

Chairs' & Center Directors' Meeting Minutes

Date: February 21, 2014 (12:00 to 2:00 pm)
Location: WCH – Room 443
Attendees: Abbaschian, Reza
Bhuyan, Laxmi
Boretz, Mitch
Farrell, Jay
Garay, Javier
Hartney, Pat
Matsumoto, Mark
Najjar, Walid
Rao, Masa (for Guillermo Aguilar)
Ravi
Rodgers, Victor
Vafai, Kambiz
Wang, Albert

Absent: Aguilar, Guillermo
Balandin, Alex
Barth, Matt
Bhanu, Bir
Haddon, Robert
Myung, Nosang
Tan, Sheldon

The agenda for the meeting is shown in Appendix 1.

1. Welcome and call for agenda items - Reza

No items were added to the agenda.

2. Approval of Minutes - Pat

The revised minutes of the January 27th Chairs/Directors meeting were unanimously approved.

3. NSF Graduate Fellowships – Mitch

Mitch presented the following two topics:

NSF Graduate Fellowships

Mitch stated that all BCOE incoming AY 14/15 grad students should start working on their NSF graduate fellowship applications early. The number of NSF graduate fellowship applications is increasing each year at UCR. Bioengineering requires their grad students to take a course that concludes with the preparation of fellowship applications. Mitch suggested that letters be sent out to all incoming grad students in Spring noting the November NSF deadline for applications and recommending that they prepare their personal statements in spring/summer so that there will be enough time to finish their applications before November. Mitch won't be able to help every student with his/her application in the Fall if they all need significant help at the same time. The goal is to have all personal statements completed by the start of Fall quarter. As such, Mitch will need input for the letters from Chairs by early April. The deadline for grad student acceptances is April 15th. Each

department should designate 1-3 faculty members to help these grad students with their applications over the summer. Also, it was noted that BCOE students in their senior year can submit applications (which might result in their staying at UCR). Additionally, second year graduate students can revise their first year applications and submit again. Mitch indicated that he will check with the Graduate Division on the extent to which UCR's Graduate Writing Center can help with writing and editing during the summer.

NSF Broader Impacts

Mitch distributed a document entitled "Merit Review Criterion: Broader Impacts and NSB Recommendation" which Reza obtained at a recent meeting of engineering deans. NSF requires research proposals to include a section detailing the project's broader (societal) impacts. One National Science Board (NSB) recommendation on this requirement states "NSF should encourage institutions to pursue such cooperative possibilities, which have the dual benefit of retaining the contributions of individual investigators while addressing national goals and yielding benefits broader than those within a given project." It was noted that BCOE should leverage existing UCR programs and funding. Mitch suggested that BCOE and CNAS have a repository of possible appropriate activities. Ravi added that summer workshops for teachers and students could include contributions from PIs and thus could be one such activity. This activity would be similar to the SPIRIT workshops that last 1-2 weeks in summer. After discussion, it was recommended that Mitch work with Ravi to develop options for meeting this requirement.

4. Faculty Recruitment Updates - Chairs

BIEN: Victor stated that Bioengineering is not searching for new faculty this year but is participating in searches by other departments. Bioengineering is working on developing joint efforts including projects with hospitals in Moreno Valley. Lastly, the Science Olympiad starts tomorrow and will include around 1,100 visitors. About 150 UCR students are expected to participate in this year's Science Olympiad.

ME: Masa stated that there are five candidates for each of the department's two faculty lines. The department is interviewing several candidates each week and expects to finish by March 3rd. Offers are expected to be sent out by mid-March.

EE: Jay stated there was no update for EE's faculty searches. The department is meeting with BK Instruments on joint efforts.

CS: Laxmi reported that a second faculty candidate is being interviewed today. A senior candidate was interviewed last week. Also, Prof. Brisk was selected for an NSF Career Award.

CEN: Walid reported that a senior candidate is being interviewed today.

UC Light: Albert noted that a proposal was recently completed. He stated that the UC Light Program could use an additional researcher in communications. He has not yet received comments for the declined ERC proposal. Reza noted that only 18 ERC pre-proposals were selected from the 200 submitted this year. NSF expects to make three awards from these 18 full proposals.

MSOL: Kambiz contacted three organizations that provide marketing and recruitment services for on-line degree programs. The one organization that we may be able to work with is Pearson-Embanet. Kambiz and Pat will be meeting with a representative from this company on 2/26. Pearson-Embanet has partnerships with several academic institutions including USC, the University of Arizona and University of Florida. Also, Bourns A265 has been outfitted with the second Echo 360 unit and can be used to record lectures, seminars, etc.

MSE: Javier noted that Prof. Mangolini was selected for an NSF Career Award and that interviews for the joint MSE/CEN SAO position are scheduled to begin next week.

5. Graduate Education – Mark

Mark noted the latest summary of BCOE graduate student applications, admits and accepts by BCOE Program attached to the agenda. He noted that there are 77 offers out to domestic applicants and another 90+ offers in the queue. There are five accepts so far. The total number of applications has increased but the number of domestic applications has remained level. On a second topic, he stated that the University of Michigan (UM) initiated a pilot program to exchange names of juniors and seniors that are interested in grad schools. UM wants to increase the number of institutions participating in this program to 150. Participation involves exchange of student names, GPAs, Visa status, demographics, majors of interest, etc. UM is asking for \$1-3K from each institution to support this program. After discussion, it was recommended that BCOE try this program for one year.

6. Undergraduate Education - Ravi

Ravi noted the attachment to the agenda that presents net incoming freshmen yield figures by BCOE program and AIS cutoff. Ravi proposed that EE increase its AIS cutoff from 4050 to 4200 and then look at applicants that listed EE as a second choice in order to reach its target. Jay responded that he will work with Ravi to make sure that EE hits its target of 60 incoming freshmen. Although not listed, it was noted that MSE's AIS cutoff is 4050. It was recommended that MSE's AIS initial cutoff be increased to 4200. A second attachment presents a graph of the BCOE Fall 12 cohort's percentage of students with college GPAs of at least 2.5 along with a graph of Average Cumulative GPA by AIS bands. It is clear from these graphs that AIS scores make significant differences in college GPAs.

7. Center Updates

Center updates are included in topic 4 above.

8. Funding Allocations – Pat

Pat distributed handouts presenting the following three funding allocations to BCOE departments:

Summer Instructional Workload Allocations

UCR increased its support for summer session faculty FTE which results in an additional \$28,350 allocation to BCOE. This handout lists the additional allocations to CEE, CSE, EE and ME. These funds will be distributed to departments next week.

Nonsupported Incoming MS Students

Starting this AY, the Grad Division is allocating one-half of non-resident fees for international MS students to BCOE. The BCOE Dean's Office takes 10% of these funds and allocates an additional 10% into a common TA funding pool. The remaining 80% of these funds are allocated to BCOE departments according to the numbers of nonsupported MS students enrolled in those departments.

Graduate Preparation Program in Engineering (GPP-E)

This joint program between BCOE and UNEX provides funding to departments that are offering courses to Chinese student participants. Each student pays \$25,000. UNEX keeps \$6,900 and transfers the remaining funds to BCOE. The Dean's Office share is \$6,033/student for coordination and marketing efforts. The department receives \$12,067/student. The total amount allocated to CEE, CSE, ME and EE for this first year is \$104,581.



Chairs' & Center Directors' Meeting

February 21, 2014

Agenda

Winston Chung Hall – Room 443

- | | | |
|----|---|-----------|
| 1. | Welcome - Request for Agenda Items from the Floor | Reza |
| 2. | Approval of Minutes from January 27, 2014 Meeting | Pat |
| 3. | NSF Graduate Fellowships | Mitch |
| 4. | Faculty Recruitment Updates | Chairs |
| 5. | Graduate Education | Mark |
| 6. | Undergraduate Education | Ravi |
| 7. | Center Updates | Directors |
| 8. | Funding Allocations | Pat |
| 9. | Other Matters | |

Future Meeting Dates

2013

~~Monday, August 5~~
~~Monday, September 9~~
~~Friday, September 27~~
~~Friday, October 11~~
~~Monday, October 21~~
~~Friday, November 15~~
~~Monday, December 2~~
~~Monday, December 16~~

2014

~~Friday, January 10~~
~~Monday, January 27~~
~~Monday, February 10~~
~~Friday, February 21~~
 Monday, March 3
 Monday, March 17
 Monday, March 31
 Monday, April 14
 Monday, April 28
 Monday, May 12
 Friday, May 30
 Monday, June 9
 Monday, June 23
 Monday, July 7

Merit Review Criterion: *Broader Impacts*

The Broader Impacts criterion encompasses the potential to benefit society and contribute to achieving specific, desired societal outcomes, including:

- increased participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM);
- improved STEM education at all levels;
- increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society;
- development of a globally competitive STEM workforce;
- increased partnerships between academia, industry, and others;
- increased national security;
- increased economic competitiveness of the United States;
- and enhanced infrastructure for research and education.

NSB Report MR-11/22 - National Science Foundation's
Merit Review Criteria: Review and Revisions

5

February 20, 2014



NSB Recommendation

- "Just as institutions play an important role in facilitating research-related activities of their investigators, often in ways that align with strategic departmental and institutional (and possibly state-wide, regional, or national) priorities and investments, such a role can extend to activities directed toward the broader impacts of the project as well."
- "... such efforts might be more effective if coordinated appropriately in ways that leverage particular institutional assets or strategic directions and even link investigators from multiple projects."
- *NSF should encourage institutions to pursue such cooperative possibilities, which have the dual benefit of retaining the contributions of individual investigators while addressing national goals and yielding benefits broader than those within a given project.*
- *How can engineering colleges and departments respond to this opportunity?*

6

February 20, 2014



2014-15 BCOE GRADUATE RECRUITMENT TARGETS

Dept	M.S.	Ph.D.	Total	Accepts	% of Target
BIEN	12	12	24	1	4.2%
CEE	7	14	21	2	9.5%
CEN	10		10	0	0.0%
CPSC	25	25	50	0	0.0%
ELEN	25	25	50	0	0.0%
MSOL					
MSE	10	12	22	0	0.0%
ME	13	11	24	2	8.3%
Subtotal	102	99	201	5	2.5%

2014-15 CAMPUS TARGETS

College	Total	To Date	% of Target
BCOE	201	5	2.5%
CHASS	188	13	6.9%
CNAS	208	12	5.8%
DBS	7	1	14.3%
SOBA	198	7	3.5%
GSOE	77	5	6.5%
Subtotal	879	38	4.3%

Graduate Division Data as of February 20, 2014

International Students									
Program	Apps			Admits			Accepts		
	2012	2013	2014	2012	2013	2014	2012	2013	2014
BIEN	32	50	64	0	5	1	0	2	0
CEE	130	150	137	2	28	3	0	8	0
CEN	NA	33	58	NA	0	0	NA	0	0
CS	499	614	668	0	15	0	0	2	0
EE	551	577	549	0	11	0	0	1	0
MSE	83	106	118	0	0	0	0	0	0
ME	104	112	125	0	2	1	0	0	0
Total	1399	1642	1719	2	61	5	0	13	0

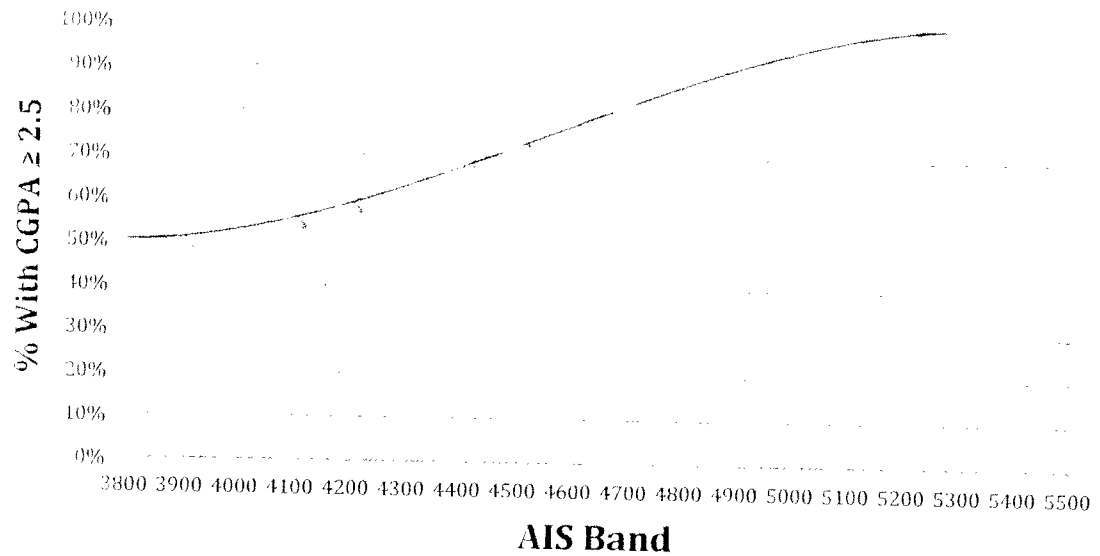
Domestic Students									
Program	Apps			Admits			Accepts		
	2012	2013	2014	2012	2013	2014	2012	2013	2014
BIEN	57	81	73	7	22	17	1	1	1
CEE	56	58	62	24	30	32	0	3	2
CEN	NA	6	5	NA	0	0	NA	0	0
CS	88	71	71	0	10	0	0	2	0
EE	41	57	47	2	8	0	1	0	0
MSE	19	30	27	0	11	6	0	1	0
ME	33	36	53	2	21	17	0	0	2
Total	294	339	338	35	102	72	2	7	5

Total Students									
Program	Apps			Admits			Accepts		
	2012	2013	2014	2012	2013	2014	2012	2013	2014
BIEN	89	131	137	7	27	18	1	3	1
CEE	186	208	199	26	58	35	0	11	2
CEN	NA	39	63	NA	0	0	NA	0	0
CS	587	685	739	0	25	0	0	4	0
EE	592	634	596	2	19	0	1	1	0
MSE	102	136	145	0	11	6	0	1	0
ME	137	148	178	2	23	18	0	0	2
Total	1693	1981	2057	37	163	77	2	20	5

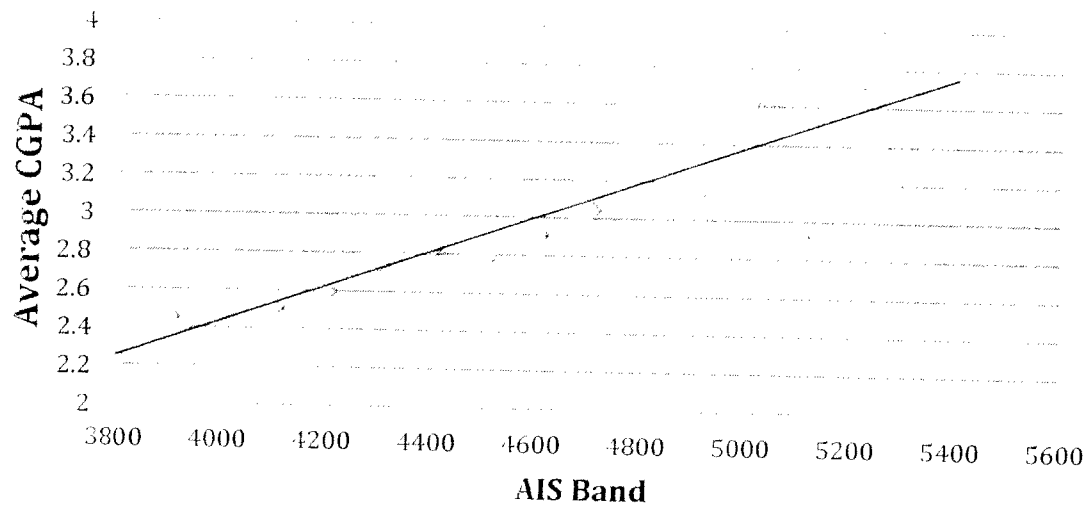
Unit	Apps		Admits		Accepts		One Year Percent Change		
	2013	2014	2013	2014	2013	2014	Apps	Admits	Accepts
BCOE	1981	2057	163	77	20	5	3.8%	-52.8%	-75.0%
CHASS	1065	1170	145	134	14	13	9.9%	-7.6%	-7.1%
CNAS	1360	1473	167	220	14	12	8.3%	31.7%	-14.3%
DBS	65	64	9	9	0	1	-1.5%	0.0%	#DIV/0!
AGSM	325	431	76	79	15	7	32.6%	3.9%	-53.3%
GSOE	116	148	32	34	13	5	27.6%	6.3%	-61.5%
Total	4912	5343	592	553	76	43	8.8%	-6.6%	-43.4%

	Proposed	AIS Cutoff	Net Yield	Admit
Bioengr	45	>4400	45	394
Bus. Inform.	10	>4000	11	57
Chem Engr	35	>4300	39	233
Comp Engr	50	>4250	55	376
Comp Sci	60	>4400	66	610
Elect. Engr	60	>4050	62	284
Env. Engr	35	>4200	36	144
Mech Engr	80	>4250	84	587
MSE	25	#N/A	#N/A	#N/A
BCOE	400		398	2685

% Students With CGPA \geq 2.5, F'12 Cohort



Avg. Cumulative GPA, F'12 Cohort



Summer Instructional Workload Allocations Summer 2013

	% of Allocation	Original Allocation	Additional Allocation	Total Allocation
Bioengineering				
Chemical & Environmental	3.02%	1,233	685	1,918
Computer Science	63.73%	26,017	14,454	40,471
Electrical Engineering	22.29%	9,100	5,055	14,155
Mechanical Engineering	10.96%	4,474	2,486	6,960
Dean's Office (@20% off top)		10,206	5,670	15,876
Total	100.00%	51,030	28,350	79,380

Fall 2013 BCOE Nonsupported Incoming MS Students

Program	Degree Objective	Last Name	First Name	Application ID	NRG Generated	Total BCOE Share	Dean's Office Share	Collective TA Funds Share	Department Share
YES Bioengineering	MS	Wang	Junchao	100053660	5,034	2,517	252	252	2,014
Subtotal BIEN							252	252	2,014
YES Computer Engineering	MS	Agarwal	Kajal	100063285	5,034	2,517	252	252	2,014
YES Computer Engineering	MS	Li	Shuheng	100060075	5,034	2,517	252	252	2,014
YES Computer Engineering	MS	Ponnadi	Prashanth	100065471	5,034	2,517	252	252	2,014
YES Computer Engineering	MS	Ren	Ping	100058670	5,034	2,517	252	252	2,014
Subtotal CE							1,007	1,007	8,054
YES Computer Science	MS	Guo	Zichen	100060315	5,034	2,517	252	252	2,014
YES Computer Science	MS	Khire	Priyanka	100058792	5,034	2,517	252	252	2,014
YES Computer Science	MS	Lawania	Ambuj	100058710	5,034	2,517	252	252	2,014
YES Computer Science	MS	Menon	Abhinand	100061362	5,034	2,517	252	252	2,014
YES Computer Science	MS	Morarka	Mohit	100060425	5,034	2,517	252	252	2,014
YES Computer Science	MS	Shetty	Prajna	100065638	5,034	2,517	252	252	2,014
YES Computer Science	MS	Syam	Piali	100054009	5,034	2,517	252	252	2,014
YES Computer Science	MS	Umananth	Tejas	100058377	5,034	2,517	252	252	2,014
YES Computer Science	MS	Wu	Bin	100054216	5,034	2,517	252	252	2,014
YES Computer Science	MS	Yu	Fuxin	100063579	5,034	2,517	252	252	2,014
YES Computer Science	MS	Zhang	Keli	100053420	5,034	2,517	252	252	2,014
Subtotal CS							2,769	2,769	22,150
YES Electrical Engineering	MS	Chou	Chin-Sheng	100056747	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Li	Siyu	100057298	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Li	Xiaochen	100060982	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Li	Ye	100058804	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Liu	Jiarui	100063688	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Mauskar	Chaitanya	100064951	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Xue	Yun	100062981	5,034	2,517	252	252	2,014
YES Electrical Engineering	MS	Zhu	Qiping	100060914	5,034	2,517	252	252	2,014
Subtotal EE							2,014	2,014	16,109
YES Mechanical Engineering	MS	Leosirikul	Akradit	100062786	5,034	2,517	252	252	2,014
YES Mechanical Engineering	MS	Yuan	Xing	100055393	5,034	2,517	252	252	2,014
Subtotal ME							503	503	4,027
BCOE Total							6,544	6,544	52,354

UCR-Graduate Preparation Program in Engineering (GPP-E)

Extension International Education Programs (IEP) will facilitate the enrollment of Chinese students from various Chinese universities (the list of institutions and the number of students from each institution based on the capacity of BCOE and UNEX and mutually agreed upon each year by BCOE and UNEX) into a special program called the **UCR-Graduate Preparation Program in Engineering (GPP-E)**. The responsibilities of BCOE departments participating in the GPP-E Program are:

- Assess student transcripts and approve students to be enrolled in the program
- Guarantee upper level courses and/or graduate level courses (12 credits per quarter) for enrollment
- Determine the matrix of courses each quarter
- Deliver courses
- Provide campus allocated classroom space
- Provide all instruction
- Ensure that students meet their Chinese graduation requirements, including supervising their final graduation project
- Provide information, advising and application details for BCOE graduate programs

Each Chinese student enrolled in this special program will pay \$25,000 tuition (for one academic year) plus application and other student services fees. Full fees will be paid to IEP and distributed as follows:

- \$6,033 to BCOE Dean's Office for coordination of GPP-E Program with IEP including joint marketing efforts.
- \$12,067 to BCOE department hosting Chinese student.
- \$ 6,900 (plus all application, student services and medical fees) to IEP.
- Note: In the event of a drop within UCR policy, a charge back to BCOE will be processed for fees already transferred.)

**BCOE - UNEX GPP-E Program
AY 13/14**

Department	Student Name	Allocation (@ \$12,067 for 3 quarters)
Chemical & Environmental	Dong, Hongxu	12,067
	Zhu, Xiaobo	12,067
CEE Total		24,134
Computer Science:	Liu, Shijun	12,067
Mechanical Engineering:	Jiang, Yuanjie	12,067
	Lei, Fuyue	12,067
	Liu, Chang	12,067
ME Total		36,201
Electrical Engineering	Cao, Ququ	12,067
	Chen, Tianxiang	12,067
	Xiao, Mingming*	3,045
EE Total		32,179
Total Department Allocations		104,581

* two quarters only