

# **PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY**

## **Faculty Senate Minutes**

**March 9, 2004**

**FS03-6**

Representatives in Attendance: Carmen Boje, Bill Conrad, Elaine Cooney, Jan Cowan, M. El-Sharkawy, Andrew Hsu, Chul Kim, Keith Kovach, Armando Pellerano, Ken Reid, Joy Starks, Bill Watson

Guests: Doug Acheson, Ed Berbari, Marvin Needler, John Schild, Dean Yurtseven

Senate President, Bill Conrad, call the meeting to order at 11:05 a.m.

The minutes from February 10, 2004, were motioned for approval by Elaine Cooney and the rest of the faculty agreed. Minutes will be emailed to Faculty Senate and no copies will be distributed at the meeting.

### **Administration Report**

Dean Yurtseven presented the Administration Report (*Attachment 1*).

### **Academic Programs:**

The Interior Design BS degree was approved by the Indiana Commission on Higher Education on February 13, 2004.

IUPUI Campus Day was held on Sunday, March 7, 2004 and was well attended with around 4,000 in total attendance (larger attendance than last year).

On February 7 and February 14, our engineering faculty and administrators joined the Butler University faculty to interview several students for scholarship awards. Students are admitted to the EDDP program. Our school is trying to do something similar to Butler's scholarship program on March 13, 2004 and invite 14 students and their families for interview who were offered scholarships for 2004-05.

### **Budget Planning:**

On March 3, 2004, Dr. Yurtseven was given 45 minutes to speak on our budget needs for 2004-2005 and beyond. The Dean advised the group on various items, including: our school will need additional resources to double their efforts in teaching and learning, research and civic engagement; the school is no longer competitive in faculty and staff salaries; there are new BS programs in Interior Design Technology and other programs in CGT, CIT and OLS that need to increase faculty positions to keep up with the growth; new Ph.D. programs need funding to build an infrastructure. The Dean advised Faculty Senate we plan on having the ET basement space for our use beginning around January 2005. There is also talk of a new building to be built south of LD that will be an L shape going along New York Street. This building will be ½ funded by Medicine and Science, Business, Science and Informatics and our school. The construction for this building should begin in 2008 and will be called the IUPUI Innovation Center. You can see the complete budget presentation information from Dean Yurtseven at G:\COMMON\Budget Info Fac Staff, and the title of the document is 2004-05 Strategic Planning and Budgeting.

### **Faculty News:**

There was good representation from our school for the Purdue University Discovery Park presentation on February 26, 2004.

## **Events:**

Joy also mentioned the Bridge Building Competition and BPA Contest that took place last Sunday, February 29<sup>th</sup>. These were very well attended, around 100 for the Bridge Building competition and 400 for the BPA Programming contest.

On February 12, 2004 Chancellor Bantz presented his first IUPUI report to Community at the Marriott Hotel downtown. He hopes to double our BS graduates and research by 2010.

On February 14, 2004 Paula Jenkins sponsored a Wine Exchange program at her home for the School Alumni Board. There were around 80-90 alumni and family members who attended. The School Alumni sponsor part time student and part time faculty awards.

National Engineer's Week was celebrated February 23-29, 2004 with many activities during the week.

On February 27, 2004 the ET student lounges on the second and third floors were dedicated as the Robert Wakefield Memorial Lounge to honor him and his family's generous donation to the school. Bloomington likes the green design used for these lounge areas and is currently looking at the lounge area.

A Donor Wall on the second floor of the ET building was also unveiled on February 27, 2004.

Ed Berbari asked the Dean if there was any response from the Budget Committee when he gave his speech on March 3 regarding space and resources for the school. The Dean advised he did not feel anyone would get extra funding this year. The Dean did inform Faculty Senate the trustees are meeting soon to talk about next years tuition rates. The Dean also advised Bloomington is on the RCM model for their budget but it is not working well for them. The president does not have large discretionary funds for his needs on the RCM model.

*For any further details of the Dean's report see attachment I.*

### ***Dean's List Issue***

Bill Conrad reported information to Faculty Senate for Ken Rennels regarding grades and the dean's list issue. He advised the school has approximately 1,000 out of 2,800 students who have a GPA of 3.5 or higher. Bill advised this may not be the best time to make any changes to the dean's list with this many students reaching 3.5 GPA and above. Bill advised Faculty Senate the school may want to look into grading guidelines.

### **Constitution & ByLaws Committee – No Report**

#### **Graduate Education**

John Schild distributed handouts to Faculty Senate from the Graduate Education Committee. The items in the handout were discussed at the Graduate Education Committee meeting on February 19, 2004 and the committee is now seeking Faculty Senate and Dean Yurtseven's approval of its recommendations.

The Graduate Education Committee discussed the 5 year BS/MS program under consideration by Mechanical Engineering which it supports and approves. ECE is considering a similar program. The Graduate Education Committee would like the Dean or Faculty Senate to encourage ECE to take this next step and begin speaking with West Lafayette campus in regards to this combined degree. The committee also feels ECE should be encouraged to utilize the ME document as a model for their BS/MS degree.

*See Attachment 2 for further details.*

There is also discussion under way for an MBA/MS Engineering degree to be proposed jointly with our school and Kelley School of Business. The Graduate Education Committee supports this idea and gave a list of recommendations regarding this degree.

- The committee recommends ECE and ME Graduate Committees and faculty modify an existing list of “approved graduate electives” to include 3 courses from the Kelley School of Business (P501, K501 and K516).
- The committee assumes that any student enrolling in this program will have a BS in engineering. Depending on the institution the student received their degree from the student may not be prepared for the graduate MBA level study in two areas, elementary statistics and elementary accounting. The Kelley School of Business has identified two of their courses which students can take to fulfill the prerequisites for this new degree. These courses are A501, Financial Accounting and K501, Quantitative Tools for Business. Both are 1.5 credit hour courses and both are available on-line and for self-study.
- The committee also suggests that both schools look at the plans of study once the program has started to make sure it is going in the right direction, and to aid faculty and students with this degree.

*See Attachment 3 for further details.*

The Graduate Education Committee has also been discussing a Master of Science in Technology. There is a document regarding this proposal circulating through various administrative areas to obtain permission to begin the program in our school. There is an assessment of this proposal on the attached memo from the Graduate Education Committee.

*See Attachment 4 for further details.*

These items from Graduate Education were presented to Faculty Senate with no discussion.

Student Affairs – No Report

Budgetary Affairs – No Report

Faculty Affairs – No Report

Grievance Board – No Report

Nominations Committee

Doug Acheson gave an overview and demonstration of the online nominations website. He advised everyone in Faculty Senate to encourage all faculties in your department to participate in the election process. There are elected and appointed committees that need positions filled. Doug will send the URL to faculty soon. The Nominations Committee hopes the web version will get better response than last years paper ballot. The election process will be open for 2-3 weeks. Doug would like to continue serving on this committee in the future to facilitate the nominations process and encourage faculty to be involved.

There was mention that not all faculties on the Unit Promotion Tenure Board are tenured and this will be looked into for the future.

Resources Policy – No Report

Educational Policy – No Report

IUPUI Faculty Council

Ed Berbari reported on Faculty Council. There was a proposed revision/amendment to the Faculty Council Constitution and Bylaws pertaining to the service of the immediate past presidents as an ex-officio non-voting member of the Executive Committee and Council (advisory capacity). Student Affairs Committee is also proposing a revision to the Code of Conduct and to synthesize ours with Bloomington's code.

There was discussion on the honor code issue; Faculty Council would like a uniform policy among all the campuses.

Budget hearings are underway and Chancellor Bantz thanked the various committees for their time and efforts. On March 23 there will be a public hearing on tuition in higher education, further details will be out soon.

President Adam Herbert's inauguration will take place on Thursday, April 15, 2004 at 3:00 p.m. at IUB.

President Mary Fisher encouraged all faculties to fill out an inventory/survey of faculty perspective on the first year experience from Penn State if they received one.

The food/restaurant issues have been resolved (or dropped) and the renovation at University College on their food court offerings has reconvened and the businesses should be open April 1st.

For details on the above information and all other Faculty Council meeting notes please look at their website: [www.iupui.edu/~fcouncil](http://www.iupui.edu/~fcouncil).

Purdue Intercampus Faculty – No Report

Purdue Technology Senate – No Report

Old Business

Marvin Needler mentioned ideas about renaming the title of the School. The tenure committee felt it was best if everyone used the same name in their documents. At this time everyone decided to stay with E&T.

New Business

A motion was passed to remove Dr. Afolabi as the Chair of the Constitution & Bylaws Committee since he cannot serve anymore. The motion was passed. Doug advised Faculty Senate that Jamie Workman would like to be added to the committee and serve as the chair. All agreed with this addition and change.

Bill showed everyone the current logo for ET via web and a handout. There was some discussion about the color scheme of the logo and whether each department has a certain color for their logo. Armando felt each department has their own color. Doug advised websites are currently being revised and the logo should be used on the websites. Joy Starks and Bill Watson made a motion to accept the logo, all agreed. Bill Conrad will speak with Adam Siurek about getting this logo on the G drive and ask Adam if he is aware of a department/color scheme for the logo.

Bill reminded Faculty Senate that CIT and ECET departments used online evaluations last semester. After looking over the online evaluations it was noted there were very few votes cast for Outstanding Faculty Member. They are presently working on the system so a student has to cast a vote for a faculty member.

The meeting adjourned at 12:00 noon.

The next Faculty Senate meeting is Tuesday, April 13<sup>th</sup>, 11:00 a.m. in SL 165.

## *Attachment 1*

### **Dean's Report for March 9, 2004 Faculty Senate Meeting**

#### **Academic Programs**

- The Indiana Commission on Higher Education approved Interior Design Technology-BS degree proposal at its February 13, 2004 meeting.
- IUPUI Campus Day was held on Sunday, March 7, 2004. According to campus numbers, there were approximately 1100 prospective students on campus and with family and friends the total number exceeded 4,000. This is larger than last year's crowd. Terri Talbert Hatch and her staff worked hard to organize our participation and many faculty members, staff, and administrators from our School joined to make the Campus Day a success.
- On February 7 and February 14, our engineering faculty and administrators joined the Butler University faculty to interview several students for scholarship awards. Students are admitted to the EDDP program.

#### **Budget Planning**

- On March 3, 2004 it was our School's turn to present the strategic priorities and budget planning for 2004-05 and beyond. The main points of our presentation were:
  - Our School may not be able to double its efforts in teaching and learning, research, and civic engagement areas without additional resources.
  - The School is no longer competitive in terms of faculty and staff salaries as compared to our peer institutions and industry.
  - New BS degree program in Interior Design Technology and growing programs such as CGT, CIT, and OLS need faculty positions to retain the academic quality and meet the student demands.
  - Starting Ph.D. programs in electrical and computer engineering and mechanical engineering as well as the new MS program in technology require new base funds to build an infrastructure.
  - Our short-term space need will be met with the renovation and occupation of ET Building basement. In the long range, however, the School supports the concepts of joining Medicine and Science to occupy a floor in one of the new School of Medicine Buildings and also joining Business, Science, and Informatics for a new IUPUI Innovation Center.A copy of the presentation will be available on the G drive for all faculty and staff to review and comment.

#### **Faculty News**

- Purdue University Discovery Park directors visited IUPUI on Thursday, February 26, 2004 and made presentations to a group of more than seventy IUPUI faculty members, mostly from our School and the School of Science. We hope that this event will lead to several research and scholarship collaborations between IUPUI and Purdue WL faculty and researchers. IUPUI group of researchers was invited to visit Purdue, WL in the near future.

#### **Events**

- Chancellor Bantz presented his first IUPUI's Report to the Community on February 12, 2004 at Marriott Hotel downtown Indianapolis. He stressed the Power of Two as his vision for IUPUI to grow the number of BS graduates, the research income, and the numbers of students in internship and co-op positions by a factor of two before the year 2010. His report highlighted patents owned

by our faculty members and the national ranking of our technology programs in terms of student size and the number of total BS graduates and the number of women graduates with BS degrees.

- On February 14, 2004 Paula Jenkins at her home organized the second Wine Exchange program for our School Alumni Board members and their families.
- On February 27, 2004 we dedicated the student lounges on the second and third floors of the ET Building as the Robert Wakefield Memorial Lounge to honor him and his family who generously donated to establish funds for the student lounges.
- On the same day, we also unveiled a Donor Wall on the south wall of the second floor of ET Building to recognize the individuals and the corporations for their long and sustained philanthropic support of the School over the years.
- National Engineers' Week was celebrated during February 23-29, 2004. Our School had several activities during the week. On Monday, engineers from Kelley Racing, Herdez Competition, and Andretti Green Racing hosted *Racing to Career* session. On Tuesday, representatives from Cummins Corporation talked to our students about their career experiences and some movie clips on engineers were shown to highlight the few engineers in Hollywood. On Wednesday, Annual Chili Bowl was held to familiarize students with different students organizations in the School. On Thursday, Society of Women Engineers IUPUI Student Chapter invited four engineers from business and industry about the interview process. On Friday, IEEE local chapter helped us with the Friday Lab Experience project with high school students.
- We closed the National Engineers Week on Sunday, February 29 with *9th Annual Bridge Design Competition* sponsored by ACEC, NSPE, ASCE, and the Department of Construction Technology. More than hundred sixth, seventh, and eighth graders competed in the event.
- The Indiana Department of Education and Business Professionals of American (BPA) sponsor district and then state competitions in several business related disciplines. High school students who scored in the top five at their district level are invited to the BPA state competition. More than 400 students and their teachers attended the two-day state competitions. Students competing in office applications, integrated business applications, Web design, and Computer Programming competed at IUPUI on Sunday, hosted by the CIT department. Others competed at the Marriott downtown. The first place winners in each of the three programming languages (Java, VB, and C++) have been offered scholarship money to attend our School. The top three winners in each category will move on to the national competition in Ohio in April.

***ATTACHMENT 2***

**TO:** DEAN YURTSEVEN and the FACULTY SENATE, SCHOOL OF ENGT  
**FROM:** GRADUATE EDUCATION COMMITTEE, SCHOOL OF ENGT  
**SUBJECT:** RECOMMENDATIONS ON THE 5 YEAR BS/MS PROGRAM IN ME  
**DATE:** 12/2/2004  
**CC:** WILLIAM CONRAD, FACULTY SENATE PRESIDENT

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On 2/19/04 the Graduate Education Committee discussed the five year combined BS/MS program being proposed by our Department of Mechanical Engineering. The Committee fully supports and approves of this educational venture. We ask that the Dean consider and the Senate discuss the following recommendations:

- 1) The ECE Graduate Committee discussed implementing a similar program on 2/17. However, formal discussions with the ECE Steward Department have yet to occur. We ask that the Dean and the Senate encourage the ECE Department to begin the process of developing this combined program and, as soon as possible, open dialogue with the Steward Department on the West Lafayette campus.
- 2) The Committee respectfully suggests that the Dean and the Senate strongly encourage the ECE Graduate Committee to utilize the ME document as a model for instituting a combined 5 year BS/MS degree in ECE.



### **ATTACHMENT 3**

**TO:** DEAN YURTSEVEN and the FACULTY SENATE, SCHOOL OF ENGT  
**FROM:** GRADUATE EDUCATION COMMITTEE, SCHOOL OF ENGT  
**SUBJECT:** RECOMMENDATIONS ON THE JOINT MS/MBA PROGRAM  
**DATE:** 12/2/2004  
**CC:** WILLIAM CONRAD, FACULTY SENATE PRESIDENT

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On 2/19/04 the Graduate Education Committee discussed the MBA/MS engineering degree being jointly proposed by our School and the Kelly School of Business. While the Committee fully supports and approves of this joint educational venture, we ask that the Dean consider and the Senate discuss the following recommendations:

3) To streamline the management of the joint program and to help clarify the requirements to participate in the MS engineering portion of the program, the Committee recommends that both the ECE and ME Graduate Committees and faculty modify the existing list of “approved graduate electives” for the MS Engineering degree in their respective departments to include the following three courses from the Kelly School of Business: P501, K501, K516. Once these courses are included in the approved list management and oversight of the joint program could be as simple as stating the student must adhere to “existing” requirements for the MS Engineering degree.

It is our assumption that any student enrolling in this program will have at least a BS in engineering. If not, they will need to fulfill a considerable number of prerequisite courses in order to be prepared for the MS Engineering degree program. Depending upon the undergraduate institution, this BS engineering degree may not have prepared the student for graduate MBA level study in two specific areas, elementary statistics and elementary accounting. Students from our School will have had sufficient exposure to statistical analysis to satisfy this requirement. In general, engineering students will not have any exposure to accounting. The Kelly School of Business has explicitly identified two courses that our MS engineering students can take to fulfill all prerequisites to register for the MBA graduate courses. These are **A501** - Financial Accounting & Reporting and **K501** - Quantitative Tools for Business. Both are self-paced 1.5 hour web-based introductory courses; see <http://kelley.iupui.edu/evemba/Prerequisites.cfm> for more details. It is recommended that a cautionary statement to this effect be included in any program announcement and advising materials.

4) It was recommended that once the program gets under way that both Schools revisit the recommended plan of study in order to foster further cooperation between faculty and students. In its present form the student will acquire academic training in both disciplines, but a meaningful integrative experience is lacking. In practice, this could be as simple as the coordination of two 3 hour courses in the final semester; an MBA course covering development of a business plan for product development and marketing, along with a 3 hour project course in engineering where such a product is actually designed and a prototype fabricated. Under a team model, such coordination could serve as an excellent small business model.

***Attachment 4***

**TO:** DEAN YURTSEVEN and the FACULTY SENATE, SCHOOL OF ENGT  
**FROM:** GRADUATE EDUCATION COMMITTEE, SCHOOL OF ENGT  
**SUBJECT:** COMMENTS REGARDING THE PROPOSED MASTER OF SCIENCE IN TECHNOLOGY PRESENTLY UNDER CONSIDERATION  
**DATE:** 12/2/2004  
**CC:** WILLIAM CONRAD, FACULTY SENATE PRESIDENT

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For some time now the Graduate Education Committee membership has discussed in an informal matter the issue of a Master of Science in Technology. A document describing this program has been developed. This document is currently circulating through the administrative processes in order to obtain the limited authority to administer this program in our School and on the IUPUI campus. A copy of that document is available to Senate members for review. Below is a brief assessment of the proposal:

1. The structure of the program is entirely in line with existing Master level graduate study in technology programs on the West Lafayette campus and consistent with the academic mission of our School.
2. Adequate attention has been given to management and administrative control and oversight of the program on the IUPUI campus.
3. An adequate suite of graduate level courses are now available. However, implementation of a mature graduate program may require additional course offerings and such development may require additional faculty hires (fulltime, part-time, lecturers, etc.)
4. Procedures are in place for oversight of admission standards either through documentation of prior technological study, academic performance and/or GRE scores.
5. This will require the formation of a Graduate Education Committee to oversee administration and growth of the Technology graduate program. This will require a change in our bylaws.
6. Formal restructuring of the current Graduate Education Committee to reduce (or eliminate) the participation of Technology faculty will require a change in our bylaws.

It is the opinion of the Graduate Education Committee Chairman (i.e. not discussed at the committee level) that it would be prudent to consider some level of committee cooperation between the Engineering and Technology programs at our School. At this time we do not need yet another committee to oversee graduate education (i.e. a committee that would supercede the individual committee for graduate education in the engineering and technology graduate programs.) Simply ensuring that each committee has cross membership of at least one or two faculty members from the other committee should be adequate to keep the lines of communication open. For matters requiring the attention of both committees, ad hocs could be formed.