

**Industrial Advisory Committee
Technology Department
Meeting Minutes: April 27, 2018
College of Engineering
Carbondale, IL**

Present:

IAC members:

1. Shawn Batka, Director of Strategic Supply (Turtle Wax)
2. Shannon Barrett, Champion of Operational Excellence (Jabil)
3. Scott Cunningham, Senior Director, Quality Systems (Global Experience Specialists)
4. Chuck Kuhn, Vice President of Quality and Production Control (Aisin Electronics Illinois)
5. Kent Gouty, Quality Engineer (GM)
6. Ron Milligan, Chief Systems Engineer, retired (Boeing)
7. Jessica Carrillo-Morris, Manufacturing Manager (General Cable)
8. Derek Naylor, Packaging Engineering Manager (Caterpillar)
9. Kyle Snow, Manager of Manufacturing Systems & Industrial Engineering (Aleris International, Inc.)
10. Michael Uphoff, Reliability Engineer (Advanced Technology Services)
11. Bart Welker, Manager of Operational Excellence (Department of Central Management, State of Illinois)

Faculty:

12. Roger Chang
13. Bruce DeRuntz
14. Julie Dunston
15. Ron Parks
16. Tomás Velasco

1. Introduction of Members

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

2. Nomination of New Members – Jim Sheehan, Kyle Snow, Michael Uphoff

Jim Sheehan, Department Head (Continental Tire), Kyle Snow, Manager of Manufacturing Systems & Industrial Engineering (Aleris International, Inc.) and Michael Uphoff, Reliability Engineer (Advance Technology Services) were nominated to join the industrial advisory committee by J. Dunston. *R. Milligan motioned to approve the nominations, seconded by K. Gouty. The motion was approved unanimously.*

3. Approval of Spring 2017 Minutes

Minutes of the Industrial Advisory Committee meeting held on April 28, 2017, were reviewed. *Motion to approve the minutes was made by C. Kuhn, seconded by K. Gouty. Motion was approved unanimously.*

4. Announcements/Events

ASQ Conference	<p>a. T. Velasco announced that the 15th annual ASQ Conference, held the previous day, had around 95 participants. K. Gouty was recognized for sponsoring 6 students at this year’s conference. Emails will be sent out to conference attendees to solicit feedback via a survey link. S. Cunningham recommended providing a list of topics for speakers to choose from. C. Kuhn commented that many students networked with the speakers during lunch. J. Dunston suggested building a networking session into the agenda. Next year’s conference data has been set for Thursday, April 25.</p>
ATMAE Robotics	<p>b. The ATMAE robotics team repeated as national champions at this year’s conference. B. DeRuntz stated that the team also participated in the Midwestern Conference at UIUC and placed 1st in the obstacle course portion and 2nd in the battlebot competition. D. Naylor suggested connecting the robotics team with local high schools and C. Kuhn stated that YouTube videos would be a good way to publicize the activities of the team.</p>
Minor in STEM Leadership	<p>c. B DeRuntz stated that the minor in STEM Leadership was approved last year which formalizes the existing program by providing credit hours to students. Funding through NSF provides scholarships to students majoring in STEM fields and there are currently 20 new recruits from community colleges in the program.</p>
LDP	<p>d. The Leadership Development Program team participated in the Collegiate Leadership Competition at Miami University in Oxford, OH, for the first time this year. SIUC’s team placed 1st in the process division.</p>

SIUC Restructuring Plan

Restructuring	<p>a. J. Dunston presented the proposed restructuring plan for the College of Engineering. Under this plan, the existing Department of Technology would become the School of Applied Engineering and Technology, housing the existing programs in the department along with Technical Resource Management (TRM) and Electronic Systems Technologies (EST).</p> <p>T. Velasco stated that the program change plan for the proposed school must go through two constituency groups for approval: Faculty Senate and Graduate Council.</p> <p>C. Kuhn asked what the KPIs were for the change and what measures would be put in place. J. Dunston responded that the goal was to increase enrollment and foster innovation.</p>
---------------	--

Industrial Management and Applied Engineering

Enrollment Data	<p>J. Dunston presented enrollment data for the IMAE and QEM programs from fall 2012 – fall 2017. On campus enrollment has remained steady and online enrollment continues to grow. A few military sites are struggling to maintain viable enrollment numbers. B. Welker suggested tapping into the ROTC program (leadership) and that the GI bill is transferrable to dependents. S. Barrett mentioned NAVAIR (a partnership of higher education institutions and the Navy). The IMAE program has a formal partnership with the Air Force’s AU-ABC (Air University – Associate to Baccalaureate Cooperative). C. Kuhn asked if the online numbers included military personnel who had transferred</p>
Curriculum Review	<p>The IMAE curriculum was presented and recommendations for improvements were requested. Feedback provided was as follows:</p> <ul style="list-style-type: none"> • Include reading of hydraulic/pneumatic schematics, possibly in IMAE 208 (M. Uphoff), R. Milligan commented that this could tie in with the proposed “Robotics & Automation” program and S. Barrett emphasized collaborative robotics. • IMAE 376/476 - integrate APICS certification (D. Naylor), cover risk mitigation as it relates to natural disasters (C. Kuhn) • IMAE 305 – discuss safety procedures (D. Naylor), emphasize safety prevention and referenced the safety pyramid (C. Kuhn), include a safety briefing before each class (J. Carillo-Morris) • IMAE 390 – include price reductions, annual price review and total cost of ownership (C. Kuhn), emphasize overall plant operational costs (K. Snow) • IMAE 470a – incorporate planning for experiments, sampling scenario (C. Kuhn)
Assessment Results	<p>Assessment results were presented by R. Chang. Student outcomes have been identified for the program and appropriate courses are assigned to measure each of the outcomes. Assessment methods are identified and measured within individual courses and tracked for improvement opportunities. C. Kuhn asked what the target % was for each category (does not meet expectations, meets expectations, exceeds expectations) and R. Chang replied that the goal was improvement. C. Kuhn suggested</p>
Continuous Improvement Minor	<p>J. Dunston gave an update on the continuous improvement minor. It has been reviewed and approved by the College’s curriculum committee and will undergo review by the Faculty Senate.</p>

Strategic Planning

Strategic Plan	<p>J. Dunston presented the Balanced Scorecard that the department created as output from the strategic planning process. Members were asked to provide input on strategies to reach targets. The following feedback was provided:</p> <ul style="list-style-type: none"> • Use social media to reach prospective students (C. Kuhn), B. DeRuntz commented that a GA was hired last year to increase our social media/marketing presence • J. Carillo-Morris suggested using LinkedIn and Twitter • D. Naylor recommended using a LinkedIn page for the department to connect with alumni and provide a venue for posting openings, B. Welker emphasized the importance of linking to alumni • C. Kuhn suggested using current students to market the program • D. Naylor stated that providing a list of alumni titles helps prospective students visualize what they can become • C. Kuhn cautioned that controlling content is important, S. Cunningham stated that negative comments can be countered by high volumes of positive postings • D. Naylor commented that the leadership aspects of the program should be highlighted, sets the program apart from others • K. Snow recommended certifications and J. Dunston stated that the department currently offers a lean six sigma certificate, C. Kuhn suggested adding certifications • R. Milligan stated that community college partnerships are key and S. Barrett suggested tying in social media with these colleges • S. Barret recommended micro-credentialing to industry as this is a huge opportunity • J. Carillo-Morris suggesting tapping into the Illinois grant program for investing in the workforce (Man-Tra-Con)
----------------	--

QEM Program Review and Recommendations

QEM Program Review	<p>J. Dunston presented the QEM reviewer report and directed focus to the recommendations section. To increase on campus enrollment, C. Kuhn suggested pitching the program to undergraduate students in other degrees. B. Welker commented that the state of Illinois provides graduate internships. C. Kuhn stated that there may be potential projects at Aisin.</p>
--------------------	---