Chairs’ & Center Directors’ Meeting Minutes

Date: May 10, 2010 (12:00 to 2:00 pm)
Location: EBU II – Room 443
Attendees: Abbaschian, Reza
Barth, Matt
Bhanu, Bir
Bhuyan, Laxmi
Boretz, Mitch
Davidson, Don
Haddon, Robert
Hartney, Pat
Lake, Roger
Mahalingam, Shankar
Najjar, Walid
Parker, Linda
Ravi
Schultz, Jerry
Stahovich, Tom
Yan, Yushan

Absent: Balandin, Alex
Matsumoto, Mark
Payne, Tom

The agenda for the meeting is shown in Appendix 1.

1. Welcome and call for agenda items - Reza
The group welcomed Tom Stahovich to the meeting. Tom will be replacing Shankar as Chair of ME.

2. Approval of Minutes - Pat
The minutes of the April 26th Chairs/Directors meeting were unanimously approved.
3. Commencement - Don
Don indicated that BCOE’s Commencement planning is moving forward. All BCOE Commencement roles have been filled except for the Grad Student Marshal. Mark will be forwarding this name after receiving input from departments. Don meets each Monday morning with BCOE Grad Assistants to coordinate Commencement activities. Reza proposed that BCOE departments share equally in the cost of the post-Commencement food costs. No objections were raised. There will be four food stations in the EBUUII patio area and departments will have rooms to offer cake and drinks. Signage directing attendees to the various areas will be supplied. BCOE dog tags for graduates will be provided at the sign-in for the post-Commencement reception.

4. Academic Planning and Budget – Reza
Reza stated that the campus is requesting 5 Year Faculty Hiring Strategic Plans from Colleges by the end of May. Reza requested that departments prepare their own plans and forward these plans to the Dean’s Office. He noted that, as of 7/1/10, all senior level faculty open positions will go to the Chancellor’s Office. Colleges will compete for these faculty FTE via requests (with justifications). The EVCP’s focus, as evidenced by the draft Strategic Plan, is on research and graduate training. According to the comparison attached to the agenda, UCR is far below the newest AAU member (Georgia Tech) in terms of research funding. The average competitively awarded federal research funding per faculty member is $310K at GTI and $81K at UCR. GTI has a total of $281M of such research funding compared to $53M for UCR. Research funding is a key indicator of AAU eligibility. Reza stated that possible justifications for adding new BCOE faculty include new research initiatives, new centers and connection with the new Medical School. He reiterated that he does not envision adding departments to BCOE. Any new areas will be designated as a Program (such as MSE) with faculty housed in existing departments. Laxmi stated that Computational Science might be an appropriate new area for BCOE and would include participants from other UCR Colleges. Bir suggested Bio-Informatics. Jerry stressed that the only way to increase the amount of research funding at UCR was to increase the number of faculty (that have research programs). Reza stated that departmental strategic plans should be built on existing strengths. Jerry will forward to the Chairs the list of possible research areas that was developed by his UCR Strategic Planning Committee on Excellence in Research and Creative Activity. In order for BCOE to reach its goal of 140 faculty by 2020, 6-7 new faculty would need to be hired each year for the next 10 years. Jerry asked if the departmental strategic plans that were developed after the last BCOE Retreat could be used. Reza responded that these might be good starting points but that they probably need updating since the Retreat was two years ago. After discussion, it was agreed that the departmental strategic plans are due in the Dean’s Office by 5/24/10. The next Chairs/Directors meeting will be postponed from 5/17/10 to 5/28/10 so that these plans can be discussed by the group.

5. BCOE Council of Advisors - Linda
Linda pointed out the Council of Advisors meeting schedule attached to the agenda. This year’s meeting will be limited to one day (May 21st). Ravi indicated that the Wind Turbine demonstration will include 2-3 foot (student project) models developed by BCOE and Community College students.

Reza distributed an agenda and reminded the group that this year’s end of year COE Faculty Meeting is scheduled for June 4th. After the Meeting, a farewell for Shankar and recognition for the retirements of Tom Payne and Teodor Przymusinski is scheduled.
6. Undergraduate Education - Ravi
Ravi distributed a two-year comparison of the number of BCOE undergraduate students that applied, were admitted and accepted UCR offers. The total number of FY 10/11 acceptances for BCOE is 957 which is an increase of 46% from last year. BCOE program increases ranged from 13% to 113%. UCR’s Freshmen target was 3,850 but the actual number may reach 4,100 (plus transfers). In order to limit enrollments, UCR will rescind acceptances to students that get a D or F grade in their senior year. Also, UCR will reduce the number of transfer students it accepts (except those with transfer guarantees). It was noted that BCOE’s increased Freshmen enrollment will impact CHASS and CNAS first.

Ravi asked Chairs to evaluate the number of undergraduate students their departments want to have. This process should lead to enrollment management for BCOE. It was noted that BCOE incoming students have GPAs of 3.4 and SAT scores of around 1,100 which are low compared to other UC colleges of engineering. UCR wants to reach a 3:1 ratio of undergrads/grad students by 2020. BCOE’s target is 2,500 undergrads, and 800 grad students by 2020.

Ravi noted that UCR’s Physics Department wants to offer a new course (Physics 41) to Physics students only. This means that engineering and chemistry students would take Physics 40A. As such, BCOE may want to offer its own physics course for its students.

Ravi requested ABET updates from departments. Most departments reported that they were up to date in their ABET processes. It was noted that iGrade now includes an optional Comment form when grades are submitted. This Comment section can be used to document course changes. This was an initiative proposed by Marko Princevac in ME and now C&C is working with BCOE to help pilot it. Reza and Mitch will discuss improvements to BCOE’s employer survey process.

8. Other Matters
Linda stated that Agilent might be able to provide instrumentation for BCOE but they need a list of our existing and projected equipment needs. Basically, Agilent might be willing to provide instrumentation at little or no cost if they feel that there will be additional orders for Agilent equipment later on. There is a new Agilent rep (based in Anaheim) for our area. It was noted that photovoltaic instrumentation might be an appropriate area to discuss with Agilent.

Mitch stated that the next Engineering Research Center (ERC) solicitation is expected this fall/winter. He is unsure when the next Science Technology Center (STC) solicitation will be released. Materials Research Science & Engineering Center (MRSEC) solicitations are made each year. Mitch stated that, in order to be successful, he needs companies to sign up early so that we can build the centers before these solicitations are released. He noted that we reached the full proposal stage during the last ERC process. Each ERC cycle lasts about 2.5 years.

Lastly, Mitch noted that he is chair of a committee on Electronic Proposal Submissions for the Association of Proposal Management Professionals. He hopes that this committee will be able to recommend improvements to Fastlane, Grants.gov, etc.
Chairs’ & Center Directors’ Meeting

May 10, 2010

Agenda

Engineering Building Unit II – Room 443

1. Welcome - Request for Agenda Items from the Floor  
   Reza

2. Approval of Minutes from April 26, 2010 Meeting  
   Pat

3. Commencement  
   Don

4. Academic Planning & Budget  
   Reza

5. BCOE Council of Advisors  
   Linda

6. Undergraduate Education  
   Ravi

7. Departmental Updates  
   Chairs/Center Directors

8. Other Matters

The next scheduled meeting will be

Monday - May 17, 2010

Please note: Meetings will be held in EBU II – Room 443
### University of California, Riverside compared to Georgia Institute of Technology

#### AAU Membership Indicators

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#### Phase I Indicators

1. Competitively funded federal research support (in thousands of $)
   - Georgia Institute of Technology: $112,651
   - University of California, Riverside: $19,654

2. Memberships in the National Academies
   - Georgia Institute of Technology: 26
   - University of California, Riverside: 4

3. Membership in the National Research Council (technical quality ratings)
   - Georgia Institute of Technology: 4
   - University of California, Riverside: 1

4. Faculty arts and humanities awards, fellowships, and memberships
   - Georgia Institute of Technology: 21
   - University of California, Riverside: 4

5. Citations
   - Georgia Institute of Technology: 27,396
   - University of California, Riverside: 11,912

#### Phase II Indicators

6. USDA and industrial research funding (in thousands of $)
   - Georgia Institute of Technology: $76,766
   - University of California, Riverside: $11,610

7. Doctoral Education
   - Georgia Institute of Technology: 220
   - University of California, Riverside: 115

8. Number of full-time graduate students, by degree program
   - Georgia Institute of Technology: 175
   - University of California, Riverside: 150

9. Undergraduate Education (Six-Year Graduation Rates)
   - Georgia Institute of Technology: 69.1%
   - University of California, Riverside: 66.0%

#### Other Needed Data

10. Faculty Counts
    - Georgia Institute of Technology: 853
    - University of California, Riverside: 579

Source: [AAU Membership Policy](http://www.aau.edu/WorkAreaLink.aspx?LinkType=ExternalLink&LinkId=110)

**Notes:**

1. National Science Foundation: NSF research expenditure data, that includes federally funded agricultural expenditures.
3. 1994 NRC report 1995. No data provided as 1995 ratings are out of date and the 2008 study still has not been released.
4. Omitted from *The Center for Measuring University Performance* [http://map.usu.edu/research_data.htm](http://map.usu.edu/research_data.htm). For a list of included faculty awards, go to [http://map.usu.edu/sourcedatasearch.html?CareerType](http://map.usu.edu/sourcedatasearch.html?CareerType)
5. Thomson ISI Citations and Publications: The U.S. University Science Indicators Citations database provides an annually updated measure of both research volume and quality.
9. IPEDS: Undergraduate programs will be assessed to determine that the institution is meeting its commitment to undergraduate education. Recognizing that differing institutional missions among research universities dictate different ways of providing undergraduate education, the membership committee will be flexible in this assessment. A number of measures have been suggested, including some that focus on input and others that look primarily at output variables.
## AAU Membership Indicators Normalized (when appropriate) by Number of Faculty

### University of California, Riverside compared to Georgia Institute of Technology

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9. IPEDS Human Resources Survey. Used to normalize indicators. IPEDS Salary Survey counting only tenure and tenure track faculty.
Council of Advisors Meeting Agenda

May 21, 2010

8:00 am – 9:00 am  Breakfast .................................................................................. EBU II 232

9:00 am – 9:15 am  Welcome & Introductions......................................................... EBU II 205
Gordon Bourns, Chairman, Council of Advisors

9:15 am – 10:00 am  Dean’s Overview....................................................................... EBU II 205
Highlights................................................................................................................. EBU II 205

10:00 am – 10:15 am  Tuning the Properties of Materials through Nanostructure: Fabrication of Large Sized Nanocomposites for Optical Devices
Javier Garay, Associate Professor, Mechanical Engineering

10:20 am – 10:35 am  High Performance Nano Gas Sensor Arrays
Nosang Myung, Associate Professor, Chemical & Environmental Engineering

10:40 am – 10:55 am  From Nature to Engineering: Biologically Inspired Materials Science
David Kisailus, Assistant Professor, Chemical & Environmental Engineering

11:00 am – 11:30 am  Matthew Barth, Director, SC-Rise

BREAK

11:45 am – Noon  Undergraduate Outreach
Chinya Ravishankar, Associate Dean, Undergraduate Education &
Jun Wang, Professional Development Officer

12:05 pm – 12:25 pm  Undergraduate Research
Chinya Ravishankar, Associate Dean, Undergraduate Education &
Jun Wang, Professional Development Officer

12:30 pm – 2:00 pm  Lunch with Department Chairs and Center Directors..................... EBU II 232
Remarks & Session with Chancellor (Chancellor to arrive at 1:15 p.m.)

2:00 pm – 2:20 pm  Wind Turbine Demonstration....................................................... EBUII Patio

2:25 pm – 2:45 pm  Development Highlights............................................................. EBU II 205
Peter Hayashida, Vice Chancellor of Advancement

BREAK

3:00 pm - 3:45 pm  Executive Session (Council Members Only)............................... EBU II 205

3:45 pm - 4:30 pm  Closing meeting with Dean Reza Abbaschian............................ EBU II 205

4:30 pm  Reception with faculty ................................................................................. EBU II 232

6:00 pm  Dinner (optional)............................................................................................ Ciao Bella
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Welcome
Jay Farrell, Chair, BCOE Executive Committee
Reza Abbaschian, Dean

Faculty Action Items
Jay Farrell, Chair
BCOE Executive Committee

Undergraduate Program
Chinya Ravishankar, Assoc. Dean
Undergraduate Student Affairs

Graduate Program
Mark Matsumoto, Assoc. Dean
Graduate Student Affairs & Research

State of the College Presentation
Reza Abbaschian, Dean

General Discussions, Questions & Answers

Reception to follow after to honor
Shankar Mahalingam - Farewell
Thomas Payne – Retirement
Teodor Przymusinski - Retirement
Announcement of Chairs for 2010-11

(reception to be held in EBUII 232)