Department of Chemical Engineering Faculty Meeting

Minutes

Monday, January 23, 2017

109 Benson Hall | 2:30-3:30 p.m.

Faculty Present:			
François Baneyx (Chair)	Stu Adler	Graham Allan	David Beck
John Berg	James Carothers	Dave Castner	Vince Holmberg
Brad Holt	Sam Jenekhe	Andy Kim	Elizabeth Nance
Jim Pfaendtner	Lilo Pozzo	Eric Stuve	Venkat Subramanian
Qiuming Yu			
Others Present:			
Debbie Carnes	Dave Drischell	Brian Gerwe (ACES)	
Miguel Hernandez (AIChE)	Nicole Minkoff	Jessie Muhm (Advance)	
Shoko Saji	Joanne Tall (Minutes)		
Faculty Absent:			
Cole DeForest	Hugh Hillhouse	Shaoyi Jiang	Mary Lidstrom
Rene Overney	Jonathan Posner	Buddy Ratner	Dan Schwartz

Meeting called to order at 2:32 p.m.

1. Announcements and New Business

- Tosh Chilkoti (PhD '91) wins Diamond Award - He is Chair of Biomedical Dept. at Duke, received his PhD from Buddy Ratner
- Biographical Supplement (for calendar year 2016) & CV due 1/31 to Joanne (now covers Jan-Dec period for the previous year)
- Send Moulton Award Nominations to Shoko by 1/31 (name & short bio)

2. Strategic Planning – Baneyx

- Additional discussion was conducted on the energy interconversion/interface engineering energy intiative within the context of new hires
- Initiated 5/2/1 years projection & timeline to goals
- 1 Year:
  - ½ day workshop with ChemE stakeholders to identify proposal opportunities in energy (JP)
  - Establish brown bag energy series (VS)
  - Industrial outreach effort – Coordination with NRT (LP/JP)
  - Build up bridges/consensus with other departments/joint proposals
- 2 Years:
  - Hire a faculty with skills in (in situ/in operando) characterization of interfaces (possible focus on microscopy/with MSE)

- Hire a faculty in materials synthesis and manufacturing/processing (shaped by scale-up and cost to drive innovation)

- 5 Years:
  - Become a national leader in the field of reversible energy interconversion
  - (ERC/STC/EFRC level) (SAJ/All)
- Next steps - François will send action goal table for faculty to populate, more discussion will follow in faculty meetings and a path for resource allocation will be established

3. Faculty of 2025 – Committee

- Additional discussion and editing. Due end of this month in Dean's office

4. New Course Proposals (Vote):

ChemE 534 *Physiological Processes in Engineering Nanomedicine*: **Nance**

17 – 20 students. Undergrads will take as grad course

Motion (Holt):
"I move we approve the New Course, "ChemE 534 *Physiological Processes in Engineering Nanomedicine*:

Nance. Pfaendtner seconded. None opposed, none abstained. All in favor.

Motion was approved.

ChemE 545 *Data Science Methods for Clean Energy Research*: **Beck/Pfaendtner**

ChemE 546 *Software Engineering for Molecular Data Scientists*: **Beck/Pfaendtner**

Discussed together.

These two classes are part of NRT and will grow. High demand for them

Motion (Stuve):
"I move we approve the New Courses, "ChemE 545 *Data Science Methods for Clean Energy Research*:

Beck/Pfaendtner, and ChemE 546 *Software Engineering for Molecular Data Scientists*:

Beck/Pfaendtner. Castner seconded. None opposed, none abstained. All in favor.

Motion was approved.

Meeting was adjourned at 3:34 p.m.

Minutes respectfully submitted by Joanne Tall.