

**Industrial Advisory Committee
Technology Department
Meeting Minutes: April 29, 2016
College of Engineering
Carbondale, IL**

Present:

IAC members:

1. Nick Baudino (Caterpillar)
2. Chuck Kuhn (Aisin Electronics)
3. Gabe Smith (John Deere)
4. Kent Gouty (GM)
5. Ron Milligan (Boeing, retired)
6. Derek Naylor (Caterpillar) – on conference call
7. Roger Chang
8. Bruce DeRuntz
9. Julie Dunston
10. Tomás Velasco

Guest attendees:

1. Shannon Barrett (Jabil)
2. Scott Cunningham (Global Experience Specialists)

Introduction of Members

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

Nomination of New Member – Derek Naylor

Derek Naylor, Process Engineer at Caterpillar, was nominated to join the industrial advisory committee by J. Dunston. *K. Gouty motioned to approve Derek's nomination, seconded by C. Kuhn. The approval of the new member was unanimous.*

Approval of Spring 2015 Minutes

Minutes of the Industrial Advisory Committee meeting held on May 1, 2015, were reviewed. *Motion to approve the minutes was made by G. Smith, seconded by R. Chang. Motion was approved unanimously.*

Announcements/Events

Leadership Development Program	<ul style="list-style-type: none"> a. J. Dunston announced that students from the Leadership Development Program (LDP) received the Delyte Morris Award for Community Service at a ceremony held on May 2. b. B. DeRuntz introduced a fundraising initiative to support the purchase of lab equipment and the future goal of creating a maker space within the department. Last year, the LDP students raised \$7000.
ASQ Conference	<ul style="list-style-type: none"> c. T. Velasco stated that the 13th annual ASQ Conference was held the previous day, with the number of attendees estimated at 85. There were 20 speakers and preliminary feedback was positive. K. Gouty offered to sponsor students to attend next year's conference and G. Smith volunteered to work with students in developing joint presentations. S. Barrett supported the idea, noting that this would help develop students' presentation skills. C. Kuhn recommended that a presentation on safety should be first on the schedule, instead of last. N. Baudino suggested that general safety procedures should be outlined at the beginning of the conference to all attendees.
POET	<ul style="list-style-type: none"> d. J. Dunston announced that the Professional Order of Engineering and Technology (POET) ceremony would be held on Saturday, May 14, prior to graduation. The order is open to both Industrial Technology and Engineering Technology students.

Industrial Management and Applied Engineering

Minor in STEM Leadership	<ul style="list-style-type: none"> a. B. DeRuntz discussed the plan to expand LDP into other STEM colleges (Agriculture, Science, Applied Sciences and Arts) at SIUC by offering a minor in STEM leadership. Other Colleges have recognized the need for technical leadership. An initial survey among students the STEM colleges indicated that 75-80% of the students were interested in the proposed minor. So far, 7 cohorts have completed the LDP program, with positive outcomes. A longitudinal study conducted by ATS shows that students from LDP receive their first promotion around the same time as their peers but that they gain promotions 1 year sooner than their peers after that. <p>In addition, B. DeRuntz mentioned that the IMAE 442 Fundamentals of Leadership course, approved by the IAC members at the spring 2015 meeting, may become a University core course.</p>
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Curriculum – Data Analysis/Presentation

- b. J. Dunston presented the current curriculum and solicited feedback on content. G. Smith suggested looking into business analytics software, such as Tableau. D. Naylor recommended data visualization software, possibly through the use of SAP dashboards. N. Baudino and S. Barrett supported the use of Minitab. R. Milligan stated that it would be beneficial to pull data together from multiple sources to create individualized dashboards. S. Barrett commented that students should be able to quickly visualize facts that lie within the data. S. Cunningham added that if student know how to work within Excel to graphically represent and interpret data, those skills can be easily translated to other programs. G. Smith stated that some institutions are offering certificates in data analytics. B. DeRuntz suggested that the department promote courses in Technical Resources Management that cover data analysis through the use of Excel. In addition, B. DeRuntz recommended that students could learn the basics of Excel through an online course or module. R. Milligan emphasized the importance of presentation skills in presenting data and stated that one of the most useful courses he has taken was an effective presentation seminar. C. Kuhn suggested a peer evaluation approach. N. Baudino commented that it is important for students to have a foundational understanding of the concepts first before using data analysis software. In summary, the committee recommends that the curriculum provides learning experiences for developing students' ability to represent, interpret and present data, and that presentation of data undergo a peer-review process.

Laboratory Experiences

- c. A noncompliance found by the accrediting team in their final report was related to a lack of laboratory activities J. Dunston requested suggestions from the committee. S. Barrett recommended providing a body of evidence based on student work. S. Cunningham suggested the use of a set of validation criteria and that students would be evaluated on which criterion they meet. C. Kuhn stated that a survey of other programs would be beneficial, as well as proving a matrix of courses that identifies the theory, lab applications, and output to identify gaps.

Mission/Vision

- d. The department's mission and vision were reviewed and input provided from IAC members. It was recommended that the mission and vision statements be shortened to highlight key aspects of the program, such as: highly qualified graduates, lifelong learning skills, research. Discussion led to the idea of developing a single sentence that defines the department and catches the eye of potential students. Some suggestions that were presented include: forefront of innovative course delivery, leaders in innovation in education, transforming today's students into tomorrow's technical leaders. R. Milligan mentioned that St. Clare Hospital has an effective mission statement and video that he would send out.

Enrollment

- e. Enrollment figures were presented and discussion ensued on how to improve the numbers. C. Kuhn suggested developing recruitment KPI's for the college recruitment activities. K. Gouty mentioned that several programs have alumni tents set up during Homecoming weekend. J. Dunston stated that IMAE and ET students could become Saluki Ambassadors to allow for interaction of current students with prospective students. C. Kuhn suggested marketing to prospective students by addressing the four personality types in DISC (dominant, influential, steady, and conscientious).