

INDUSTRIAL ADVISORY COMMITTEE (IAC) MEETING
DEPARTMENT OF TECHNOLOGY, COLLEGE OF ENGINEERING, SIUC
SPRING 2011

Agenda

1. Introduction of Members
2. Approval of Fall 2010 Minutes of IAC meeting
3. Nomination of Kent Gouty as IAC Member
4. Announcements/Events
 - a. Summer Camps: Hovercraft, UAV (June/July)
 - b. ASQ Conference (April 28th)
 - c. Carterville HS Science and Technology Fair (April 15th)
5. Industrial Technology
 - a. Status of Name Change: *Applied Engineering and Technology* (approved by IAC on 11/5/10)
 - b. Curriculum Review
 - c. Six Sigma Projects – overcoming obstacles with industrial partners
 - d. Recruitment: Letters to Community Colleges
 - e. On-line Course Development
6. Manufacturing Systems
 - a. On-line Course Development
 - b. Curriculum Review
 - c. Strategic Planning Document (in-progress)
 - d. Attain Accreditation

**Industrial Advisory Committee
Technology Department
Meeting Minutes: April 29, 2011
College of Engineering
Carbondale, IL**

Present:

1. Tom Bennett (Aisin)
2. Kent Gouty (GM)
3. Chuck Kuhn (Aisin)
4. Todd Suits (Cooper B-Line)
5. Brian Milligan (The Boeing Company)
6. Ron Milligan (The Boeing Company)
7. Roger Chang
8. Bruce DeRuntz
9. Julie Dunston
10. Mandara Savage
11. Tomás Velasco

Introduction of Members

The meeting commenced with an introduction of the industrial advisory committee members and on-campus faculty.

Nomination of Kent Gouty

A motion was made by B. DeRuntz to nominate Kent Gouty as a new member of the industrial advisory committee. R. Chang seconded the motion. The motion was approved unanimously.

Approval of Fall 2010 Minutes

Minutes of the Industrial Advisory Committee meeting held on November 5th, 2010, were reviewed. *Motion to approve the minutes was made by R. Milligan, seconded by C. Kuhn. Motion was approved unanimously.*

Announcements

- a. M. Savage stated that the department would be sponsoring two summer camps, Hovercraft and UAV. In May, the department will visit Carterville Intermediate School. The department will continue in such activities that raise the profile of the department in the community.
- b. T. Velasco announced that approximately 60 people attended the 8th annual ASQ conference on campus, held April 26th. 16 speakers gave presentations and there were more participants from industry than in past years (around 40). R. Milligan asked if

- the presentations from the conference would be made available. T. Velasco stated that he was making arrangements to have them posted on the IMEC website. C. Kuhn recommended having flexibility in registration, so that attendees could choose ½ day sessions or full day sessions. In response to T. Velasco's concern over having fewer students in attendance, T. Bennett suggested presenting a 5-minute introduction on Six Sigma to freshmen to encourage a higher number of students to participate. K. Gouty stated that lean, problem-solving and six sigma are big pluses in graduates being interviewed for positions. T. Bennett commented that advisors need to know what courses are available and the importance of their content. C. Kuhn recommended listing starting salaries for green belts versus those without a green belt.
- c. The department participated in Carterville High School's science and technology fair on April 15th, 2011.

Industrial Technology

- a. M. Savage briefly discussed the status of pursuing a name change for the department from Industrial Technology to Applied Engineering and Technology. Efforts have been tabled at this point until the leadership within the college becomes more stable and can serve as an advocate for the change.
- b. An overview of the typical course sequence for IT students was presented by J. Dunston and comments were solicited. A discussion ensued over the topic of theory of constraints and in which course the material should be presented. B. Milligan recommended that the faculty provide an overview of all courses in order to identify major topics covered in each.
- c. T. Velasco asked the advisory committee for recommendations on how to overcome some of the obstacles that occur with students working on industry projects. T. Suits stated that lack of project planning was a problem and that having advance notice and creating a schedule would help. T. Bennett reiterated that the biggest obstacle was not being prepared in advance for students. R. Chang commented that projects should not be the norm due to the small number of companies to work with locally. M. Savage stated that quality is our niche and that if we identify projects as a necessary and critical component, we need to develop a strategy to extend partnerships to satisfy this requirement. B. Milligan suggested capturing inputs from previous projects and "re-using" them for current students; i.e., developing a library of projects. R. Milligan stated that Boeing has a formal University capstone project that involves participation with 3 universities; this is something that the department could become involved with. M. Savage recommended that a subcommittee be formed to develop a formal procedure for carrying out project work. *The subcommittee will consist of faculty, T. Suits, and C. Kuhn. The purpose of the subcommittee is to develop a framework for industry projects.*
- d. R. Chang explained that one of the department's recruitment strategies is to contact alumni through mass mailing. Letters were sent out to alumni from both the IT and EET programs to provide an update on the department and its activities, as well as to inform alumni of the scholarship opportunities available to their children through the Legacy scholarship program. M. Savage stated that faculty would continue to visit

- community colleges; additionally, letters were sent to academic advisors to introduce the department and future plans include the development of transfer guides with community college advisors.
- e. M. Savage presented enrollment numbers for the department. Present enrollment of IT is 59 students on-campus and 191 students off-campus. ET currently has 23 students. Graduates in the IT program for the spring/summer 2011 semesters are 16 on-campus and 72 off-campus. For fall 2011, 42 students have been admitted into the department, 19 for IT and 23 for EET. The department has been charged with contacting all students that have been admitted. T. Bennett, C. Kuhn, T. Suits, and K. Gouty volunteered to talk to potential students about the program and its benefits.

Manufacturing Systems

- a. R. Chang announced that the department had received approval of the on-line Manufacturing Systems program. The schedule for on-line course delivery was presented to the committee. M. Savage stated that students must be IT graduates in order to enroll in the on-line program due to the prerequisite requirement.
- b. The Manufacturing Systems curriculum was presented to the advisory committee for review and input was solicited.
 - i. B. DeRuntz asked the industrial members for their views on offering a course in high-performance teams. C. Kuhn commented that the concepts could be applied in other projects students are already completing. R. Milligan suggested developing a template for students to follow. T. Bennett recommended developing a tutorial for students to view on their own, independent of any course, that would identify concepts and provide a framework for team projects; for project work, teams could be graded on their performance.
 - ii. In addition to the six core courses that will be developed in an on-line format, other technical electives will be developed by faculty in the EET program. Two possible courses include: Energy Management, Management Information Systems.
 - iii. Input was solicited on additional courses/topics for the master's program. Ideas included the following:
 - Risk management, risk mitigation, FMEA, global manufacturing, cultural/political issues (RM)
 - Toyota Production System, Hoshin Kanri (CK)
 - Global supply chain management, PICII, resource management (TB)
 - Standardization, building quality, people involvement, short lead-times, continuous improvement (KG)
 - Plant start-ups/shutdowns, work transfer (BM)
- c. A strategic planning document is being developed by the department, which includes an assessment plan. Work will continue in the fall semester to further develop and implement the strategic plan.
- d. As part of the strategic plan for the Manufacturing Systems program, the department's short-term (3-5 years) plan is to attain accreditation.