

**Industrial Advisory Committee
Technology Department
Meeting Minutes: April 24, 2020
Meeting via Zoom**

Present:

IAC members:

- Jim Akers, Quality Manager (Woodward, Inc.)
- Shawn Batka, Director of Strategic Supply (Turtle Wax)
- Nick Baudino, Quality Manager (Caterpillar)
- Chuck Kuhn, Vice President of Quality and Production Control (Aisin Electronics Illinois)
- Ron Milligan, Chief Systems Engineering (Boeing), retired
- Jim Sheehan, General Manager (Radiac Abrasives)
- Kyle Snow, Project Engineering (John J. Pershing VA Medical Center)
- Bart Welker, Manager of Operational Excellence (Department of Central Management, State of Illinois)

Faculty:

- John Cooper
- Mike Costello
- Bruce DeRuntz
- Julie Dunston
- John Legier
- Bryce Parks
- Ron Parks
- Tomas Velasco
- David Williams

1. Introduction of Members

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

2. Approval of Spring 2019 Minutes

Minutes of the Industrial Advisory Committee meeting held on May 3, 2019, were reviewed. *Motion to approve the minutes was made by R. Milligan, seconded by R. Parks. Motion was approved unanimously.*

3. Announcements/Events

Higher Learning Commission	a. In February, a team of peer reviewers representing the Higher Learning Commission (HLC) visited the SIUC campus as part of the institution's reaccreditation process. Three open forum sessions were held and widely attended by campus faculty, staff and students. The final feedback report and reaccreditation status will be communicated to SIUC sometime in May.
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SAET	b. Effective July 1, 2019, the Department of Technology officially became the School of Applied Engineering & Technology (SAET). This change occurred as part of a larger campus-wide reorganization. The initial timeline for finalizing new Schools/Colleges was July 1, 2020. However, this may be delayed due to COVID-19.
Faculty Hire	c. T. Velasco, Chair of the Faculty Search Committee, indicated that 4 candidates participated in campus interview for a tenure-track position in the School. A final candidate was selected and accepted the position, Dr. Faycal Znidi. He will be joining the School starting in the fall 2020 academic year.

4. Enrollment Numbers

Enrollment	<p>J. Dunston presented enrollment numbers/trends for the IMAE program by site (on campus, off campus, and online). Daley College (one of the City Colleges of Chicago) is the newest site, with the first classed offered in fall 2019. J. Cooper is a full-time instructor at Daley and has an office housed within the new Manufacturing Technology and Engineering Center (MTEC). J. Cooper stated that the Dean of Advanced Manufacturing at Daley is working to align existing AAS programs with the IMAE curriculum. This includes adding College Algebra and Physics courses to manufacturing-related associates degrees to assist students in the transfer to the IMAE program. An IMAE community has also been established by J. Cooper to provide current students and alumni with networking opportunities and a forum to share employment opportunities and other information.</p> <p>J. Dunston indicated that enrollment increases are a direct result of advisors/staff establishing partnerships with community college instructors & advisors to inform them about our program and to work closely with them to transition students into the IMAE bachelor’s program.</p> <p>C. Kuhn suggested providing bullet points for best practices in recruiting/advising to share with others. B. Parks emphasized the importance of standard processes in online course delivery.</p> <p>B. Welker highlighted the significant decrease in campus enrollment over the last decade. He emphasizes that the University needs to pursue other avenues for recruiting students, such as international markets.</p> <p>In addition to IMAE courses taken by students in the major, there are other ways in which SAET can increase credit hours generated. Each semester, students from other majors (such as Management, Economics, Aviation Technologies, Mechanical Engineering) enroll in IMAE courses; typically, Six Sigma Green Belt, Lean Manufacturing, Project Management, and Supply Chain. Other opportunities for generating credit hours is through the Professional Development Series (Lean Six Sigma series), Continuous Improvement minor, and minor in STEM Leadership.</p>
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5. Curriculum Updates

IMAE 375/476	<p>The existing curriculum, including course descriptions were provided to the committee. Changes to the curriculum, approved by the IAC via email communication last fall, include the following: replacing IMAE 376 Supply Chain Operation & Logistics with IMAE 375 Production & Inventory Management, merging IMAE 376 with IMAE 476 Supply Chain Design & Strategy. IMAE 476 is renamed Supply Chain Management.</p> <p>S. Batka mentioned that a significant amount of the content in IMAE 476-375 aligns with APICS's CPIM (Certified in Production & Inventory Management) exam. The first part of the exam deals with supply chain basics and the second part of the exam covers strategic management/master planning of resources, scheduling/planning/execution/control of operations.</p> <p>R. Parks indicated that IMAE 375 will focus on internal operations while IMAE 476 will focus on external operations.</p>
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6. Proposed Curriculum Changes

IMAE 450	<p>J. Legier proposed integrating the Project Management Body of Knowledge (PMBOK) into the IMAE 450 Project Management course. This would prepare students to sit for the Certified Associate in Project Management (CAPM) exam. PMBOK content has been adopted in the TRM 470 Project Management course that is a requirement for Technical Resource Management students. TRM 470/IMAE 450 course sections were merged in spring 2020 to improve efficiency in course delivery.</p> <p>A new textbook (Schwalbe) for IMAE 450 that aligns with the PMBOK was proposed by J. Legier. B. DeRuntz asked if the textbook had resources that would integrate with our current learning management system, D2L. J. Legier confirmed that it does. C. Kuhn recommended utilizing case studies and being flexible in using project management tools since every organization adopts a different approach. J. Akers agreed that the course should be designed around PMBOK as this is the industry standard. S. Batka stated that the ability for students to attain certifications is beneficial to them.</p>
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7. QEM Accelerated Masters

QEM	<p>Starting summer 2019, students graduating from the IMAE program may be eligible to enroll in the QEM accelerated master's program. Requirements for enrollment in the program include a B.S. in IMAE and a GPA of 3.5 or higher in IMAE coursework.</p>
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8. PhD Concentration in Industrial & Quality Engineering

PhD	T. Velasco stated that there are currently 7 students enrolled in the Industrial and Quality Engineering (IQE) concentration within the Engineering Sciences program. This semester, our first PhD student successfully defended her dissertation and will be graduating in May.
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