

Chemical Engineering Faculty Meeting- Open session

January 22, 2018 | 2:30 - 3:30 pm | Benson Hall room 109

Attendance

Faculty Present (blank=absent)

Department Chair, Francois Baneux - Present

Stu Adler	P	James Carothers	Brad Holt	P	Elizabeth Nance	P	Buddy Ratner	
Graham Allan	P	David Castner	Samson Jenekhe	P	Rene Overney	P	Daniel Schwartz	
David Beck		Cole DeForest	P	Shaoyi Jiang	P	James Pfaendtner	Eric Stuve	P
John Berg	P	Hugh Hillhouse	Andy Kim	P	Jonathan Posner		Venkat Subramanian	P
Guozhong Cao	P	Vincent Holmberg	P	Mary Lidstrom	Lilo Pozzo	P	Qiuming Yu	P

Others Present

Stephanie Ashby	Debbie Carnes	Allison Sherrill	Nicole Minkoff	Jesse Chiem	Dave Drischell
Jessie Muhm	Kaitlin Colleary	Victor Hu (Aces)			

Announcements and new Business – François Baneux

- Dave Beck appointed Adjunct Faculty in CSE
- Kaitlin Colleary promoted to Associate Director of Advancement for ChemE, CEE and A&A.
- Jessie Muhm now working on CoE Diversity & Access and supporting BioE, EE, MSE and CEI
- Ray and Kaye Marzullo endow new Distinguished Scholarship with \$250K gift
- Micron Foundation \$25K gift to develop a new DS-themed Unit Operations experiment
- Alumni Jud Virden wins CoE Diamond Award for Distinguished Alumni in Industry
- Cole DeForest work on polymeric logic gates (Badeau lead) published in Nature Chemistry and featured on UW News. Nature Review Materials paper to appear in February
- Elizabeth Nance selected as Associate Scientific Advisor to Science Translational Medicine
- Gaby Tosado featured on CoE news and CoE home page for outreach work with WChE and CEI
- Bio-Supp forms due on January 31
- Send nominations for 2018 Moulton medalists – Vote on February 5th faculty meeting
- New ACES President Victor Hu was introduced to faculty

2018 Masters Program Applications and Admissions Updates – Qiuming Yu

- Prof Yu presented slides showing admissions statistics
- There were slightly fewer applicants this year (about 120) than last year (about 130)
- 34% of applicants are female, 66% are male, 33% of 1st round offers to female applicants, 67% to males
- Slides also illustrated diversity of applicants, with 32% from China, 16% from US, 15% from both India and Taiwan and the rest from other countries

François Baneux noted that export control regulations may be a consideration for accepting students to labs that conduct certain types of research.

Review of new graduate student request by faculty – Eric Stuve

- 3 PhD's are guaranteed admission this year so far, the target is 9, and ideally department would like to have 15.
- 25-30 offers are going out this week.
- March 2, grad students will visit for annual "Graduate Student Visiting Day" welcome and info sessions.

Faculty – Please let Eric know of conversions on proposals. 3.75 GPA is the cutoff for incoming. Also let Eric know if any "maybe" acceptance status is changing to "no"

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Ten Year Review Update – Brad Holt

Review Timeline

- Autumn 2017: Department Duties
 - Suggested Core questions
 - Suggestions for Review committee members
 - Date of review
- Winter/Spring/Autumn? 2018: Charge meeting ; Graduate school decides on final questions
- **Feb 1, 2019 Self Study Report – Faculty and Staff to be involved in compiling this report**
- **May 9-10, 2019 Site Visit – Faculty please save the date**
- May 2019: Review Committee Report
- June – Autumn Quarter: Department Response
- Autumn 2019: Graduate School Council Review

Proposed Review Questions

- How can the department make its data science initiative a success?
- What other research and educational directions should the department pursue to distinguish itself and provide opportunities for its students?
- Laboratory experiences are an important component of the Chemical Engineering education. How can the department maintain, grow, and improve these experiences.
- How can the department sustain and improve its entrepreneurial design program

François Baneyx said: This will be a comprehensive review, individual faculty will be expected to give presentations to the review committee. This will be an opportunity for external promotion in the UW community and elsewhere outside of the department. We should combine 10 year review efforts with ABET reporting.

ABET Update – Stu Adler

- There are no changes to our department's outcomes requirements for 2019-2020. We are grandfathered in from 2019-2020 revisions.
- Outcome 2 has changed since last ABET, however. There are 7 key performance indicators (KPIs) to measure. ABET committee proposes to explicitly choose to measure one indicator, but projects will be designed to intrinsically include all criteria. We would also provide explanation of how we measured the outcome.
- Outcome 7, "Teams", ABET has added "creates collaboration and is inclusive". Impacts 486, need to add an additional KPI to the student survey which measures this.

MOTION (PASSED): Stuart Adler moved to Change KPI's and modify questions 2b, 4b and add 7c to address changes in ABET outcomes. Motion was seconded by Brad Holt, all voted yes, motion passed.

Data Science Initiative Update and Discussion – Lilo Pozzo & Strategic Planning Committee

- François introduced updates with a slide presentation. Highlights included departmental commitments for TA support for a Spring graduate training program in DS, pending funding proposals, and secured funding from Micron for UnitOps experiments related to DS.
- **François also announced a 100K commitment to support up to 4 DS projects in ChemE. Proposals are due February 4, with a funding decision on February 15, and deliverables due in Fall 2018**
- Lilo Pozzo presented the strategic planning committee's recommended near-term initiatives, highlighting high-impact projects to engage faculty in DS. Initiatives include faculty release time for training and conferences, funding for data acquisition, EFRC development, and expansion of the DIRECT program to include non-energy graduate research

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- It was noted that Bio Engineering has large data sets and good tools, and other areas of ChemE are lagging behind on this. A suggested solution was to incentivize modifications or provide/seek matching funding for new tools.
- Elizabeth Nance remarked that data storage could be a cost and resource problem, and François suggested that we might engage (industry) partners to help with this.
- It was also mentioned that support of student release time could be a way to foster engagement of our students in DS
- Francois offered that there are many UW groups using DS, and that we should consider collaboration. Brad Holt agreed, and added that there may be foundations with which we can work that can connect faculty to external resources. Brad suggested that ChemE invite an outside expert in DS, such as a CSE student. François remarked on the possibility of recurring funding for this.

There was a closed session and voting on a new affiliate appointment and an affiliate reappointment.

Meeting Adjourned at 2:56pm

