

## **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 26<sup>th</sup> 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 EBUII 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 21<sup>st</sup>). 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 4<sup>th</sup>. 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  
AAU Membership Indicators

University of California, Riverside compared to Georgia Institute of Technology

AAU Membership Indicator	Academic/Fiscal Year										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Phase I Indicators											
1. Competitively funded federal research support (in thousands of \$) <sup>1</sup>											
Georgia Institute of Technology	\$112,651	\$126,164	\$143,836	\$165,680	\$203,582	\$237,483	\$245,130	\$257,751	\$260,230	\$281,184	
University of California, Riverside	\$19,954	\$21,085	\$25,713	\$32,305	\$40,409	\$40,981	\$52,919	\$58,023	\$56,129	\$53,780	
2. Memberships in the National Academies <sup>2</sup>											
Georgia Institute of Technology				26	27	30	26	28	30	40	40
University of California, Riverside				4	3	3	4	4	4	9	11
3. National Research Council faculty quality ratings <sup>3</sup>											
Georgia Institute of Technology											
University of California, Riverside											
4. Faculty arts and humanities awards, fellowships, and memberships <sup>4</sup>											
Georgia Institute of Technology				21	20	21	13	12	16		
University of California, Riverside				4	9	12	7	4	8		
5. Citations <sup>5</sup>											
Georgia Institute of Technology	27,950	26,302	34,296	36,393	35,656	37,292	32,928	26,751	19,237	10,297	2,826
University of California, Riverside	17,192	22,728	23,926	24,856	23,975	22,976	21,852	17,850	13,742	7,771	2,447
Phase II Indicators											
6. USDA, state, and industrial research funding (in thousands of \$) <sup>6</sup>											
Georgia Institute of Technology	\$76,768	\$79,630	\$70,645	\$66,031	\$41,068	\$40,180	\$44,259	\$49,602	\$59,512	\$71,109	\$0
University of California, Riverside	\$12,110	\$9,687	\$11,837	\$15,194	\$14,713	\$13,342	\$14,034	\$11,008	\$12,372	\$14,933	\$18,046
7. Doctoral Education <sup>7</sup>											
Georgia Institute of Technology	230	255	255	257	225	311	353	400	459	467	490
University of California, Riverside	115	94	94	116	121	141	159	165	177	224	188
8. Number of postdoctoral appointments <sup>8</sup>											
Georgia Institute of Technology	98	64	64	34	31	31	197	208	187		
University of California, Riverside	190	224	224	235	222	251	242	220	216		
9. Undergraduate Education (Six Year Graduation Rates) <sup>9</sup>											
Georgia Institute of Technology	63.1%	63.9%	67.6%	67.8%	69.3%	71.9%	76.1%	77.0%	77.7%	77.2%	
University of California, Riverside	66.0%	64.1%	63.5%	66.2%	64.2%	64.4%	65.3%	63.6%	65.9%	64.3%	
Other Needed Data											
10. Faculty Counts <sup>10</sup>											
Georgia Institute of Technology		853		853	832	833	848	867	882	907	930
University of California, Riverside		579		579	562	586	586	594	625	663	665

Source: AAU Membership Policy <<http://www.aau.edu/WorkArea/DetailLink.aspx?LinkIdentifier=0&ItemID=1110>>.

- Notes: 1. National Science Foundation: NSF research expenditure data, that includes federally funded agricultural expenditures.  
2. The National Academies' membership database for 2008 and 2009. "The Center for Measuring University Performance" <[http://mup.asu.edu/research\\_data.html](http://mup.asu.edu/research_data.html)> for 2002 through 2007.  
3. 1995 NRC report 1995: No data provided as 1995 ratings are out of date and the 2008 study still has not been released.  
4. Obtained from "The Center for Measuring University Performance" <[http://mup.asu.edu/research\\_data.html](http://mup.asu.edu/research_data.html)>. For a list of included faculty awards, go to <<http://mup.asu.edu/sourcenotes2005.html#faculty>>.  
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.  
6. National Science Foundation <<http://webcaspar.nsf.gov/>> through 2008 for expenditures and through 2007 for USDA obligations. Subsequent years, UCR Research Office  
7. National Science Foundation <<http://webcaspar.nsf.gov/>> IPEDS Completion Survey Degrees Awards Conferred, 2002 through 2008. University Web Sites  
8. National Science Foundation <[http://www.rip.gatech.edu/ripfactbook/2005\\_Fact\\_Book.pdf](http://www.rip.gatech.edu/ripfactbook/2005_Fact_Book.pdf)> and <[http://sara.ucr.edu/degrees/2008\\_09/degree.html](http://sara.ucr.edu/degrees/2008_09/degree.html)> for 2008 and 2009.  
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.  
10. IPEDS Human Resources Survey, 2002 through 2008. UCR campus estimate for 2009. Georgia Tech for 2009 from <[http://www.rip.gatech.edu/ripfactbook/2009\\_Fact\\_Book.pdf](http://www.rip.gatech.edu/ripfactbook/2009_Fact_Book.pdf)> page 55.

University of California, Riverside  
AAU Membership Indicators Normalized (when appropriate) by Number of Faculty  
University of California, Riverside compared to Georgia Institute of Technology

AAU Membership Indicators		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Phase I Indicators												
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Georgia Institute of Technology												
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Source: AAU Membership Policy <<http://www.aau.edu/WorkArea/area.aspx?LinkIdentifier=id&ItemID=1110>>

Notes: 1. National Science Foundation: NSF research expenditure data, that includes federally funded agricultural expenditures.

2. The National Academies' membership database for 2008 and 2009. \*The Center for Measuring University Performance\* <[http://mup.asu.edu/research\\_data.html](http://mup.asu.edu/research_data.html)> for 2002 through 2007.

3. 1995 NRC report 1995. No data provided as 1995 ratings are out of date and the 2006 study still has not been released

4. Obtained from "The Center for Measuring University Performance" <[http://mup.asu.edu/research\\_data.html](http://mup.asu.edu/research_data.html)>. For a list of included faculty awards, go to <<http://mup.asu.edu/sourcenotes2005.html#faculty>>.

5. Thompson ISI Citations and Publications. The U.S. University Science Indicators citations database provides an annually updated measure of both research volume and quality.

6. 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 <[http://www.rip.gatech.edu/rip/factbook2009\\_Fact\\_Book.pdf](http://www.rip.gatech.edu/rip/factbook2009_Fact_Book.pdf)> and <[http://sara.uz.edu/degrees2008\\_09/degma.html](http://sara.uz.edu/degrees2008_09/degma.html)> for 2008 and 2009.

7. National Science Foundation <<http://webcaspar.nsf.gov/>>. IPEDS Completion Survey, Degrees Awards Conferred, 2002 through 2008. University Web sites <[http://www.rip.gatech.edu/rip/factbook2009\\_Fact\\_Book.pdf](http://www.rip.gatech.edu/rip/factbook2009_Fact_Book.pdf)> and <[http://sara.uz.edu/degrees2008\\_09/degma.html](http://sara.uz.edu/degrees2008_09/degma.html)> for 2008 and 2009.

8. National Science Foundation <<http://webcaspar.nsf.gov/>>. NSF-NIH Survey of Graduate Students & Postdoctorates in S&E, 1999 through 2007.

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.

10. IPEDS Human Resources Survey: Used to normalize indicators. IPEDS Salary Survey counting only tenure and tenure track faculty.



Bourns College of Engineering

## Council of Advisors Meeting Agenda

**May 21, 2010**

8:00 am – 9:00 am	Breakfast	EBUII 232
9:00 am – 9:15 am	Welcome & Introductions..... Gordon Bourns, Chairman, Council of Advisors	EBU II 205
9:15 am – 10:00 am	Dean's Overview.....	EBU II 205
10:00 am – 10:15 am	Highlights..... <i>Tuning the Properties of Materials through Nanostructure: Fabrication of Large Sized Nanocomposites for Optical Devices</i> Javier Garay, Associate Professor, Mechanical Engineering	EBU II 205
10:20 am – 10:35 am	<i>High Performance Nano Gas Sensor Arrays</i> Nosang Myung, Associate Professor, Chemical & Environmental Engineering	
10:40 am – 10:55 am	<i>From Nature to Engineering: Biologically Inspired Materials Science</i> David Kisailus, Assistant Professor, Chemical & Environmental Engineering	
11:00 am – 11:30 am	Matthew Barth, Director, SC-Rise	
	<b>BREAK</b>	
11:45 am – Noon	<i>Undergraduate Outreach</i> Chinya Ravishankar, Associate Dean, Undergraduate Education & Jun Wang, Professional Development Officer	
12:05 pm – 12:25 pm	<i>Undergraduate Research</i> Chinya Ravishankar, Associate Dean, Undergraduate Education & Jun Wang, Professional Development Officer	
12:30 pm – 2:00 pm	Lunch with Department Chairs and Center Directors..... Remarks & Session with Chancellor (Chancellor to arrive at 1:15 p.m.)	EBU II 232
2:00 pm – 2:20 pm	Wind Turbine Demonstration.....	EBUII Patio
2:25 pm – 2:45 pm	Development Highlights..... Peter Hayashida, Vice Chancellor of Advancement	EBU II 205
	<b>BREAK</b>	
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

MAJOR	APPLIED				ADMITTED				ACCEPTED			
	2009	2010	DIFF	DIFF.	2009	2010	DIFF	% DIFF.	200	201	DIF	DIFF.
Bioengineering	555	999	444	80.0%	498	1,120	622	124.9%	84	179	95	113.1%
Bioengineering BS+MS	0	249	249	n/a	0	59	59	n/a	0	2	2	n/a
Bus. Informatics	79	102	23	29.1%	51	72	21	41.2%	15	21	6	40.0%
Chemical Egr	346	585	239	69.1%	364	572	208	57.1%	58	84	26	44.8%
Chem. Egr. BS+MS	100	113	13	13.0%	19	22	3	15.8%	2	4	2	100.0%
Computer Egr	586	640	54	9.2%	457	463	6	1.3%	88	127	39	44.3%
Computer Science	515	556	41	8.0%	522	548	26	5.0%	93	119	26	28.0%
Comp. Sci BS+MS	245	265	20	8.2%	40	34	-6	-15.0%	1	2	1	100.0%
Electrical Egr	575	658	83	14.4%	462	671	209	45.2%	72	104	32	44.4%
Electrical Egr BS+MS	0	183	183	n/a	0	21	21	n/a	0	4	4	n/a
Engineering Other	0	0	0	n/a	0	0	0	n/a	0	0	0	n/a
Engineering (Prep)	0	0	0	n/a	0	0	0	n/a	0	0	0	n/a
Environmental Egr	192	210	18	9.4%	236	242	6	2.5%	59	74	15	25.4%
Enviro. Egr. BS+MS	113	144	31	27.4%	17	19	2	11.8%	3	3	0	0.0%
Information Sys	0	0	0	n/a	0	0	0	n/a	0	0	0	n/a
Limited	1	1	0	0.0%	0	1	1	n/a	0	0	0	n/a
Materials Sci & Eng	326	312	-14	-4.3%	316	299	-17	-5.4%	22	25	3	13.6%
Mechanical Egr	899	1,027	128	14.2%	986	1,101	115	11.7%	152	204	52	34.2%
Mech. Egr. BS+MS	344	404	60	17.4%	37	40	3	8.1%	5	5	0	0.0%
<b>TOTAL</b>	<b>4,876</b>	<b>6,448</b>	<b>1572</b>	<b>32.2%</b>	<b>4,005</b>	<b>5,284</b>	<b>1279</b>	<b>31.9%</b>	<b>654</b>	<b>957</b>	<b>303</b>	<b>46.3%</b>





## Bourns College of Engineering

### College Meeting – AGENDA

June 4, 2010 – 3 p.m.

EBUII 205/206

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)