Twitter: @GradSWE
Facebook: ‘Like’ GradSWE
SWE: Leadership Structure

Columbia Collegiate Chapter for SWE

Executive Board

Affiliated Board
SWE: Leadership Structure

Columbia Collegiate Chapter for SWE

Executive Board

Affiliated Board

GradSWE
CU: Leadership Structure

Activities Board at Columbia Undergraduate Governing Board

SEAS Graduate Student Affairs Engineering Graduate Student Council

Undergrad SWE

GradSWE
Leadership Structure

Gwen Effgen
President

An Nguyen
Vice President

Danielle Bogdanowicz
Secretary

Zen Liu
Treasurer

Kacey Ronaldson
Networking Chair

Kristen Lee
Outreach Chair

Genevieve Brown
Digital & Social Media Chair

Paulina Concha
Membership Chair

Manali Singh
Corporate Chair
Mission

• Provide women in graduate engineering and applied sciences programming specific to their unique needs and interests.
  ▫ Advanced and specific recruitment
  ▫ Networking for mentorship & collaboration
  ▫ Workshop events for careers in industry or academia

• We hope to cater to the busy, dynamic lifestyle of graduate students.
  ▫ Concise programming during or shortly after the workday
  ▫ Forum to communicate, diversify, connect, and get the support that members need on their way to getting an advanced degree.
Regular Programming & Resources

- Orientation Activities Fair
- Ladies’ Luncheon ($L^2$) Series (GSA)
- Women, Wine, & netWorking ($W^3$) (GSA)
- Website Resources & Blog
- Affinity Reception (Alumni Affairs)
- Editors for Engineers
- Graduate student panel & Mentorship (UG-SWE)
Sample Events

• Academics
  ▫ Post doc Panel
  ▫ Presentation on Presentations

• Industry
  ▫ Career Fair Resume Workshop
  ▫ Leveraging LinkedIn & Social Media
  ▫ Site visits & Recruiter info sessions

• Orientation Panel for Women in Engineering

• Midterm study breaks

• Winter Social with WICS & WISC
Graduate SWE Committee at UT Austin

Katharine Brumbaugh
(katharine.m.brumbaugh@gmail.com)
The Basics

Mission and Goals

• Foster a support network for graduate women in engineering and computer science
• Provide personal, professional, and leadership development opportunities for graduate women in engineering and computer science
• Serve as mentors to undergraduate SWE members, especially in education about graduate school, fellowships, and research experiences
• Promote graduate involvement in SWE at the Society level by staying current with the Graduate Focus Interest Group and the Women in Academia Committee
• Maintain a symbiotic relationship with the WEP Faculty Committee at UT.
Leadership Structure

• Grad SWE Co-Chairs (2)
  ▫ Sit on the Executive Board of Undergraduate SWE Section (reports to VP of Executive Affairs)
  ▫ Sit on Cockrell School Women in Engineering (WEP) Committee
  ▫ Participate in WEP Leadership Collaborative

• Grad SWE Committee
  ▫ Co-chairs steer and lead the committee
  ▫ Committee members plan events (~10-15 members)
  ▫ 12-60 graduate students attend events

• Grad SWE Google site:
  https://sites.google.com/site/sweutgraduatecommittee
Programs and Events

• Event Breakdown
  ▫ Categories: Professional, Technical and Social
  ▫ Per semester:
    • Three main events (could be professional or technical)
    • At least one or two socials (depending on how busy people are)
• Sample Events:
  ▫ Professional:
    • Options in...
    • How Do I...
    • Informal faculty lunches
  ▫ Technical:
    • Grant writing workshop
    • Etiquette dinner (Spring)
    • Resume vs. CV workshop
  ▫ Social:
    • Dessert meet and greets
    • Happy Hours

• Mentoring Undergraduates
  ▫ Applying to graduate school – both local section and national SWE conference
  ▫ Sit on undergraduate SWE section board and provide insight/feedback
  ▫ Participate in GLUE (Graduates Linked with Undergraduates in Engineering) WEP-sponsored research mentoring program

• Outreach
  ▫ Ann Richards Science Club
Funding & Partnerships

• Supported through the Undergraduate SWE section
  ▫ Have a set budget from the Section for the year
  ▫ Contribute to Corporate Sponsorship Packet the Section sends out
  ▫ Some companies specifically look for how they can support graduate programs

• Partner with Women in Engineering Program
  ▫ Joint Events (particularly professional development events)
  ▫ Some events supported financially
  ▫ All events supported via advertising methods (both internal to UT-Austin and to alumnae for panels)
GradSWE at Iowa State University

Bethany Juhnke
(bethany.juhnke@gmail.com)
The Basics

• Mission and Goals
  ▫ Promote and assist graduate women to be successful in their chosen career path
  ▫ Serve women graduate students within the College of Engineering
  ▫ Develop events to provide professional development, social, mentoring and outreach events based on graduate student priorities
Leadership Structure

- Director of GradSWE
  - Executive Cabinet Member within Undergraduate SWE Section
- GradSWE Committee
  - Director leads committee to accomplish goals
  - 4 committee positions
    - Events Chair
    - Secretary/Publicity Chair
    - Membership Chair
    - Mentoring Chair
Programs and Events

- **Events**
  - 4 Graduate General Meetings (GGMs) per semester
  - Categories:
    - Professional Development
    - Presenting your research
    - Being an Entrepreneur
    - Technical
    - Company tours
    - Wine tours and tasting
    - Volunteerism
    - Food pantry
    - Donate Supplies
    - Social
    - Dinner and Drinks
    - Coffee Breaks

- **Mentoring for Graduate Students**
  - Match graduate women with women in academia and industry depending on their career path
  - Partnership with 3M

- **Outreach**
  - Graduate School Info Sessions
    - Grad Panel
    - Research Seminar
    - 2 graduate women discuss why they choose graduate school and their research
Funding & Partnerships

• Graduate and Professional Student Senate
  ▫ SWE is classified as an undergraduate org.
  ▫ Request a special allocation for our graduate focused events

• Corporate Sponsorship Guide
  ▫ Include information about GradSWE events

• Graduate school info sessions
  ▫ Partner with College of Engineering for cost of event not covered through other avenues
GradSWE at the University of Illinois

Sofie Leon
(leon7@illinois.edu)
The Basics

• Mission and goals
  ▫ serve as a support community and advocate for graduate women in engineering and for undergraduate women interested in pursing graduate studies in engineering
  ▫ committed to providing events and resources that include: professional and academic development workshops, social and networking events, and mentorship opportunities, for graduate and undergraduate students
GradSWE is one of 9 committees at UIUC SWE headed by the GradSWE Director

Committee Members – 8 chairs
- Plan professional and academic development events geared for grad students
- Hold social events to strength SWE community
- Secure corporate funding and participation in events
- Collaborate with engineering departments and College of Engineering
Programs and Events

- Graduate Professional Development Events
  - Career paths for PhDs panel
  - Workshop on effective Presentations
  - Resume vs. CV workshop
  - Brown bag lunch and learn workshops
- Social Events
  - Weekend BBQ
  - Happy hours

- Undergrad Professional Development Events
  - Why grad school luncheon
  - Surviving undergrad panel
- Mentoring
  - Grad/undergrad mentoring through SWE
  - New grad/senior grad mentoring with NSBE and SHPE
Funding & Partnerships

- Funding from UIUC SWE section
  - Social events, joint events with undergrads
- Corporate funding for professional development events
  - Previous sponsors include: Intel, Sargent & Lundy, Whirlpool, Morgan Stanley
- Support from engineering departments and College of Engineering Dean
  - CEE, CS, and ME departments are providing funding for Grad students to attend National Conference
  - Joint events with College of Engineering funded by Dean’s office
Questions for the Panel
Panelists

• **Tabitha Voytek**
  ▫ FY13 SWE Graduate Member Coordinator
  ▫ Carnegie Mellon University

• **Kayla Shaw**
  ▫ University of Notre Dame
  ▫ Graduate Professional Development & Career Guidance Chair at Notre Dame

• **Gwen Effgen**
  ▫ Columbia University
  ▫ President of Columbia GradSWE

• **Katharine Brumbaugh**
  ▫ University of Texas at Austin
  ▫ UT Austin SWE Grad Committee Co-Chair

• **Bethany Juhnke**
  ▫ Iowa State University
  ▫ Director of ISU GradSWE

• **Sofie Leon**
  ▫ University of Illinois
  ▫ Director of Illinois GradSWE
Closing Remarks
GET FIRED UP for RAPID FIRE!

Posted on September 11, 2012

You still have until the 17th of September to add your abstract to the pool of graduate students hoping to present their research at WE12. Application forms are located at the following link:

https://docs.google.com/spreadsheet/viewform?formkey=dHM1LVNGTnJFartTHZ4U3Nzb3RIR1E6MQ

Keep me posted!
Local Graduate Groups

The goal of this page is to provide a comprehensive list of all the graduate groups currently active in SWE in order to facilitate best practices sharing, provide contacts between groups, and help individual graduate members get in touch with their local groups. If you have a graduate group at your university (or some form of graduate involvement), and it is not currently on the list, please email grad-coordinator-elect@swe.org with a brief overview of your program — including a contact name and email.

Region A
Region B
Region C

THE UNIVERSITY OF TEXAS AT AUSTIN
UT-Austin Graduate SWE Committee is made of approximately 20 committee members who plan and organize professional development and social events targeted towards
SWE Graduate Members Facebook Group

www.facebook.com/groups/swegrad/
Many Graduate Sessions Scheduled
More information at we12.swe.org
2013 Region Conferences Graduate Initiative

Graduate Presentation at the Spring Region Conferences
Topic: Funding your Graduate Education
Seeking Presenters (email grad-coordinator@swe.org)
General Benefits of SWE
Personal/Professional Development

- Webinars and Podcasts
- Archived collections to view anytime
- Free to members
- Topics Include:
  - Little Things Mean A Lot: From Microinequities to Micro-Affirmations
  - She Said/He Said: How to Understand and Leverage Communication Style Differences

- Topics, cont’d
  - Improving Your Emotional Intelligence
  - Work Life Effectiveness Series
  - Gaining the Competitive Advantage through Building a Strategic Network
  - Excelling as the Technical Guru
  - Women's Way of Leadership - Being a Leader and Leaving a Legacy
Leadership Development

- Leadership opportunities exist at every membership level
  - Section, Region, Society
- Work with professional members and prominent SWE leaders
- Email, teleconferences, and face-to-face meetings at conferences
- Several Task Forces and Coordinator positions are also available

- Society-wide Committees:
  - Audit
  - Awards & Recognition
  - Bylaws
  - Collegiate Interest
  - Collegiate Leadership Coaching
  - Curriculum
  - Ethics
  - Finance
  - Government Relations & Public Policy
  - Leadership Coaching
  - Membership
  - Multicultural
  - Nominating
  - Outreach
  - Procedures
  - Program Development Grants
  - Scholarship
  - Strategic Planning
Career Planning Resources

- Online Career Center
  - Create a professional profile
  - Search job openings
    - MS, ME, PhD listings for industry and academia
- Online Career Fair
  - Explore companies that are specifically recruiting SWE members
- Career Toolbox
  - Archives of articles to help build and sustain your career
  - “Submitting a Successful Grant Proposal”
- Career Insights Podcast
  - Career advancement advice
  - Work-life balance discussions
  - Technical focus topics
News and Publications

SWE Magazine

- Published quarterly, plus October Conference issue
- Digital and Print
- Articles cover issues of interest to women engineers, including
  - Achievements of women engineers
  - Career development
  - Career guidance for and outreach to students
  - Demographics and statistics
  - Activities within the Society
  - Technical themes geared to broad engineering audience
University Labs: Where Women Excel

By Charlotte Thomas and Contribution

What propels women to head university labs, especially when tenure and biological calendars collide? Three SWE members who direct engineering labs offer keen and encouraging insights.

University engineering research labs and centers encompass a remarkable fusion of elements. Amidst the jumble of equipment, voices, and computers, seasoned faculty members to undergraduate students work on diverse projects in various stages of development.

Historically, the role of the lab or center director, often described as an entrepreneurial CEO, whose list of responsibilities is stunning in its complexity. Starting with tending the funding pipeline with well-written proposals that procure grants, they mentor and train the next generation of researchers and professors. While keeping abreast of their own research, getting published, and teaching, they must interact with industry to move fundamental research to prototypes and products—all while maintaining lab safety and managing staff and technicians. In some cases, they also determine salaries.

Though funding, research, and teaching are the primary responsibilities of running a lab, according to three SWE members who currently head university labs, internship, networking, and fostering environments in which others can succeed are also major components. According to Patricia Davis, Ph.D., director of Stanford University’s Ray D. Horch Lab and professor of mechanical engineering, a typical lab director teaches classes in others. Her function is to discern how best to serve the good students and faculty members in her lab.

Likewise, “working with brilliant, fun, motivated students on their way to change the world” is what Beth Frisch, Ph.D., describes her position as principal investigator at Stanford University’s Microsystems Laboratory (by Cathy Pieronek)
SWE All Together E-Newsletter

- Monthly e-newsletter
- Monthly focus topics highlighting recent/upcoming events and milestones
- Primary mode for society updates and info
- **Collegiate News**
  - Includes articles and news for graduate students!
Personal, Professional, and Leadership Development Sessions
  ▫ Sessions for Current and Future Graduate Students coordinated by Graduate Programs Coordinator

Network with other SWE members

Career Fairs

Awards & Recognition
  ▫ Collegiate Technical Poster Competition
    ▪ Registration and travel stipend provided for finalists
    ▪ Cash prizes for 1st-3rd place
  ▫ Outstanding Graduate Collegiate Member
  ▫ Program & Event Awards
Scholarship Program

- Several scholarships/fellowships for graduate students in all engineering disciplines
- Range from $1,000-$10,000
- Application cycle is from December through February for the following academic year
- [www.swe.org/scholarships](http://www.swe.org/scholarships)