

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 Gwatts 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?