

THE UNIVERSITY OF WISCONSIN-MILWAUKEE
College of Engineering and Applied Science

FACULTY MEETING

Friday, September 25, 2015 1:00 p.m. EMS E190

MINUTES

The meeting was called to order at 1:05 p.m. with Dean Brett Peters presiding. Forty-six members were present:

EXCUSED: Professors Abu-Zahra, Chang, Cheng, Cuzner, D'Souza, Ghorbanpoor, Goyal, Hu, Lopez, Munson, Nambisan, Perez, Renken, Sobolev, Venugopalan, Wornyoh

ABSENT: Professors Liao, Pashaie, A. Rahman, T. Zhao

GUESTS: J. Opitz

I. ANNOUNCEMENTS

- A. Jean Opitz provided a summary of the Comprehensive Campaign and recognized CEAS donors to the UWM Gives to UWM campaign – See Attachment 1

II. INTRODUCTIONS

A. Faculty

1. Yongin Sung, Assistant Professor, Mechanical Engineering
2. Jie Yu, Assistant Professor, Civil and Environmental Engineering

B. Staff

1. Andrew Dressel, Lecturer, Mechanical Engineering
2. Jane Martell, Human Resources Manager
3. Mohamed Yahiaoui, Lecturer, Mechanical Engineering

III. INFORMAL REPORTS – See Attachment 2

IV. AUTOMATIC CONSENT BUSINESS

A. Minutes of the April 24, 2015 meeting

B. New Courses – See Attachment 3

V. NEW BUSINESS

A. Dean Peter's General College Update

Dean Peters provided a thorough review of the progress of the college in meeting the strategic plan goals – See Attachment 4

- (1) Individuals promoted to Professor and Associate Professor were congratulated.
- (2) Ethan Munson is the new Associate Dean for Academic Affairs, and Adel Nasiri is the new Associate Dean for Research. Susan McRoy, Hector Bravo, and Ron Perez were thanked for their past service to CEAS.
- (3) The budget situation on campus was reviewed.
- (4) The budget impact to CEAS in FY16 was a loss of \$750,000. The size of the reduction for FY17 is still to be determined.
- (5) Tuition revenue is critical to future activities in CEAS, as most of our revenue is from tuition.
- (6) UG and master's enrollment is up, but Ph.D. enrollment is down, as are research expenditures.

VI. GENERAL GOOD AND WELFARE – None

VII. ADJOURNMENT

Meeting Adjourned at 2:04 p.m.

John R. Reisel, Secretary
CEAS Faculty

JRR
Attachments

Development & Alumni Relations

Mission and Purpose

In collaboration with our internal and external stakeholders, maximize non governmental support for UWM's schools, colleges, units, and programs through a comprehensive development and alumni relations program that...

- Promotes a university-wide culture of philanthropy and stewardship
- Engages alums through high impact and highly visible programs and services
- Supports and fosters investment in campus priorities
- Respects donor philanthropic interests and passions
- Provides a joyful giving experience
- Complies with relevant professional codes of conduct and ethics
- Holds parties accountable for meeting goals and objectives

Vision 20/20 Campaign at UWM

UWM Campaign Support in 2014-2015: \$30,113,005

CEAS Campaign Support in 2014-2015: \$874,436

Responsibilities of CEAS Development Office

To discover and develop supportive relationships with alumni, individuals, foundations and corporations for the benefit of UWM's College of Engineering and Applied Science.

To cultivate, steward and continue rewarding relationships with donors.

To work with priorities established by the dean.

To develop a strong major gift program and to enhance the culture of philanthropy among faculty, staff and students.

CEAS Development Projects / Programs to be Aware Of

- 1) Comprehensive Campaign Management
- 2) Telefund Solicitation to Alumni (Fall, Spring)
- 3) Direct Mail (Fall, Spring Alumni Mailing)
- 4) Scholarship Excellence Program
- 5) Alumni Association Events
- 6) Fall Scholarship Reception Nov. 12
- 7) Chancellor's Society—Min. gifts of \$1,000
- 8) Chapman's Society—for Planned Gift donors

Why Development will Contact You

- 1) To help Development prepare for prospect and donor meetings
- 2) Assistance in creating a CEAS Experience (tours, etc)
- 3) Telling your story / Being the expert
- 4) Awarding scholarships/prizes

Reasons to Contact Development

- 1) You are looking for support: scholarships, fellowships, study abroad, research, equipment, etc.
- 2) You have questions about the UWM Foundation, Inc.
- 3) Need help identifying new prospective donors —building a development program.
- 4) You were approached by a possible donor? Call Development first to create a strategy.

CEAS Development Staff

Jean Opitz

Senior Director of Development
opitz@uwm.edu - (414) 229-5603

INFORMAL REPORTS

Office of Student Services – Todd Johnson
No Report

Career Services – Juli Pickering
No Report

Curriculum Committee – Prof. Tabatabai

The committee met on September 2, and approved four CAR forms.

Graduate Program Subcommittee

No Report

Academic Planning Committee – Prof. Misra

(1) APC at its last meeting in May '15, elected Professor Dev Misra as the Chair for the year 2015-2016 and discussed curricular issues.

(2) Dean Peters updated the Committee of the restructuring of his office and lead a discussion on UWM and CEAS budget.

(3) In Fall '15, APC is scheduled to meet from 11am to 2pm on September 18, October 16, November 13, and December 11.

(4) APC members for year 2015-2016 are - Professors Abu-Zahra (MA), Hosseini (CS), Misra (EE), Seifoddini (IE), Tabatabai (CEE), Qu (ME), and Dean Peters (Ex-officio).

Biomedical and Health Informatics – Prof. McRoy

An award has been received from the Department Education Award to fund 8 3-year doctoral fellowships, which will be combined with TA ships to provide up to 5 years of full suport. Biomedical or computational faculty from any department may potentially be a Major Advisor to students in the Biomedical and Health Informatics- so faculty should encourage capable, eligible students to apply. (Eligibility requires US citizenship/permanent residency/residency applied for and full-time enrollment.) Contact Susan McRoy for more information.

Graduate Faculty Committee – Prof. Hosseini

No Report

Faculty Senate – Prof. Reisel

In business most relevant to CEAS, the Faculty Senate conducted a Committee of the Whole discussion on the University Committee's suggested Policy Statement on Academic Freedom and Tenure. This document was created in response to Chancellor Mone's request to provide assistance in developing the campus' policies with respect to tenure in light of the changes to Chapter 36.

The Faculty Senate also approved the request to authorize the implementation of a Bachelor of Science in Biomedical Engineering.

NEW COURSES

- BME 101 FUNDAMENTALS OF BIOMEDICAL ENGINEERING, 3 cr. U
A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design.
Prereq: MechEng101 (C)
- BME 495 BIOMEDICAL INSTRUMENTATION LABORATORY, 3 cr., U
Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects.
Prereq: BioSci 203(P), BME 101(P), ElecEng 310(P), ElecEng 436(P), MechEng 469 (C)
- BME 595 CAPSTONE DESIGN PROJECT, 4 cr., U
Introduction to design process and ethics; Students work in teams to plan, design, and test in a simulated real-world environment; formal oral and written reports.
Prereq: sr st; BME 495(P)

ATTACHMENT 4

Dean Peter's Powerpoint presentation can be found on the following pages.

September 2015

Faculty and Staff Meeting

**COLLEGE OF ENGINEERING
AND APPLIED SCIENCE**

Welcome!

- Assistant Professors
 - **Yongjin Sung**, ME - Biomedical
 - **Jie Yu**, CEE - Transportation
- Teaching Academic Staff
 - **Mohamed Yahiaoui**, ME
 - **Andrew Dressel**, CEE/ME

Promotions – Congratulations!

- Professor
 - Naira Campbell-Kyureghyan, IME
 - Adrian Dumitrescu, CS
- Associate Professor with tenure
 - Ilya Avdeev, ME
 - Benjamin Church, MSE
 - Yi Hu, EE
 - Changsoo Kim, MSE
 - Michael Nosonovsky, ME
 - Ramin Pashaie, EE

Admin Changes

- Ethan Munson
 - Associate Dean for Academic Affairs
 - Bring together undergraduate and graduate
 - Focus on strategy and initiatives
 - More authority and responsibility to Chairs/Departments
- Adel Nasiri
 - Associate Dean for Research
 - Focus on strategy and initiatives
 - Administrative Affairs to be distributed among Assistant Dean for Business, Chairs, Dean, Associate Deans, other

University Strategic Areas

- Student Success
- Research Excellence
- Community Engagement
- Climate and Culture
- UWM image and visibility

Strategic Goals

1. Make CEAS an outstanding environment in which to learn and to work
2. Create a dynamic environment and infrastructure to enhance innovative research
3. Anticipate and respond to market demands in order to produce graduates who are prepared to address and adapt to the changing needs of the marketplace and society
4. Build partnerships with stakeholders and enhance awareness of CEAS strengths and accomplishments

Academic Plan

- Research leads the way
 - Research growth and enhancement is the path to fulfilling the strategic goal of being top 100 College of Engineering
 - Grow externally funded research
 - Grow visible, well-regarded, impactful research
 - Grow prestigious, scholarly publications
 - Enhance visibility of our faculty
 - Grow PhD program

Academic Plan

- Enhance the student experience
 - Attract, retain, and graduate increasing numbers of well prepared students
 - Create compelling new options, specializations, degrees
 - Engage the students in meaningful activities
 - Undergraduate research (including freshmen), engineering design, innovation and entrepreneurship
 - Enhance student organizations and other extra-curricular activities
 - Help with transition to upper level
 - Living learning communities
 - Study groups; peer mentoring
 - Involvement with departments, faculty, and upper class students
 - Early warning signs → connect with advisors

Goals

- Research: Externally funded expenditures, Scholarly publications, Visible centers
- Students: Number of graduates/year, Graduation rate, Placement rate
- Faculty: Size, Editors, Fellows, Chairs, NAE
- Fund raising: Chairs, Fellowships, Scholarships, Capital

UWM Budget Cut

Breakdown of UWM's Cut	Amount
UWM's Share of \$150 Million Annual Base Reduction (13.6%)	\$20,430,000
Additional Annual Reduction for Unfunded Costs	\$2,121,000
Total Annual Cut without Restored \$25 million	\$22,551,000
UWM's Share of Restored \$25 million (18%)	(\$4,508,800)
UWM's Total Annual Base Cut with Restored \$25 million	\$18,042,200
UWM's Share of UW System \$20 million one-time funds (29%)	\$5,825,100
<i>Amount Needed to Fund Cut in FY 2016</i>	<i>(\$12,217,100)</i>
Amount Needed to Fund Cut in FY 2017	(\$18,042,200)
Total UWM Cut Over FY 15-17 Biennium	(\$30,259,300)

UWM Funding

- \$30-35M net operating deficit for FY16
 - i.e., FY16 expenditures > FY16 revenues
- Many contributing factors
 - Budget cuts
 - Tuition freeze
 - Declining enrollments
 - Historical underfunded GRP allocation
 - Significant capital and program commitments
 - Renege on DIN base fund allocations

UWM Plan

- Chancellor's Campus Organization & Effectiveness Team (CCOET)
 - Consider opportunities across breadth of university
 - Look for large scale efficiencies and cost savings from reorganization
 - Consider restructuring options to position for future growth
 - Define what a “new UWM” would look like in terms of Resources, Structure, and Operations
 - B. Greenstreet and J. Reisel co-chairs
 - Recommendations by February 2016

Impact on CEAS

- FY 16 takeback of \$750,000
- FY 17 and beyond – unknown???
 - By scaling FY 16 amount, the projection is \$1.1M base reduction
- Our College is strategically important but somewhat expensive

Impact on CEAS

- Tuition revenue is critical
 - Comes from enrollment
- Must recruit and retain more students
 - Undergraduate
 - Tuition paying masters

Goals and Targets

Area	2014	2015	Target
BS Enrollment	1600	1689	1850
BS Graduates	292	280	370
MS Enrollment	211	231	500
PhD Enrollment	211	199	350
Research Expenditures	\$5.9M	\$4.3M	\$25M
Gifts Received	\$0.4M		\$1.75M
T/Tr Faculty Size	70	73	100

Continue to execute our plan...

Initiatives

- Undergraduate Recruitment
 - Strengthen outreach and recruiting efforts
 - Email campaign
 - Virtual tour
 - Campus visits
 - Enhance scholarship offers
 - Add undergraduate research fellowship
 - Commit upon admission
 - New programs
 - Biomedical engineering
 - Begin promotion and recruitment after final approval this fall
 - Consider other certificate and concentration options
- Enhance student experience
 - Intern, research, extracurricular, connections

Initiatives

- Graduate Programs
 - Professional Masters development
 - Streamlined, course-based option
 - Build on certificate programs
 - Address industry interest
 - Leverage on-line course offerings where appropriate
 - E.g., Advanced Embedded Systems
 - Leverage BS/MS program
 - Enhance international relationships
 - Maintain strong PhD pipeline
 - Funding, structure of offers, promotion of program, targeted recruiting

Initiatives

- Enhancing Research Activity
 - Key research centers/institutes in theme areas
 - Help each faculty member reach next “level of activity/excellence” and reward success
 - Strengthen partnerships
 - Internal to UWM, External universities, and Industry
 - Build on key successes: existing centers, strong connections to federal agencies, ongoing collaborations
 - Track scholarly publication activity and impact as measures of research productivity

Initiatives

- Administrative
 - Restructured Associate Dean roles and responsibilities
 - Focus on strategic initiatives
 - Facilitate expedient, successful implementation by working closely with departments and faculty
 - Provide more responsibility and authority to departments with accountability
 - Budget, workload, program development...
 - Incentivized based on contributions to key goals and metrics

Initiatives

- Alumni and Community Engagement
 - Exploit 50th anniversary to reconnect with alumni and friends
 - As well as a celebration for current faculty, staff, and students
 - Leverage industry connections in multiple directions
 - Build base for current and future fund raising success

Initiatives

- Internal Environment
 - Use 50th anniversary to celebrate and appreciate current faculty, staff, and students
 - Communicate about status of college
 - Empower and incentivize departments to achieve goals
 - Reinvigorate Best Place to Work group and activities
 - Use Climate Survey results to identify other opportunities and direct other actions

Summary

- Challenging external environment
- Our growth remains good and our potential remains strong
 - Several new initiatives in progress
- Must reenergize research activity
 - Good core activities to build on
 - Focus efforts at multiple scales
- Continue to strive for new resources
 - Self generated through enrollment growth
 - New infusions derived from our value added
 - Gifts in support of our mission