MIE Industrial Advisory Board

Wednesday May 1, 2013 Meeting Minutes
UMASS-Amherst, Massachusetts

Attending:

1. Don Fisher, Department Chair MIE
2. James Rinderle
3. David Anderson
4. Paul Banks
5. Gerry Caron – via telephone
6. Tom Lyden
7. Mike Mahoney
8. John Stuart
9. Jessica Townsend
10. Gary Epstein
11. Marty Ross
12. Arnie Vandoren – elected to MIE Industry Advisory Board
13. Jim Pearson – elected to MIE Industry Advisory Board
14. Paul Washburn

Meeting minutes:

1. The minutes of the October 19, 2012 Industry Advisory Board (IAB) meeting were approved.

2. Arnie Vandoren and Jim Pearson were unanimously elected to the IAB.

3. Don provided a state of the department update. Copy of the presentation will be available through Pam.

   a. A new College of Engineering Dean was recruited and started March 1, 2013:
      i. Tim Anderson, Dean
      UMASS-Amherst College of Engineering
      BS Iowa State
      MS UC-Berkeley
      Department Chair Chemical Engineering and Vice Provost, University of Central Florida
b. Tim’s vision is to be a top land-grant university in the country
   i. Has a plan
      1. Become members of the AAU
      2. Compete with MIT and Harvard on research
      3. Increasing Engineering faculty by 25%
      4. Current no of professors = 96
      5. Current openings = 4
      6. Looking to add = 16
      7. Total forecast of current goal = 115

c. MIE moving into Goessmann Hall after Chemical Engineering moves out

d. MIE has current openings and 300 applications / 6 best and final applicants

4 ELITE = Engineering Leadership Innovation Technology Entrepreneurship

5 The IAB toured the Innovation Lab (thank you Paul Banks)

6 ABET Update overview by Jim Rinderle

a. Educational Objectives:
   i. Think
   ii. Communicate
   iii. Approach professional status
   iv. Demonstrate
   v. Employ their engineering education as a foundation for working for industry

b. Will need feedback from IAB and other constituencies
   i. Are we doing the right things
   ii. As employers of UMASS graduates

c. Write a Jim a letter
   i. Action item = Jim to send a deck and questions

d. Report due in June

7 Don has a concern over the size of classes

a. Growing from 20 to 40 to 60
b. Enrollment is 650 students
c. Teach faculty is 25
d. Faculty approached Don about the increasing size of classes
e. Students have not been complaining
f. Don thinks 60 is the maximum
   i. Don is considering a UTA – Undergrad Teach Assistant
   ii. Cost is $1,000/semester per student
g. MIE PhD’s do not teach or grade
i. Faculty concerned about loss of grad students missing research time
ii. Note = Chemical PhD’s do grade

8 Innovation Shop Capital Campaign update

a. Ericka Prew = eprew@ecs.umass.edu
b. “UMASS Gives”
   i. Inauguration of new Chancellor
   ii. Raised $84,000 from 36 hour campaign
c. Carl Christianson committed $150K for name rates of Innovation Lab
d. $100K donated
e. $50K is a challenge grant
f. If we raise $50K, Carl will match
g. Paul Hohenberger is at MIT. His replacement is Shakenna Williams – on board for two (20 Months

9 Alumni Involvement = Innovation Shop

a. Need 100% board support
b. Need $150K
c. The Innovation Shop is THE priority for MIE

10 iRobot (Gerry Caron) Is willing to host a fall Alumni Event

a. Action item = John and Shakenna need to follow up
b. Recommend a combined board meeting
c. Mike is interested in growing the event through social media

11 Term limits = Paul W. and John’s second three-year term is up in October. We are searching for willing and interested replacements

12 Erin Baker, Professor:

a. Applying for NSF ERC Grant
b. Trying to do 500 Gigi watts offshore by 2025
   i. Today there is zero (0) in US
   ii. There is 4.6 Gwats worldwide
   iii. Total wind today is 42Gigawatts
c. Barriers:
   i. Cost
ii. Sighting

iii. Integration with energy grid

**d.** Looking for industry support

*Next meeting in October at the Fall Alumni Event at iRobot?*