Chairs’ Meeting Minutes

Date: November 3, 2017
Location: WCH – Room 443
Attendees:
Marek Chrobak
Ilya Dumer
Jay Farrell
Patrick Hartney
Suveen Mathaudhu (for Guillermo Aguilar)
Larry Morgan
Ashok Mulchandani
Walid Najjar
Hyle Park (for Xiaoping Hu)
Chinya Ravishankar
Brian Suh
Kambiz Vafai
Sharon Walker
Gillian Wilson
Charlie Wyman

Absent:
Guillermo Aguilar
Xiaoping Hu
Marko Princevac
Jun Wang

1. Welcome – Sharon
Sharon announced that Prof. Gillian Wilson, along with Larry Morgan and Brian Suh will be attending the meeting at 1pm to discuss UCR’s I-Corp grant and the Office of Technology Partnerships.

2. Approval of Minutes from October 16, 2017 meeting – Sharon
The minutes of the October 16, 2017 meeting were unanimously approved.

3. MS On-line - Kambiz
Kambiz distributed a handout that summarized MSOL student (incoming and current) GPA, average GRE scores and the number of students per Specialization. He noted that there are 101 MSOL students this Fall. A second handout presented the total MSOL FY 16/17 tuition income and program expenses by Specialization. MSOL generated $288K of gross income last year. 10% of this income will be allocated to the Dean’s Office; 10% will be allocated to BCOE’s TA pool and the remaining 80% will be distributed to the Specializations (based on each Specialization’s share of total income). The financial benefits to Specializations totaled to $445K, including instructional incentives to faculty ($120K), TA support ($108K) and distribution of net income ($216K). MSOL’s net income will be distributed to departments by the Dean’s Office next week. Kambiz also announced that the MSOL Data Science
Specialization is now approved for tuition reimbursement for employees at Qualcomm. Additionally, Kambiz distributed summaries of MSOL Student Profile, Program Accomplishments and details of Student Population (students/Specialization and location). Kambiz indicated that representatives of Pearson will be at UCR for their quarterly meeting on 12/1. Chairs are welcome to meet with these Pearson reps. Lastly, Kambiz wants to market MSOL internationally outside the current Pearson agreement. Sharon asked to receive more details on this plan since she is concerned about possible impacts of this additional workload on BCOE staff.

4. **Undergraduate Education - Marko**
Marko was unavailable for this meeting but he sent copies of the attached Undergraduate Education presentation to Chairs yesterday.

5. **Budget Update – Pat**
Pat called attention to the three graphs attached to the agenda. The first graph presents BCOE’s Carryforward history from FY08 to FY17 and includes separate lines for Carryforward funds (i.e., cash on hand), net deficit with current IC commitments and net deficit with all commitments. Pat commented that this graphs shows that BCOE’s net deficit has been decreasing slightly over the past several years (including last year) and that the primary component of this deficit is IC commitments to faculty hires. BCOE has enough annual funding to cover projected annual IC expenses. The second graph presents BCOE’s University Funding history for faculty salary/benefits, department operations, Dean’s Office, Student Affairs and Initial Complement expenses from FY14 to FY17. This graph shows that most BCOE funding goes to its faculty and that funding to departments has grown over the past four years as compared to the Dean’s Office and Student Affairs. The third chart presents this same data by percentage and again shows that most BCOE funding goes to faculty salary/benefits and that this percentage has increased over the last four years. Percent funding distributions to departments, Dean’s Office and Student Affairs has remained relatively flat.
Next, Pat noted the MSNRT Distribution of Income page attached to the agenda. Prior to the implementation of UCR’s new budget model, the Dean’s Office distributed 80% of the MSNRT it received from campus to departments. Under UCR’s new budget model, BCOE receives a greater percentage of MSNRT funding but is also charged about $3,800 per grad student FTE in indirect costs. As such, the net amount available for distribution to departments will be less. The Dean’s Office has asked for MS student data from BCOE FAOs so that it can determine the distribution of this net MSNRT to programs. Pat expects this analysis to be completed within the next three months. Pat commented that the Dean’s Office is using the same allocation methods for all other university funding to departments/programs as before. The reasons for this continuity are that UCR’s new budget model has had little impact on BCOE’s funding so far. This will likely change in future years, particularly if/when UCR modifies this model as expected. Also, a permanent BCOE Dean will likely want to be given an opportunity to determine what changes, if any, need to be made to allocation methodologies.
In response to a question about the financial incentive to offer specific (service) courses, Pat indicated that Activity Based Costing (ABC) was supposed to provide this information but UCR has not had time to fully implement this tool. Pat will try to develop a BCOE model to
present this information but this won’t be available until after UCPath implementation. Lastly, Pat mentioned that campus Service Level Agreements (SLAs) are approved by UCR’s SLA Governance Committee. BCOE doesn’t have a representative on this Committee at this time. It’s unclear in some of these SLAs what services are being provided for free and what services need to be funded by departments/orgs. It will take time for the Governance Committee to work out these details.

6. Opportunities offered by the recent NSF I-Corp grant – Gillian Wilson
Prof. Gillian Wilson made the attached presentation at the meeting. Items discussed included:
- The Provost has initiated a biannual Teaming mini-grant program. The next proposals are due on 12/1/17. These $3K mini-grants are intended to support workshops, symposia, etc that will lead to collaborative grant proposals.
- RED wants to sustain/improve shared-use research facilities (such as CFAMM) and to discover new customers for these facilities. Gillian requested participants to send her names of other (local) institutions with shared-use facilities so that she can identify best practices.
- Larry Morgan (Director of UCR’s Entrepreneurial Proof of concept and Innovation Center) stated that UCR received a $500K NSF I-Corp grant. This grant is intended to provide in-house commercialization training to UCR faculty and students. UCR has 10 entrepreneurs in residence at UCR. These mentors have met with ~160 teams so far.
- The Highlander Fund has $10M for seed funding projects. Approved projects are expected to be funded at $100-250K per project.
- RED will be requesting Proof of Concept proposals (two times per year). RED expects to make $30-50K awards to about three teams per cycle.
- It was noted by participants that RED may need to add more staffing to enhance pre-IP efforts.
- Concerns about staffing or responsiveness in UCR’s Office of Technology Partnerships should be sent directly to AVC Rosibel Ochoa.
- Brian Suh (Director of Technology Commercialization) added that UCR held its inaugural patent award ceremony about two weeks ago.
- Lastly, Gillian is willing to make presentations at department faculty meetings.

7. Dean’s update – Sharon
Sharon noted the recent update on contract/grant funding from Mike Pazzani that she sent to Chairs. She noted that 9 of the top 35 UCR PIs are in BCOE and 2 of the top 3 departments are in BCOE.
Sharon stated that Executive Committee members need to be informed of Winter and Spring teaching assignments as soon as possible so that they can determine when they will be available for Executive Committee meetings.
Sharon indicated that UCPath will likely be implemented at UCR in January 2018. Several Dean’s Office staff are heavily involved in this effort and department/center staff will need to be trained over the next few weeks. Pat noted that UCPath’s direct impact on faculty will be minimal but more advance notice will be needed in order to hire students and staff.
Sharon distributed a card announcing the November 18th Homecoming events at BCOE. She asked that Chairs attend these events and encourage other faculty to be there.
Sharon distributed a draft BCOE Industry Partners Program brochure from Mike Allen. She asked that feedback be sent to her. It was recommended that memberships be free at least initially. It is believed that only three other UC Colleges of Engineering charge membership fees. It was also recommended that quotes from other corporate supporters be substituted for the ones from Gordon Bourns and Winston Chung since most readers would assume that these individuals would be highly supportive of BCOE. Other recommendations were to narrow down “600 areas of research” and to indicate that access to facilities and sophisticated equipment would not be free.

Sharon distributed her notes from the 10/23/17 CAP discussion with UCR Deans. She stressed that CAP advises that research outcomes are more of a priority than amounts of research funding. Also, there should be more reporting of teaching expertise including independent evaluation of teaching. Additionally, CAP wants to review all BCOE files at the same time. Lastly, it was advised that specific dollar figures not be included in files since these figures will need to be verified by CAP staff and will delay the review process. An alternative is to use “more than $xxx” instead of a specific figure.

8. **Staff Appreciation – Sharon**
   Sharon distributed flyers announcing this year’s BCOE Staff Appreciation event. This event is scheduled for December 8th from noon to 2pm in WCH 205/206. She asked Chairs to encourage faculty to attend this event.

9. **Department Updates – Chairs**
   Due to time constraints, this topic was delayed to the next meeting.

10. **Graduate Education - Ravi**
    Due to time constraints, this topic was delayed to the next meeting.

No other topics were discussed.
Chairs’ Meeting  
November 3, 2017

Agenda

Winston Chung Hall – Room 443

1. Welcome
   Sharon

2. Approval of Minutes from October 16, 2017 Meeting
   Pat

3. MS On-line
   Kambiz

4. Budget Update
   Pat

5. Graduate Education
   Ravi

6. Undergraduate Education
   Marko

7. Dean’s Updates
   Sharon

8. Staff Appreciation
   Sharon/Pat

9. Department Updates
   Chairs

10. Opportunities offered by the recent NSF I-Corp
    Prof. Gillian Wilson
<table>
<thead>
<tr>
<th>Upcoming Winter 18 Students</th>
<th>Active (current)</th>
<th>Graduates</th>
<th>Withdrawn</th>
<th>Total Students Overall</th>
<th>Average GPA Entry</th>
<th>Average Current GPA</th>
<th>Average GRE</th>
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<td>7</td>
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<td>313</td>
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<td>6</td>
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<td>3.9</td>
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<td><strong>28</strong></td>
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<td><strong>3.15</strong></td>
<td><strong>3.71666667</strong></td>
<td><strong>307.666667</strong></td>
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### Master's Online Tuition Income vs. Expenses for FY16/17 Fiscal Year

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<th>Expenses</th>
<th>Program O/H</th>
<th>Bioengr</th>
<th>Environ</th>
<th>Data Science</th>
<th>Electrical</th>
<th>Mechanical</th>
<th>Materials</th>
<th>Totals</th>
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<td>Tuition Income</td>
<td>827,169.00</td>
<td>89,964.00</td>
<td>204,085.00</td>
<td>117,786.20</td>
<td>77,459.00</td>
<td>347,777.50</td>
<td>78,302.00</td>
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<td>Chair/Grad Advisor Exp.</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>Lecturer*</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>28,675.29</td>
<td>21,264.34</td>
<td>15,578.05</td>
<td>12,586.57</td>
<td>16,719.72</td>
<td>108,096.15</td>
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<td>Video Technicians</td>
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<td>0.00</td>
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<td>94,550.05</td>
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<td>86,800.44</td>
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<td>Pearson's</td>
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<td>FWS Fee for K.Kozlar**</td>
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<td>0.00</td>
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<td>0.00</td>
<td>320.00</td>
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<td>General Supplies</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>3,791.91</td>
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<td>Net Balance &gt;</td>
<td>69,379.72</td>
<td>10,240.37</td>
<td>38,566.57</td>
<td>24,930.43</td>
<td>8,886.78</td>
<td>128,254.91</td>
<td>8,380.35</td>
<td>288,639.72</td>
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</table>

#### 10% TA Funding pool
- 6,937.97
- 1,024.04
- 3,856.66
- 2,493.04
- 888.68
- 12,825.49
- 838.09
- 28,863.97

#### 10% Dean's Office pool
- 6,937.97
- 1,024.04
- 3,856.66
- 2,493.04
- 888.68
- 12,825.49
- 838.09
- 28,863.97

#### Start-up loan payment***
- 3,475.74
- 513.02
- 1,932.08
- 1,248.95
- 445.20
- 5,425.23
- 419.86
- 14,460.08

#### Balance for distribution >
- 52,028.04
- 7,679.28
- 28,921.18
- 18,695.40
- 6,664.22
- 96,178.70
- 6,284.89
- 216,451.70

#### To be split

### Financial Impact to Dept.

<table>
<thead>
<tr>
<th>Expenses</th>
<th>Program O/H</th>
<th>Bioengr</th>
<th>Environ</th>
<th>Data Science</th>
<th>Electrical</th>
<th>Mechanical</th>
<th>Materials</th>
<th>Totals</th>
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<td>31,000.00</td>
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<td>TA Support</td>
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<td>16,719.72</td>
<td>108,096.15</td>
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<tr>
<td>Net Income</td>
<td>-</td>
<td>10,109.21</td>
<td>38,072.61</td>
<td>24,611.12</td>
<td>8,772.96</td>
<td>126,612.20</td>
<td>8,273.60</td>
<td>215,451.70</td>
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<tr>
<td></td>
<td>-</td>
<td>38,981.38</td>
<td>95,547.90</td>
<td>66,675.46</td>
<td>34,951.02</td>
<td>170,198.77</td>
<td>38,193.32</td>
<td>444,547.85</td>
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</table>

*Includes summer and academic year salaries, less tuition rec'd for grad students.

**Tuition discount for UCR Librarian

***Start-up cost = $115,580.63 and payment is amortized over 8 years to coincide with remaining Pearson agreement term.

****Tuition Income and expenses are for the fiscal year, which runs July 1, 2016 - June 30, 2017.
The online degree in Data Science is now approved for tuition reimbursement at Qualcomm. That is, with manager's approval and based on their grades, employees will be reimbursed for courses which are listed as part of the degree program. The amount for the reimbursement varies per country, as outlined by their local HR policy.
Student Profile

Age
- Under 25: 19%
- 25-34: 36%
- 35-44: 26%
- 45-54: 12%
- 55+: 7%

Gender
- 74% Male

Intent
- 42% of enrolled students pursued this degree to increase knowledge and skills in chosen specialization area
- 37% are looking for professional development

Most important factors that influence their decision:
- Faculty Credentials
- Online Program
- Specializations Offered
- Reputation of Degree Program

Career Areas and Experience
- 1-5 years: 50%
- 6-10 years: 17%
- 10+ years: 33%
- Aerospace & Defense
- Government
- Oil & Gas
- Education/Education Services
Student Profile

CORE PERSONAS

- Career Advancers
  - Engineers who are currently working and want to advance their career to the next level.
  - This audience wants to continue actively working in the field (maintain a presence in the technical side of things) while gaining a business background that can position them as leaders who can manage teams and take on broader responsibilities in their organizations.
Program Accomplishments

30% out of state

National Brand Recognition

Graduates
MSOL Student Population

MSOL 101 Active Students

- Data Science: 28
- Electrical: 14
- Bioengineering: 14
- Mechanical: 28
- Environmental: 14
- Materials at the Nanoscale: 14

State分布如下:
- CA: 71%
- TX: 4%
- TN: 5%
- IL: 2%
- FL: 2%
- GA: 1%
- ID: 1%
- MD: 1%
- MI: 2%
- NC: 1%
- OH: 1%
- PA: 2%
- WI: 1%
- VA: 1%
- WA: 1%
- AZ: 2%
- Other: 1%

总计: 101
# Undergraduate Affairs Update for Chairs

**November 3rd, 2017**

## Fall 2017 Enrollment Targets

<table>
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<tr>
<th>BCOE Submitted wish list</th>
<th>UCR wish list</th>
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<tbody>
<tr>
<td></td>
<td>College</td>
</tr>
<tr>
<td></td>
<td>BCOE</td>
</tr>
<tr>
<td></td>
<td>CHASS</td>
</tr>
<tr>
<td></td>
<td>CNAS</td>
</tr>
<tr>
<td></td>
<td>SoBA</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
</tbody>
</table>

UCOP approved 4500 resident + ~200 non-resident freshmen.

Adjusted across UCR to accommodate the approved number:

<table>
<thead>
<tr>
<th>College</th>
<th>Freshmen</th>
<th>Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOE</td>
<td>475</td>
<td>155</td>
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<td>CHASS</td>
<td>2400</td>
<td>820</td>
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<td>CNAS</td>
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<tr>
<td>SoBA</td>
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<td>Total</td>
<td>4700</td>
<td>1280</td>
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## Targets: resident non-resident

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<th>College</th>
<th>CA Resident</th>
<th>Non-resident</th>
<th>Total</th>
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<tbody>
<tr>
<td>BE</td>
<td>465</td>
<td>10</td>
<td>475</td>
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<tr>
<td>CENG</td>
<td>2300</td>
<td>100</td>
<td>2400</td>
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<tr>
<td>CS</td>
<td>1780</td>
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<tr>
<td>CSE</td>
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<tr>
<td>Total</td>
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<td>200</td>
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<table>
<thead>
<tr>
<th>College</th>
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<th>Non-resident</th>
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<tbody>
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<td>ACC</td>
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<td>CS</td>
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<td>Total</td>
<td>1180</td>
<td>110</td>
<td>1290</td>
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### Adjusted Enrollment Targets per program down to total of 465 freshmen and 155 transfer

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<th>Reduced_F</th>
<th>Original_T</th>
<th>Reduced_T</th>
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<td>1 BIEN</td>
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<td>2 CEN</td>
<td>55</td>
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<td>3 CHEN</td>
<td>60</td>
<td>58</td>
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<td>19</td>
</tr>
<tr>
<td>4 CS</td>
<td>73</td>
<td>71</td>
<td>28</td>
<td>26</td>
</tr>
<tr>
<td>5 CSBA</td>
<td>15</td>
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<td>6 ECE</td>
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</tr>
<tr>
<td>7 ENVE</td>
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<td>10</td>
<td>10</td>
</tr>
<tr>
<td>8 ME</td>
<td>80</td>
<td>76</td>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>9 MSE</td>
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<td>29</td>
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<td>Total</td>
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### Per program as of October 1st (Final Update)

<table>
<thead>
<tr>
<th>Program</th>
<th>Target Fall 2017</th>
<th>Fall 2017</th>
<th>Diff</th>
<th>Num #</th>
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<tr>
<td>Engineering</td>
<td>36</td>
<td>31</td>
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<tr>
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<tr>
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<td>7</td>
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<tr>
<td>Mechanical</td>
<td>54</td>
<td>74</td>
<td>20</td>
<td>33</td>
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<tr>
<td>Electrical Eng</td>
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<td>41</td>
<td>5</td>
<td>31</td>
</tr>
<tr>
<td>Environmental Eng</td>
<td>26</td>
<td>26</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Aerospace Eng</td>
<td>20</td>
<td>22</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Mechanical</td>
<td>55</td>
<td>55</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total招收</td>
<td>463</td>
<td>462</td>
<td>-1</td>
<td>36</td>
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</table>

### Per program as of October 1st (Final Update)

<table>
<thead>
<tr>
<th>Program</th>
<th>Target Fall 2017</th>
<th>Fall 2017</th>
<th>Diff</th>
<th>Num #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>15</td>
<td>13</td>
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<tr>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Computer Engr</td>
<td>16</td>
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<td>25</td>
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<tr>
<td>CM Business</td>
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<td>12</td>
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<td>12</td>
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<tr>
<td>Electrical Eng</td>
<td>26</td>
<td>24</td>
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<td>12</td>
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<tr>
<td>Environmental Eng</td>
<td>10</td>
<td>10</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Aerospace Eng</td>
<td>20</td>
<td>22</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical</td>
<td>55</td>
<td>55</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total招收</td>
<td>180</td>
<td>180</td>
<td>0</td>
<td>36</td>
</tr>
</tbody>
</table>

Winter transfers: 92 applicant, 38 admissions, 27 SIRs (as of 10/27, deadline was November 1st)

AIS cutoff

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2016</th>
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<tbody>
<tr>
<td>BENG</td>
<td>4275</td>
<td>4150</td>
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<tr>
<td>CEN</td>
<td>4450</td>
<td>4430</td>
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<tr>
<td>CENG</td>
<td>4220</td>
<td>4000</td>
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<tr>
<td>CHEM</td>
<td>4375</td>
<td>4270</td>
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<tr>
<td>CSE</td>
<td>4220</td>
<td>4000</td>
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<tr>
<td>MENG</td>
<td>4220</td>
<td>4000</td>
</tr>
<tr>
<td>MSE</td>
<td>3975</td>
<td>4000</td>
</tr>
</tbody>
</table>
Winter transfers as of 10/27/2017

- UCR received a total of 610 applications for winter transfers
- KCEG: 92 applications, 38 admits, 27 SIRs
- CHASS: 306 applications, 235 admits, 138 SIRs
- ANAS: 135 applications, 65 admits, 53 SIRs
- SOBA: 93 applications, 44 admits, 33 SIRs

ABET Updates and Reminders

Drafts of self studies are due for review on Thanksgiving – please assist when needed your ABET coordinator

Remember that Chairs are in charge – e.g. self study cannot have wording "...for questions please cc..." – all correspondence should go to the Chair and all responses should come from the Chair – internally it can be arranged in many ways.

It is OK to have a problem (retiring instructor, old equipment...) and being aware of it and taking steps to rectify it. Being oblivious of the problem is not good.
2012-2013 ABET Accreditation Results

Accredited until September 30, 2019 – full accreditation

Reaccreditation will be a comprehensive general review
A request for reaccreditation due to ABET by January 31, 2018
Self-Study Reports due July 1, 2018
Site visit will be sometime in the Fall (early November).

Status: programs had Board of Advisors meetings, revised
PEOs, data is in good shape, several self studies are in
advanced stage, monthly meetings with ABET coordinators,
monthly reports to program Chairs...
BCOE 4 Year Funding History

- Lecturers
- Staff
- TA-ships
- GSRs
- Supplies/Services, Misc.
- GPP
- MSNRT
- ICR
- Summer Session
- Faculty PC Replacement
- Faculty Recruitment
- Instruc. Equipment
- Grad Stnt Recruitment
- Match/Retention/IAA
- Other

*Lecturer amounts are based on reimbursement amounts.

***Instructional Equipment funds not allocated in FY17

****Other items include: CRIS & CNSE support; Systems expenses; ABET funding; & Student Organization support; Facilities exps REIMB non-salary; course buyouts; GL/EP; conf room usage; workcomp; grad app fees

*****This only includes Special State Appropriations (18802) & General Funds (19900), except for 20308 for GPP, 19942 for MSNRT, and 19917 for PC replacement.
BCOE 4 Year Funding Percentage History

- 60%
- 50%
- 40%
- 30%
- 20%
- 10%
- 0%

FY13/14 FY14/15 FY15/16 FY16/17

- Depts/Programs/Centers
- Dean's Office
- Student Affairs
- Faculty & Chairs
- Initial Comp Exps.

Items included in Totals above:

- Lecturers
- Staff
- TA-ships
- GSRs
- Supplies/Services, Misc.
- GPP
- MSNRT
- ICR
- Summer Session
- Faculty PC Replacement
- Faculty Recruitment
- Instruc. Equipment
- Grad Stdent Recruitment
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*****This only includes Special State Appropriations (18802) & General Funds (19900), except for 2030B for GPP, 19942 for MSNRT, and 19917 for PC replacement.
### MSNRT Distribution of Income

*Actuals for FY 15 & FY 16; Proposed for FY17*

<table>
<thead>
<tr>
<th># of FTE</th>
<th>FY15*</th>
<th>FY16*</th>
<th>FY17**</th>
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<tbody>
<tr>
<td></td>
<td>66</td>
<td>71</td>
<td>106</td>
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<tr>
<td>Total MSNRT</td>
<td>498,366</td>
<td>536,121</td>
<td>831,949</td>
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<tr>
<td>Indirect Cost***</td>
<td>0</td>
<td>0</td>
<td>401,656</td>
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<tr>
<td>Available for Dist. &gt;</td>
<td>498,366</td>
<td>536,121</td>
<td>430,293</td>
</tr>
<tr>
<td>20% Dean's</td>
<td>99,673</td>
<td>107,224</td>
<td>86,059</td>
</tr>
<tr>
<td>80% Depts.</td>
<td>398,693</td>
<td>428,897</td>
<td>344,234</td>
</tr>
<tr>
<td></td>
<td>498,366</td>
<td>536,121</td>
<td>430,293</td>
</tr>
</tbody>
</table>

*FY15 & FY16 MSNRT College allocation from Campus was 50% of total; indirect costs were not charged

**FY17 MSNRT College allocation from Campus was 70% of total; FY17 # of FTE is estimated at this time

***FY17 Indirect cost calculation per Grad Student FTE:

- Infrastructure (Police/ERM, C&C, Capital Renewal, IT): $1,103/FTE
- Grad Student Support (Grad Division): $961/FTE
- Student Support (Registrar, Health & Wellness, etc.): $249/FTE
- Academic Research (VPIA, VCUA, Library): $1,488/FTE

Total > $3,801/FTE
Overview of Presentation

- Provost's "Teaming" Mini-Grant Program
- Shared Core Facilities
- "Office of Technology Partnerships" (OTP)

Gillian Wilson
Professor of Physics & Astronomy / Chair of Research & Economic Development Advisory Board

Larry Morgan
Director, EPIC (Entrepreneurial Proof of concept and Innovation Center)
Research & Economic Development Advisory Board

- Gillian Wilson - Physics & Astronomy (Chair)
- Khaleel Abdulrazak - Psychology
- Mark Alber - Mathematics
- Emma Aronson - Plant Pathology & Microbiology
- Christopher Bardeen - Chemistry
- Mitch Boretz - BCOE
- Sean Cutler - Plant Cell Biology and Chemistry
- Erith Jaffe-Berg - Theatre, Film and Digital Production
- Eamonn Keogh - Computer Science & Engineering
- David Kisailus - Chemical & Environmental Engineering
- Cengiz Ozkan - Mechanical Engineering
- Karthick Ramakrishnan - Political Science
- David Reznick - Evolution, Ecology & Organismal Biology
- Ming Lee Tang - Chemistry
- Emma Wilson - School of Medicine
- Elaine Wong - School of Business

Ex Officio

- Michael Pazzani - Vice Chancellor for Research & Economic Development
- Rebecca Goldware - Chief of Staff, Research & Economic Development
- Brianna Cates - Executive Services Officer, Research & Economic Development
- Israel Flosas - Director of Educational Technology and Computing Services, Computing & Communications

New (Biannual) Provost's "Teaming" Mini-Grant Program

- Early-stage germination of ideas, networking and building of collaborations
- New lines of research and new interdisciplinary collaborations with the potential for solving important and challenging problems
- Activities leading to UCR collaborative seed grant funding or state, national or foundation extramural grant funding
- Likely deadline December 1st 2017
- Up to 3k for workshops, symposia, visitor costs, refreshments
Shared Core Facilities

• Nanofabrication Cleanroom Facility
• Central Facility for Advanced Microscopy and Microanalysis (CFAMM)
• Center for Advanced Neuroimaging (CAN)
• Institute for Integrative Genome Biology (IIGB)
• STEM Cell Core
• High-Performance Computing | Bioinformatics Facility
• Analytical Chemistry Instrumentation Facility (ACIF)
• Medical School
• Vivaria

Looking to do “Customer Discovery” with Users to Sustain/Improve Facilities

What is this “Office of Technology Partnerships” of which you speak?

“Gone thought I was on to something but I can’t figure out how to move it.”
Mission of Technology Partnerships

To facilitate the development and commercialization of ideas emanating from UCR and the community...

For the Benefit of Society

2016-2017 Office of Technology Partnerships Accomplishments:

- **70** Partnerships with Industry
- **75** Submitted Disclosures
- **207** Active Licenses
- **46** Trained Teams in Entrepreneurship

- **$10 Million** Executed Corporate Sponsored Research Agreements
- **$2.2 Million** Received in State Funding to Support Innovation and Entrepreneurship
- **$1 Million** Awarded in EDA Grants to Support Innovation
- **$10 Million** Launched Highlander Venture Fund

Entrepreneurial Proof of Concept and Innovation Center (EPIC)

EPIC provides faculty, staff, students and local innovators valuable resources and tools to support their entrepreneurial journey. EPIC is a complete path-to-market platform for innovators to validate their ideas, build their team and launch their company.

New Associate Vice Chancellor, Rosibel Ochoa, hired July 1, 2016
Have an idea to develop, protect, commercialize?

OTP can help You Decide if Your Idea has Potential for:

- Societal Benefit
- New Pedagogy
- Student Experiential Training
- Industry Partnership
- Research Funding
- Foundation Funding
- Intellectual Property (IP)
  - Patent, License
- Commercialization
- Startup Company
- Funding your blissful early retirement to Hawaii

Goose Bumps
UC Riverside Transformed Into Hub of Innovation with National Science Foundation I-Corp Site Status

NSF will also award UC Riverside a $500,000 grant

• Prestigious NSF Innovation Corps Site grant to provide in-house commercialization training to UCR faculty and students over the next 5 years

• 10 UCR teams per quarter selected to participate in “Startups for Innovators” workshops

Co-PIs Rosibel Ochoa, Gillian Wilson & Larry Morgan

“Startups for Innovators” workshop, spring 2017

Faculty Involvement in UCR’s “Startups for Innovators” Workshops

Faculty do not have to attend the workshops but are essential for assembling a team of postdocs/students and submitting an application

Teams with this basic training increase their chances of getting many other different kinds of resources (funding, industry connections, community relations etc)
Next application deadline is January 2018 for winter quarter workshops

Teams receive training in how to interview customers & engage with industry partners

UCR participants eligible to receive up to $3,000 to help develop an idea

Teams who participate in UCR's "Startups for Innovators" workshops become eligible for selection to the NSF I-Corps National Innovation Network Teams program ($50k)

Also have a greater chance of receiving Small Business Innovation Research (SBIR) or Small Business Technology Transfer (STTR) awards

Talk to us! (separately or together)
gillianw@ucr.edu
larry.morgan@ucr.edu

To set up an appointment with Rosibel, email judy.swineford@ucr.edu

If you already working with OTP and are having any kind of problem we especially want to hear from you!!
Notes from the CAP Discussion with Deans 10/23/17

CAP chair – Vyjayanthi Chari (math)
CAP vice-chair - Rajiv Gupta (CSE)*

Members: Adam Lukaszewski (botany), Sherryl Vint (English), Rick Smith (SOBA), Carl Cranor (philosophy), Howard Judelson (plant path), Walter Clark (music), Mary Droser (earth science), David Pion-Berlin (political science) *

*a absent from meeting

Research:

Research outcomes a priority – not the money. Make sure letters (as well as mentoring of faculty) are clear on this point. The call focuses on output from grants, not just the awarding of the grants.

Prestigious grants can be used as another means of peer recognition.

Highlight that $ are to achieve work and to support scholarship. If $ are necessary for research in the field, note it in the letter. If work is sustainable without money (or funds at lower levels), note this in the letter. Research without funding in Engineering is not typical, as $ are required for GSR support.

Patents are a translation of research – address it if the research output is lower due to the focus on this translation

Teaching:

Teaching – address this more. Address any difficulties. “Perceived” improvement must be justified in file with actual content (i.e. documenting programs to improve teaching, evaluation by a committee of department faculty, etc.)

Independent evaluation of teaching is encouraged. CAP suggests constructive evaluations (not just positive statements). They also suggest the department has a committee that does the evaluation of all faculty to provide letters for merit/promotion files

LSOE letters – must address teaching as a priority. External letters can’t just discuss the person’s research career. Department letters and external letters must document teaching skills (this is a different tone of letter from a standard faculty)

Service:

Service is a priority for CAP. Department letters need more than a list, rather a documentation of the actual contributions on committees and in activities

Commitment to diversity is a major consideration in service. It also can also be highlighted in the teaching component of the file (i.e. additional time spent mentoring)

Non-peer reviewed “public intellectual” work (i.e. blogging) counts towards service.
**Miscellaneous:**

File processing time has lengthened due to a considerable number of mistakes in files. Common mistakes include department letters mentioning things not in the file or outside the review period. If the information is not in the file or self-statement, the department should not comment on it. Be aware that every time a # is included in the letter it has to be double-checked at the DO and AP levels (considerable staff time). Anything mentioned in self-statement must be backed up by content in the efile, otherwise it has to be returned for editing.

“Honeymoon” merits are only for assistant professors 2 or 3. Someone doing more than this minimal level for a honeymoon is not reason for an acceleration or off-scale.

Accelerations – there must be a driver for the acceleration (a grant is not this driver). All three areas must be excellent with one particular driver for the acceleration (e.g. becoming a fellow or a similar award)

Focus letters on CONTEXT (why work is important and how it is important), not on lists or counts

To support and retain strong step 4 professors, encourage/consider a career review to step 6 rather than waiting 6 years to get there

**NEW:** professor 5 and 9 are now eligible for additional off-scale since they can’t get a merit at these barrier steps

Quinquennial review – expectations are good teaching and service, as well as “evidence of effort towards scholarship” (i.e. mentoring students, invited talks or involvement in professional society)
Gordon Bourns, CEO of Bourns, Inc.

"Placeholder copy until we receive final quote. I am pleased to partner with a world-class public university system like the University of California and the innovative faculty and researchers at UCR's Bourns College of Engineering. Together, we are working to develop new solutions that ensure a clean energy future for our planet and its people."

Gordon Bourns, CEO of Bourns, Inc.

129 Faculty members
600+ Areas of research
$313K Average research expenditure per faculty member
90+ Fellows of Professional Societies

U.S. News and World Report: One of the top three ranked public engineering colleges of its size in the country

8th CWTS Leiden Ranking
100% of departments ranked by Shanghai Ranking

The Industry Partners Program opens many doors for businesses, providing access to a broad range of people and resources to help you achieve your corporation's objectives. Together, we will create a customized set of benefits that meet your company's needs.

Winston Global Energy (Gold Member)

"I am pleased to partner with a world-class public university system like the University of California and the innovative faculty and researchers at UCR's Bourns College of Engineering. Together, we are working to develop new solutions that ensure a clean energy future for our planet and its people."

Winston Chung,
Founder & President, Winston Global Energy

For more information, please contact:
Mike Allen
Associate Director Corporate Strategic Partnerships
Tel: (951) 827-6569
www.engr.ucr.edu/industry/

UCR
Marlan and Rosemary Bourns College of Engineering
The Marlan and Rosemary Bourns College of Engineering is a unique place and we pride ourselves on the innovative research and education that has resulted in us becoming one of the top three public engineering colleges of our size in the country. Our corporate partners have played a significant role in our success and we are grateful for having such amazing collaborators.

As part of the 10-campus University of California system, we’re large enough to conduct internationally-recognized research using our world-class facilities, yet small enough to collaborate with our partners on projects that can meet their specific needs. We are also one of the most diverse universities in the world, offering partners fresh, new perspectives on solutions to some of a company’s most significant challenges.

I invite you to meet with our faculty and tour our facilities to learn more about becoming our partner. We are deeply committed to our collaborators and look forward to meeting and working with you on the next generation of engineering advancements.

Sharon Walker
Interim Dean

TALENT
- Access outstanding students for internships and employment
- Sponsor a senior design project
- Collaborate with internationally renowned faculty
- Sponsor a graduate student
- Establish research collaborations

INNOVATION
- Gain insider access to the latest research and innovation
- Consult with UCR’s intellectual property experts in technology commercialization
- Access technologies available for licensing
- Work with our Office of Research to negotiate research agreements
- Receive access to facilities and sophisticated equipment
- Partner with the university on joint proposals

FAVOLITY
- Network with faculty, students, and technology leaders
- Serve as a guest speaker
- Interact with student organizations
- Support STEM outreach and diversity
- Present your company to faculty and students
- Attend seminars and lectures
- Create named company scholarships and fellowships

PARTNERSHIP OPPORTUNITIES
Combine any of the following to meet your company’s Corporate objectives:

- STEM outreach sponsor:
  - Bourns Engineering Day — Attracting 1000+ K-12 students
  - MESA Robotics Competition — Attracting 500+ middle school and high school students
  - Code Camp 4 All — Attracting 120+ high school students from underserved communities

- Student professional club sponsor
- Corporate-named undergraduate student scholarships
- Senior design project sponsor
  - Team of 3-4 students on an industry-defined project
- Department lecture sponsor
- Career Center Alliance
- BCOE Career Day
- Corporate-named graduate student fellowships
- Corporate-named faculty office
- Various corporate naming opportunities (e.g., labs, conference rooms, outdoor areas, etc.)
- Research support
- Sponsored research
- Dean’s Innovation Fund for areas of greatest need
Homecoming—Join Us!
Saturday, November 18, 2017

Noon  Back to Class:
      Science and Superheroes
      with Assistant Professor
      Suveen Mathaudhu

1 p.m.  BCOE Alumni & Parents
        Open House

3 p.m.  50 Years at UCR:
        Celebrating Professor
        Tom Payne

Register Now: homecoming.ucr.edu

Congratulations
Outstanding Young Alumnus Award Recipient
Charles Cai, Ph.D. '15 (Chemical and Environmental Engineering),
CTO MG Fuels; Assistant Research Engineer & Assistant Adjunct
Professor, Bourns College of Engineering Center for Environmental
Research & Technology.

Innovation, Innovation, Innovation...
Innovation is what we do! www.engr.ucr.edu/innovation
PLEASE SAVE THE STAR DATE

FRIDAY, DECEMBER 8

2017

BCOE STAFF APPRECIATION LUNCHEON

Noon—2:00

dean@deansdesk@engr.ucr.edu.