Industry Advisory Board Meeting Minutes  
WSU Industrial and Systems Engineering  
December 1, 2010

Meeting attendees present shown in **Bold:**

**IEAB Board Members:**
Amelili, Vanda – WSU - IE Masters Student  
Ayoub, Siraj – Program Manufacturing Leader, Faurecia  
Clarke, Marcus – Associate Director of Education, Focus HOPE  
Donelko, Joe – Senior Manager, AME Process, Chrysler  
Dotson, Norman – WSU – IE Undergraduate Student  
Evans, Joe – Lean Operations Supervisor, Die Tronik  
Harris, Joi – Director of Planning & Control, DTE Energy  
Hill, Cam – Head of Assembly & Stamping, Chrysler  
Leonard, Rich – Industrial Engineering, UPS  
Loudon, George – Mfg. Engr., Automotive Components Holding  
Phillipart, Nancy – President, NLP Solutions, LLC  
Reeves, Julius – Product Development, General Motors  
Shaslo, Mike – DOM Forward Model Opt., Ford Motor Company  
Stevanovic, Zlatko – Industrial Eng. Manager, General Motors  
Szopo, Doug – Executive Director, GPP&S, Ford Motor Company  
Vogel, Bill – Account Executive, HP  
Wessman, Brooke – Project Mgr. Radiology, HFHS  
Yu, Susan – Veterans Administration Hospital  
Zenk, Chelsea – GMPS, General Motors

**WSU Faculty and Staff:**
Monplaisir, Leslie – WSU ISE Associate Prof., Department Chair  
Ellis, Darin – WSU ISE Associate Prof., Assoc. Dean Acad. Affairs  
Chelst, Kenneth – WSU ISE Professor  
Murat, Alper - WSU ISE Assistant Professor, UG Assoc. Chair  
Kim, Kyoung-Kim - WSU ISE Assist. Prof., M.S. Program Officer  
Yang, Qingyu – WSU ISE Assistant Professor  
Gluesing, Julia – WSU ISE Research Professor  
Riopelle, Ken – WSU ISE Research Professor  
Leman, Jerry – WSU ISE Executive Coordinator OMLP  
Pichette, Dean – WSU ISE Senior Lecturer  
Evans, Gail – WSU ISE Academic Advisor  
Cole, Katora – WSU COE Director of Development  
Radden, Christie – WSU ISE Special Projects Coordinator  
Johnson, Jay – WSU ISE EMMP, MSEM & MINDSET Coordinator  
Stilwell, Ken – WSU Dept. Anthropology Research Assistant  
Nanas, Elizabeth – WSU Dept. Anthropology GTA

Welcome and Kick Off
Welcome/Introductions: Jerry Leman welcomed the attendees and attendees introduced themselves.

1. **Industrial and Systems Engineering Update**

Announcements/Updates: Dr. Monplaisir presented news and updates on ISE department and faculty. New ISE UG Chair; Department Name Change; College of Engineering Search for Dean; Industrial Systems Engineering Student/Alumni Event; Industrial Systems Engineering Department Research; New faculty Dr. Qingyu Yang joined ISE; Research Funding (about $200,000 per year per faculty); New NSF Center for E-Design.

2. **Proposal to appoint IEAB Chair**

Vote IEAB Chairperson: Dr. Monplaisir nominated Nancy Phillipart as the IEAB Chairperson. All IEAB meeting participants agreed. Dr. Monplaisir recommended that the Chairperson act as a liaison between the Board and the ISE leadership in moving forward to examine and/or make changes to the vision and mission of the ISE.

3. **Undergraduate Program Review**

Announcements/Updates: Dr. Murat briefed the committee on the upcoming ABET accreditation review in 2012. Dr. Murat summarized the review process and the actions ISE is taking for the preparation.

Discussion- Program Educational Objectives: Dr. Murat announced the modifications proposed for the ISE program educational objectives (ABET required statements describing expected accomplishments and professional status of ISE graduates 3-5 years beyond the baccalaureate degree). Dr. Julia Gluesing opened the discussion of the above proposed changes by the IEAB members. The following were discussed by the IEAB board and ISE faculty:

- **Elimination of the “Global” from the last program educational objective:** IEAB board emphasized the need to have at least one course exposing students to the importance of global industry and that students need exposure to cultural and logistical (e.g., time zone differences) issues before they graduate. The ISE faculty explained that the department has global focus in several courses and programs as well as in faculty research. Some examples stated are Dr. Gluesing’s work with Tsinghua University in China, the
Ph.D. Global Executive Track (GET); Dr. Gluesing’s work to build “global issues” more broadly into the undergraduate curriculum; and students’ opportunity to work within diverse environment during their one-year capstone research project. Dr. Gluesing proposed that the ISE consider changing the objective to read: ‘...high performance teams in diverse environments.’

- **Program Objective Timeline, Goals, and Assessment:** The IEAB members stated that 3-5 years stipulation in the program educational objective statement is not clear as a graduate is expected to know certain skills right after graduation and other skills are attained over time. For instance the graduates should be able to apply standard IE tools and techniques within the first year upon their graduation. Dr. Murat explained that the 3-5 year goal is dictated by ABET. The ISE faculty unanimously agreed that there are some skills that students should be able to demonstrate immediately while other skills develop over time—depending on the difficulty of the objective. Dr. Monplaisir added that the ISE has control to define the specifics of what ISE students will do even though the 3-5 years that they need to demonstrate their skill reflects ABET wording. Second issue was the demonstration of the attainment of these objectives and who would be verifying (students or employers). Dr. Monplaisir and Dr. Murat discussed assessment as including graduating senior student surveys and interviews as well as employer surveys. Another concern raised was related to students becoming “experts” versus “authority”. Another issue raised addressed preparation of students to transfer their knowledge to others and their training and practice opportunities for leadership. Dr. Monplaisir stated that the year-long capstone project is the only place where these issues are currently being addressed in an effective manner. Dr. Gluesing suggested that some of these concerns could be built into the internship program.

- **Other Inputs:**
  - **Change Management:** IEAB board members expressed the need for including change management which is especially important in healthcare where the engineering design projects require integrating and managing the cultural and organizational change. Dr. Gluesing noted that introducing change within a complex sociocultural system requires students to understand values and beliefs and the contexts of the systems being changed. She further added that students must take a course in “foreign cultures” to graduate from WSU and the course Business of Anthropology (an upper level course developed jointly by the ISE and Dept. of Anthropology) meets the WSU graduation requirement and has very high enrollment by engineering students. Dr. Gluesing asked the IEAB what other challenges that students will have to face in designing and managing sociocultural systems and what skills our students will need to face those challenges. Dr. Monplaisir suggested that the ISE closely review the required courses to consider replacing one of these required courses with The Business of Anthropology.

  - **Writing Skills:** IEAB board members expressed the need for ensuring our program graduates have excellent technical and non-technical report writing skills. ISE faculty discussed that there are several opportunities for students to work on writing within the context of their required and elective courses. ISE faculty noted that the ISE will closely review the curriculum courses to ensure that both writing training and practice opportunities will be sufficiently addressed.

**Announcement/Updates:** Jerry Leman provided an update on the success of the Operations Leadership Management Program

4. **PhD and Global Executive Track**

**Updates:** Dr. Gluesing presented the Global Executive PhD Track and provided an update.

5. **Masters Program Review**

**Updates:** Dr. Kim provided updates on the masters programs and Dr. Chelst presented updates on EMMP.

6. **Wrap Up/Member Input/Discussion**

The meeting was adjourned at 1 pm after tentatively agreeing for next IEAB meeting date in the March 2011 timeframe. It has been determined that the next IEAB Board Meeting will be held, Wednesday, April 13, 2011. Please mark your calendar.
Appendix:

Industrial Engineering Advisory Board (IEAB) Meeting

Manufacturing Engineering Building – 2nd Floor Conference Room

Wednesday, December 1, 2010    10:00 AM – 1:00 PM

Agenda - Meeting #7

- Welcome and Kick Off
  - Introduction of Attendees
  - Industrial and Systems Engineering Update
  - Proposal to appoint IEAB Chair

- Undergraduate Program Review
  - ABET Review for 2012
  - Program & Educational Objectives
  - Operations Leadership Management Program

- PhD and Global Executive Track

- Walking Project Review & Lunch
  - PhD Candidate Presentations

- Masters Program Review
  - MSIE/M SM
  - EMMP

- Wrap Up/Member Input/Discussion

- Proposed Next Meeting Date - March 2011

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