

**College of Engineering & Computer Science**  
**Dean's Spring Advisory Board Meeting**  
**Saturday, April 25, 2015**  
**8:30am – 2:00pm**  
**HEC-101**

**Members Present:** Sharon Bauer, Kamran Cheema, Nancy Clutts, , Brian Crutcher, Carl D'Alessandro, Chester Kennedy, Dennis Lind, Bill Miller, Ben Patz, Jeffrey Pridmore, Zachary Quandt, Oscar Rodriguez, Beverly Seay, Jennifer Szaro, Sonserae Tolas

**Members Absent:** Siva Banda, James Brown, Christos Christodoulou, Carol Craig, Tim Cowan, Greg Hanson, Philip Holt, Dave Maxon, Craig Miller, Masoud Moradi, Leila Nodarse, Guillermo Novo, Dan Rini, Pat Simpkins, Tim Yang, Vinod Philip, Andy Schwalb

**Ex-Officio Present:** Michael Georgiopoulos

**Guests Present:** Kevin Mackie for Mohamed Abdel-Aty, Mostafa Bassiouni, Waldemar Karwowski, Tim Kotnour, Ranganathan Kumar, Gary Leavens, Yoav Peles, Zhihua Qu, Charles Reilly, Sudipta Seal, Robin Knight, Michael McLaughlin, Kate Hurt

**Minutes:** Deb Williams

1. State of UCF Update (Michael Georgiopoulos)

Board update: Welcome to new board members Sonserae Tolas, Carl D'Allessandro, Sharon Bauer and Kamran Cheema. Welcome to Jeff Pridmore, CECS's new Director of Industry Relations. Going forward, board meetings will be more interactive. Board members will be paired with a department Chair or Faculty that match the board member's interest and core business.

UCF is hiring 100 new faculty, CECS was given 15 faculty. During 2014-1015, UCF has awarded 1,250 undergraduate degrees and 450 graduate degrees in STEM. State Performance Funding may allow CECS to hire about 100 new faculty over the next five years. The UCF Downtown campus will be opened in 4-5 years with a projected student headcount of 15-16k. COHPA will be relocating downtown. CECS's MakerSpaces and Innovation Labs will be emulated downtown. A new Advanced Manufacturing Manufacturing Center is under construction in Osceola County (ICAMR).

2. Employability Briefing (Georgiopoulos, Sonserae Tolas, Tim Kotnour)

What does employability look like and how is it measured? Need to define and distinguish capabilities, which are behaviors. Once defined, students can acquire the behaviors. There are ten capabilities students must master. From the discussion, the following list was created:

<b>Focus</b>	<b>Questions</b>
<b>Concept of Measuring</b>	<ul style="list-style-type: none"> <li>• How do we determine what the current level of CICA (Creative, Innovative, Collaborative, Accountable) is today?</li> <li>• How can we measure the CICA levels?</li> <li>• Where do we need our graduates to be on a CICA level?</li> <li>• How do we develop the: skills + attitudes → behaviors</li> <li>• How do we balance the individual technical excellence skills and the soft skills?</li> </ul>
<b>Student Use</b>	<ul style="list-style-type: none"> <li>• How can we connect to the specific activities and behaviors to go do today?</li> <li>• How can we give the student experience with the performance evaluation process they will experience in the workplace?</li> <li>• How can we increase the consistency of the students coming out?</li> <li>• How can we ensure the students are successful in the workplace?</li> <li>• How can we help students translate/tell their story?</li> <li>• How well do we provide the platform/experiences to build the behaviors/skills?</li> <li>• How do we help the student transition to the workplace? What is the onboarding process? How can we help the student understand the corporate culture?</li> </ul>
<b>Environments</b>	<ul style="list-style-type: none"> <li>• How can we align to the different career paths?</li> <li>• What is the context (e.g., large company, entrepreneurial)?</li> </ul>
<b>Industry Use</b>	<ul style="list-style-type: none"> <li>• How can we help the hiring manager use this?</li> <li>• What is the value prop to the hiring manager? To the Student? To UCF?</li> <li>• How can we integrate with the intern and co-op experiences?</li> </ul>
<b>Integrate with Other Activities</b>	<ul style="list-style-type: none"> <li>• How can we work this as a university and industry team?</li> <li>• What existing resources are available to support this effort?</li> <li>• How can we involve Career Services and other university programs/efforts in the effort?</li> <li>• How can we integrate with <ul style="list-style-type: none"> <li>• Industry: intern, co-op, new hire</li> <li>• Students: student clubs, student club leaders, EL minor/certificate, all</li> <li>• New freshman, transfer students</li> <li>• Community college, 3 partner universities, athletics</li> </ul> </li> </ul>
<b>UCF Use</b>	<ul style="list-style-type: none"> <li>• How does this concept apply to new faculty hires? Will we hire faculty that can model these behaviors?</li> </ul>

Next Steps:

- i. Organize the feedback and plan
- ii. Define the scope – connect with university efforts, Melody and Beth
- iii. HR working group to develop profile (keep to “4” capabilities)
- iv. Develop deployment options – clubs, develop circle with club leaders
- v. Engage/broaden faculty
- vi. Integrate with consortium and feeder schools
- vii. Tie into new faculty hires
- viii. Include accountability

ix. Ensure alignment with CECS culture – is it reinforced in school

3. Board Discussion (All)

Discussion ensued on ideas, Myers-Briggs and behavioral practices that are available to prepare students for new jobs. Focus should be on four topics: Collaboration, accountability, creativity and innovation.

**TODO:** look into integrating career readiness with college. Can this be facilitated via student clubs?

**TODO:** By the next meeting, Kotnour and Tolas will have redefined the scope of student capabilities. The following board members have committed to provide a person to help us achieve the newly scoped capability list: Szaro, Crutcher, Bauer, Quandt, Kennedy, D’Alessandro, Lind. Assisting with defining the new scope: Cheema, Rodriguez, Seay, Holt, Patz.

4. Limbitless Solutions Team (Dominique Corbin)

A new center (CABAM; Center for Advanced Biomedical Additive Manufacturing) was created (collaboration of Limbitless team members and UCF).. The team is in need of 55-60 student volunteers from all disciplines, including artists. The team also needs mentoring from industry. The team is trying to branch out in order to make a greater impact on lives. Over 100 candidates have requested arms. Through FDA approval, the team may be able to receive reimbursement from candidates’ insurance company.

5. MS Tuition Sharing Model (Georgiopoulos)

MS student attendance is declining at UCF. As we increase SCH’s for MS students, the Provost has agreed for CECS to receive 75% of the excess tuition revenue. In order for this to happen, we must recruit more MS students. This new funding will be used to increase support for PhD students which, in turn, will increase our national ranking.

**TODO:** determine if MS student attendance is declining at competitor universities.

6. Transportation Research Centers (Essam Radwan)

CATSS (Center for Advanced Transportation Systems Simulation), started in 1998. Annual expenditures are at \$1M. It encompasses 8 faculty and 20+ GRAs. Research areas include traffic simulation, roadway safety, commercial vehicle compliance, congestion pricing, human factors and infrastructure health monitoring.

**TODO:** connect Dr Aty with Bev Seay.

7. Development Progress Report (Bev Seay)

UCF’s goal is \$500M by December 2018. Currently, UCF is at 38% of reaching its goal. CECS’s goal is \$29M and is at 62% of its goal. The role of the board is to understand what the college is doing and be able to talk about it with potential donors.

8. College Update (Georgiopoulos)

Overview provided of CECS’s enrollment numbers, teaching productivity, research productivity, new hires for faculty cluster initiative and 2016 engineering school rankings. CECS needs were also discussed. The new hires will be distributed as follows: CECE – 7, CS – 7, ECE – 3, IEMS – 2, MAE – 9, MSE -1. CECS is lead or co-lead on seven new faculty clusters to be decided soon. Discussion ensued regarding how college rankings are determined and how CECS could increase its ranking.

9. Eli2 Update (Kotnour)

Eli2 impacted 50 students in 2015. How do we impact 8k students? How do we get there? A shift in culture is needed.

**TODO:** Dr. Kotnour will meet one on one with new board members.

10. Closing Summary (Bev Seay, Michael Georgiopoulos)

- i. Employability: Siemens provided a profile. Needs to be more communication with HR departments in industry. Communicate message to students via student clubs, faculty and senior design coordinators.
- ii. Tuition Sharing Model: more information is needed on MS program headcounts at peer institutions to determine what efforts, if any, have increased graduate student headcounts at these peer institutions. The dean needs to connect with key industrial stakeholders to determine potential of sending their employees to graduate school.
- iii. CECS Development efforts: so far, the numbers are great. We are thankful for the board's support.
- iv. US News Rankings: if asked, please provide your assessment to US News and World Reports; Faculty to connect with industry in order to increase funding which increases ranking. It is great if the Dean's Advisory Board members support Jeff Pridmore, in his new role, as the Director of Industry Relations to increase research funding for the College that is coming from industry sources or collaborations of CECS and industry.
- v. Please provide your feedback on how we're doing and how we can do better, to Dean, Bev or Robin.

Meeting adjourned.