

Chairs' & Center Directors' Meeting Minutes

Date: October 25, 2010 (12:00 to 2:00 pm)

Location: EBU II – Room 443

Attendees: Abbaschian, Reza
Balandin, Alex
Bhanu, Bir
Boretz, Mitch
Davidson, Don
Haddon, Robert
Hartney, Pat
Lake, Roger
Lonardi, Stefano (for Laxmi Bhuyan)
Najjar, Walid
Parker, Linda
Payne, Tom
Ravi
Rodgers, Victor (for Jerry Schultz)
Stahovich, Tom
Yan, Yushan

Absent: Barth, Matt
Bhuyan, Laxmi
Matsumoto, Mark
Schultz, Jerry
Xu, Daniel

The agenda for the meeting is shown in Appendix 1.

1. Welcome and call for agenda items - Reza

Reza stated that he spent last week in Houston at the MS&T Conference which was organized by four materials societies. During the Conference, he received an award for his 40 years of service to materials science. Gordon Bourns and Ernie Levister represented BCOE's Council of Advisors at the award ceremony. Reza will attend next week's UCR Leadership Council meeting with the Chancellor, EVCP and other Deans. There were no items added to the agenda.

2. Approval of Minutes - Pat

The minutes of the October 4th Chairs/Directors meeting were unanimously approved.

3. Strategic White Papers

Reza stated that the only revised Strategic White Paper he's received to date was from CEE. BCOE's Strategic White Papers need to be in the context of UCR's Strategic Plan. Specific recommendations included:

- ME should revise the title of its Strategic White Paper from "Research Program in Air Pollution" to "Research Program in Air Quality."
- The CRIS topic of "Bio-imaging and Informatics" should be included under the BCOE topic of "Healthcare Technology" which was drafted by BIEN.
- CNSE will revise the title of its topic from "3D Electronics" to "Next Generation Electronics."

Revised BCOE department/program Strategic White Papers need to be sent to Reza (with a copy to Mitch) by this Friday (10/29/10). Mitch will provide Executive Summaries for the White Papers and will try to standardize formats. Reza believes that UCR's Strategic Plan will drive campus budgeting decisions (at least in the short term).

4. Space - Chairs

Reza received some reasonable and unreasonable requests for additional space from BCOE faculty. He has formed a new Space Committee to make space allocation recommendations. This Committee consists of BCOE Chairs and is led by Mark Matsumoto. Reza noted that, after the new MSE Building is opened, BCOE may not get any additional space until 2015 when EBUIII is scheduled to be available. As such, he wants the Space Committee to make recommendations on how best to allocate and package BCOE's space. Lastly, it was noted that CRIS needs additional space for its new IGERT program students. BIEN offered to accommodate this space need.

5. Undergraduate Education - Ravi

Ravi noted that UCR's freshmen application deadline is in November. He expects that UCR will be more conservative this coming year with its admissions. Ravi is planning to lower the number of freshmen initially admitted to BCOE and to establish a waiting list for other qualified students. BCOE will accept students as needed from this waiting list until it meets its incoming freshmen target.

Also, Ravi noted that the advising load in BCOE is particularly high this year due to the large number engineering undergrads and the maternity leaves of two BCOE Undergraduate Advisors.

Ravi stated that BCOE's engineering design project has been opened to BCOE freshmen this year. 15 have signed up so far.

Ravi stated that he still needs freshmen admission targets from BCOE departments. After discussion, the responses from departments were:

- EE can handle 100 juniors.
- CS has handled 1,000 majors in the past.
- CE's situation is similar to EE and CS.
- BIEN has 185 freshmen now and can handle more but needs more resources for TAs, equipment, lecturers, etc.
- ME is working on its enrollment target.
- All departments would need additional resources to handle more students.
- BIEN and ME currently have lab space problems due to their increased number of students.

Reza suggested that departments consider having a common two-year curriculum for engineering undergrads after which students would be assigned to departments/programs.

It was noted that high school math courses and grades could be used to evaluate BCOE freshmen applicants. However, UCR doesn't have accurate data on high school math courses for its students so BCOE will have to undertake this analysis. Reza stressed that BCOE has a moral obligation to provide access and assistance to qualified high school graduates.

6. Faculty Recruitment – Reza

Reza distributed a summary of the 15 BCOE faculty hiring requests he's made to the EVCP. This request consists of: BIEN (2); CEE (2); CSE (3); EE (2); ME (3); Materials/Energy (1); Distributed Sensing and Control (1); and Civil/Construction Management (1).

Yushan stated that CEE needs at least three new hires to replace departed faculty. Reza appreciated the fact that CEE didn't pursue other (lower ranked) candidates after the department's first choice declined its faculty offer last year. As such, Reza committed the Materials/Energy search to CEE (for a total of three searches). Reza hopes that the EVCP will respond to his request by the end of the week although the decision may be made after next week's Leadership Council meeting.

7. Other Matters

It was noted that an automated response system for BCOE's ABET use will be coming soon.



Chairs & Center Directors Meeting

October 25, 2010

Agenda

Engineering Building Unit II – Room 443

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| 1. | Welcome - Request for Agenda Items from the Floor | Reza |
| 2. | Approval of Minutes from October 4, 2010 Meeting | Pat |
| 3. | Strategic White Papers | All |
| 4. | Space | Chairs |
| 5. | Undergraduate Education | Ravi |
| 6. | Graduate Education | Mark |
| 7. | Other Matters | |

The next scheduled meeting will be

Monday – November 15, 2010

Please note: Meetings will be held in EBU II – Room 443

Faculty Hiring Requests for 2010-2011 (NOT Approved Yet, except for CEE)

Request has been made to EVCP to advertise for the following fifteen faculty positions. All positions will be at the Assistant Professor Level, with the exception of Civil Engineering position. However, exceptional candidates at the senior level will be considered as well.

- Two faculty lines in Bioengineering department in translational technologies, with secondary priority in healthcare informatics (possibly jointly with the Computer Science Department) . This young department has only 8 faculty members, but its enrollment continues to climb. For example, the department this year has 169 freshmen, compared to 92 last year. The department also has 11 new incoming PhD and 13 MS students this year. With the addition of the Medical School, Bien has plans to expand their research programs into clinically related areas to develop a comprehensive program that interfaces with the health sciences. To achieve this goal, Bien will eventually add about 7 faculty members with capabilities in translational technologies; these include biomaterials, medical devices, diagnostic instrumentation, and drug delivery and design.
- Two lines in the department of chemical and environmental engineering department. The targeted research areas are energy and sustainability. These areas are based on the strategic research plans for the campus (i.e., UCR 2020 Strategic Plan), the college of engineering (COE) and the department of chemical and environmental engineering (CEE), the dramatic increase of graduate and undergraduate enrollment at CEE, the loss of 2 CEE faculty members in the past 2 years due to separation, and their excellent and consistent performance in carrying out research.
- Three lines in the department of Computer Science and Engineering. The targeted research areas will be in Systems, Data Mining, and Graphics. CSE hired one faculty last year, but they are still four faculty members short of two years back. The department has had tremendous growth in graduate and UG enrollment. Not filling these positions will particularly affect their Ph.D. program.
- Two lines in Electrical Engineering. EE will lose two Assistant Professors this academic year; one is in the area of Computer Engineering (CE) and the other is in the area of optical communications. The Department must replace these two faculty members to continue offering the necessary courses both undergraduate and graduate.
- Three Faculty lines in the Mechanical Engineering department in the area of Mechanics, controls and Mechatronics, not only to replace three separated faculty but also address programmatic needs. Hiring in the area of control/mechatronics has been recommended by the recent CEP reviewers, as being critical to the department. Air Pollution Modeling and Biomedical Diagnostics, Therapy, and Devices are two other areas that ME faculty have

identified as being important. The Mechanical Engineering Department currently has 14 faculty, with over 500 undergraduates, and 60 graduate students.

- One Materials/Energy line to finish last year's search. As before, the position will be interdepartmental, serving MSE program as well as home department. Half of the teaching assignment for the MSE faculty will be strictly for his/her department with the other half for MSE courses. All departments will participate in this search.
- One interdisciplinary faculty to support multiple strategic research direction in the area of 'distributed sensing and control'. The EE 5-year plan and the CE-CERT and CRIS strategic research directions have identified one research specialty that will support research in 5 subareas within 'Homeland Security / Surveillance' and 'Energy.' The subareas are 'distributed imaging systems,' solar energy,' 'smart grids,' 'transportation systems,' and 'solid state lighting and optical communication.' The home department will be EE.
- Re-advertisement of the senior level faculty in Civil/ Construction Management program which was put on hold last year. The vision for the Civil Engineering program is to become a national leader in sustainable civil engineering education and research, partnering with business and government to develop the needed new paradigm for future urban development, particularly in Inland Southern California.