

INDUSTRIAL ADVISORY COMMITTEE (IAC) MEETING
DEPARTMENT OF TECHNOLOGY, COLLEGE OF ENGINEERING, SIUC
SPRING 2010

Agenda

1. Introduction of members
2. Introduction of Eden Thorne, Director of Development, College of Engineering
3. Approval of Fall 2009 minutes of IAC meeting
4. Announcements/Events
 - a. ATS scholarships
 - b. Community College visits
 - c. JALC Spring Transfer Day (March 14)
 - d. ASQ conference (April 29)
5. Industrial Technology
 - a. Industrial & Quality Engineering (IQE) proposal status
 - b. Proposed curriculum changes
 - i. IT382/IT392 merge
 - ii. IT455 – core
 - iii. IT455/IT445 lab merge – course title
 - iv. Replace PHYS 203b with ENGL 102
6. Manufacturing Systems
 - a. External review report
 - b. Updated core courses – effective July 2010
 - c. On-line course development
 - d. Program name change status

**Industrial Advisory Committee
Technology Department
Meeting Minutes: April 30, 2010
College of Engineering
Carbondale, IL**

Present:

1. Jim Akers (Woodward Governor)
2. Tom Bennett (Aisin)
3. Chuck Kuhn (Aisin)
4. Brian Milligan (The Boeing Company)
5. Ron Milligan (The Boeing Company)
6. Roger Chang
7. Bruce DeRuntz
8. Julie Dunston
9. Mandara Savage
10. Tomás Velasco

Introduction of Members

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

Eden Thorne, Director of Development, for the College of Engineering introduced herself to the committee and highlighted the fund-raising activities within the College.

Approval of Fall 2009 Minutes

Minutes of the Industrial Advisory Committee meeting held on November 6, 2009, were reviewed. *Motion to approve the minutes was made by R. Chang, seconded by R. Milligan. Motion was approved unanimously.*

Announcements

- a. B. DeRuntz announced the receipt of a recent NSF grant to that expands the existing Leadership Development program (ATS). An additional 30 scholarships will be available to COE students, totaling \$600,000, over the next several years. Each scholarship awarded will cover all tuition for a student's junior and senior years.
- b. The department continues to visit local community colleges in order to increase enrollment of transfer students.
- c. M. Savage participated in John A. Logan College's Spring Transfer Day.
- d. T. Velasco announced that 65 people attended the 7th annual ASQ conference on campus, held April 29th.

Industrial Technology

- a. M. Savage discussed the status of the Industrial & Quality Engineering (IQE) program proposal. Reallocation for one additional faculty member would be determined by the Chancellor's office. R. Milligan asked when the program would be launched. M. Savage replied as early as Fall 2011. B. Milligan inquired as to when the program would undergo the accreditation process. T. Velasco's response was after the program graduated its first round of students. B. Milligan stated that since accreditation would not be obtained until after a period of several years, the department should consider how to best market the program.
- b. The following proposed curriculum changes were discussed:
 - i. J. Dunston solicited input from the committee on the content of a new course that would merge two existing courses: IT 382 Motion & Time Study, IT 392 Facilities Planning. A proposed syllabus was presented for a new course entitled "Facilities Planning and Workplace Design". C. Kuhn commented that balancing work should be a major focus. R. Milligan agreed. C. Kuhn recommended omitting compensation and rewards. J. Akers suggested ordering the topics from a macro- to micro-level. C. Kuhn asked if the proposed course would require a Lean course as a prerequisite. T. Bennett expanded on this by stating that many people do not know how to design a cell to meet lean requirements. C. Kuhn recommended adding the PDCA cycle within the course content. B. Milligan recommended the course include consideration of planning and design in the service industries. A discussion continued on the course name. T. Bennett suggested Lean Planning instead of Facilities Planning. R. Chang agreed. B. DeRuntz suggested Planning and Workplace Design. *Motion to approve the course merger was made by C. Kuhn, seconded by T. Velasco. Motion was approved unanimously.*
 - ii. IT 455 will be modified to be a lecture course only, similar to IT 208. J. Akers expressed concern over a student having Robotics/PLCs without touching any equipment; difficult to teach without the hands-on experience.
 - iii. IT 455/IT 445 lab merge would allow students to obtain hands-on experience. It was agreed to continue the discussion of content and course title at a future meeting, after the faculty provided more details on the new lab course.
 - iv. M. Savage presented a proposal to replace PHYS 203b with ENGL 102. C. Kuhn stated that fundamentals covered in Physics B, such as sensors and technology, were important. J. Akers, on the other hand, commented that any student honored with a Bachelor's degree should know how to write. J. Dunston inquired whether technical writing could be covered in IT 440. B. DeRuntz commented that there is too much material to cover in the existing content to adequately cover technical writing. R. Milligan suggested investigating an on-line option for a writing course, whether it be an ENGL 102 equivalent or technical writing. M. Savage stated that he would investigate the on-line course options. *Motion to replace PHYS 203b with ENGL 102 was made by B. DeRuntz, seconded by T. Bennett. Motion was approved unanimously.*

Manufacturing Systems

- a. M. Savage presented the external review team report for the M.S. in Manufacturing Systems.
- b. Effective July 2010, the new core courses for the master's program include:
 - MFGS 510 Quality Assurance
 - MFGS 525 Six Sigma Black Belt II
 - MFGS 530 Lean Manufacturing II
 - MFGS 535 Service Quality
 - MFGS 540 Reliability
 - MFGS 550 Project Leadership

In addition, the department is considering the addition of 3 other courses. B. DeRuntz stated that Risk Management is an option. R. Milligan recommended covering risk and opportunity management, focusing on best practices. Two other courses will be developed by EET faculty; one possible course is energy management.

- c. The planned on-line course offering schedule was presented for the core courses in Manufacturing Systems. Two on-line courses will be offered in Spring 2011, with additional courses added in Fall 2011 and Spring 2012. B. DeRuntz added that the faculty would be attending a 3-hour workshop on best practices for on-line course development.
- d. The status of the Manufacturing Systems program name change was provided by M. Savage. The proposed name, *Quality Engineering and Management*, was challenged at the College level (by the curriculum committee) and by the Business College. The department will continue to pursue the name change since it reflects the new focus of the program.