

Minutes  
May 9, 2000  
FS99-8  
Faculty Senate Meeting  
PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY, IUPUI

Approved September 12, 2000

Representatives in attendance: Yaobin Chen, Liz Coles, Bill Conrad, M. El-Sharkawy, R. Nalim, Marv Needler (for Rich Pfile), R. Pidaparti, Ken Reid, Andy Schaffer, Joy Starks, Ed Sullivan, A. Ungan, Harriet Wilkins, Charlie Yokomoto, J.E. Zecher.

Guests: David Bostwick, Pat Fox, Nasser Paydar, Ken Rennels, Oner Yurtseven.

The meeting was called to order at 11:05 a.m. and Bill Conrad thanked David Bostwick for presiding at the April meeting.

The agenda was adopted and the minutes of the April 11, 2000 meeting were approved.

Dean Oner Yurtseven, presented the Administration Report, *Attachment I*. A draft of the school's 2000-03 Strategic Plan was presented for senate approval. The senate voted to endorse and support the draft *Attachment II*.

Reports of Standing Committees

Educational Policy

David Bostwick, chair, requested that departments altering degree requirements report changes to the Educational Policy Committee. The committee will in turn report these changes to the senate as information only.

The committee recommended for senate approval the following new course requests:

CPT 307	Data Communications (4 credits)
CPT 336	Data Communications Lab (3 credits)
CPT 410	Information Technology Ethics and Leadership (3 credits)
INTR 198	Topics: Interior Design (1 to 3 credits)
INTR 298	Topics: Interior Design (1 to 3 credits)
MET 101	Introduction to Mechanical Engineering Technology (1 credit)
ME 430	Power Engineering (3 credits)

Two CPT courses will be eliminated. CPT 307 and 336 will replace these courses in the curriculum. At the recommendation of the Assessment Committee, CPT 410 is being developed for CPT majors. INTR 198 and 298 are exploratory courses for non-INTR majors. MET 101 is a learning community type course being developed for UC students.

Paperwork for ME 403 was submitted, so the course could be validated and placed on the books.

The senate approved the six new course requests.

The committee recommended for senate approval the following course change requests:

CPT 286	Operating Systems and Administration (3 credits)
CPT 303	Communication Security and Network Controls (3 credits)
CPT 320	Quantitative Analysis (3 credits)
CPT 362	Object Oriented Programming (3 credits)
CPT 402	Design and Implementation of Local Area Networks (3 credits)
CPT 440	Communication Network Design (3 credits)
ENGR 196	Introduction to Engineering (3 credits)
ENGR 197	Introduction to Programming Concepts (3 credits)
MET 340	Piping and Plumbing Design (3 credits)

A realignment of CPT course numbers and prerequisite changes necessitated the CPT course change requests. The Freshman Engineering courses (ENGR 196 & 197) are being modernized. MET 340 had a prerequisite change.

The senate approved the nine course change requests.

The committee recommended the following two policies for approval.

#### Policy #1

Prior to scheduling any variable title/variable credit course the department chair or other designated department representative must present sufficient information to the Associate Dean for Academic Programs to answer all essential questions about anticipated outcomes and/or methods to be used for assessment that are appropriate and necessary to obtain the Associate Dean's approval. This is to be done "each time" a variable title/variable credit course is offered.

Much discussion followed on the policy and suggestions were made on the removal of certain words (all) and phrases (essential questions). A member of the senate noted that a policy very similar to Policy #1 was presented and defeated at the November meeting. The vote was taken and Policy #1 was defeated. The senate recommended deferring this item to the new President for further work.

#### Policy #2

All non-traditional course offerings must be reviewed in advance with the Associate Dean for Academic Programs. Prior to obtaining approval to schedule any non-traditional course offering, the department will be expected to present a plan for assessment and/or evaluation to demonstrate that the academic quality between the proposed plan and the existing mode of instruction are at least equivalent. The Associate Dean and the Department Chair will agree in advance on this procedure.

Non-traditional refers to courses not scheduled during the regular semester time frame for example, Internet courses, 1-2 week courses, and weekend only courses. Question is whether the academic quality of some of these courses is the same as the way the course was originally designed. Is the course equivalent to a traditional course? A vote was taken and Policy #2 passed.

#### Resource Policy Committee

Ken Rennels, chair, announced six faculty members received School Faculty Development Awards as noted in Dean Yurtseven's report.

#### Reports of Representatives

##### IUPUI Faculty Council

Charlie Yokomoto reported on the May 4, 2000 meeting. IUPUI will begin a massive TV ad campaign in hopes of increasing interest in the university. Applications for admission to the university are down. The University Faculty Council passed the inter campus transfer policy. It was announced that Purdue President Steven Beering is retiring.

##### Council on Undergraduate Learning

David Bostwick reported on a discussion at the last meeting where the Dean of Liberal Arts and the Dean of Science are in favor of developing core curriculum courses. This is topic is in the talking stage but could increase the number of credit hours required to receive a degree.

##### Undergraduate Research Opportunity Program Committee

Ken Rennels reported the grant deadline has been extended to August 1, 2000. Information regarding proposal guides may be found at <http://www.urop.iupui.edu/call.html>.

##### Purdue Technology Senate

Marv Needler, ET's representative, reported that the Purdue Senate has not met in several months.

##### Other Business and Announcements

Bill Conrad inquired if the senate should continue to meet in May? Harriet reported the Constitution and Bylaws required the senate meet September thru May.

Bill announced that four individuals will interview for the Associate Dean for Industry Relations position. Faculty were encouraged to attend their presentations and resumes will be made available upon request.

The meeting adjourned at 12:10 p.m.

## Attachment I

### Dean's Report for May 9, 2000 Faculty Senate Meeting

#### Academic Programs

IUPUI's Commencement Ceremony will take place on May 14, 2000 (Mother's Day again) at RCA Dome. We have 248 AS degree candidates, 104 engineering and 200 technology BS degree candidates, 34 MS degree candidates, and 45 certificate candidates for May and August graduation.

Our school had also nominated Walter Blackburn to receive an honorary degree the same day. Walter Blackburn has been a long-time friend of the school serving at the department and school advisory boards. He was Vice Chair and Chair of Dean's Industrial Advisory Council during 1998 and 1999 respectively. He will be receiving Honorary Doctor of Letters degree from Purdue University. Reception was held on April 19, 2000 at Lilly House to celebrate Walter's accomplishments and we experienced a very large turnout of friends joining the school.

For the first time, candidates with graduate degrees will have a hooding ceremony in the morning of May 14, also at RCA Dome. Our school will hold post-commencement ceremony in Exhibit Hall E, right after the main ceremony.

Our first articulation agreement with a high school was signed on May 5, 2000. Mooresville High School students can now take TG 106 at Mooresville and they will be given 3 hours of credit if they have a grade of "B" or better, when they are admitted into our school. This is the first such articulation between a high school and our school.

On April 19, 2000, our school signed an agreement for graduate student exchange and articulation with Tunisia. Mr. Kamel Braham, representing the Tunisian Education Commission visited our campus and met with several engineering faculty and representatives.

#### School Strategic Plan for 2000-03

**Attached is the May 2000 draft of the School Strategic Plan for 2000-03. We had started the process of putting the plan together during May 1999. The departments and programs in the school, alumni groups, and industrial advisory groups contributed comments, changes, and additions to the early draft. Our department chairs, deans, and directors endorsed the attached draft for consideration and endorsement of the Faculty Senate.**

#### Administrative Reviews

Four ad hoc faculty committees set up last fall to review the administrative performance of Ed Berbari, Russ Eberhart, Pat Fox, and Tom Ho completed the long and time-

consuming work and submitted the full reports of their findings. Our sincere thanks go to the chairs of these committees for their leadership and to the committee members for their hard work. Several of the recommendations made will be implemented during 2000-01 academic year.

### Faculty and Staff News

We extend our congratulations to Jie Chen and Yaobin Chen for their promotion from associate professor rank to full professor rank, effective fall 2000.

Ed Sullivan and Ken Reid received IUPUI's NETWORK for Excellence in Teaching Fellowships. Akin Ecer, Stephen Hundley, and Ramana Pidaparti received Purdue Research Foundation International Travel Grants. The School Faculty Development awards this year went to Elaine Cooney (Distributed Learning), Doug Acheson (Distributed Learning), Razi Nalim (Research Initiative), Hazim El-Mounayri (Research Initiative), Ken Reid (Instructional Initiative), and Hiroki Yokota (Instructional Initiative). Our congratulations go to all these faculty members.

IUPUI Undergraduate Student Assembly selected Pat Fox as the 1999-00 Edward C. Moore Top Administrator Award winner. She was also elected as a director in the ASEE Engineering Technology Council. Congratulations go to Pat.

Our new Director of Recruitment, Teresa Bennet, will join us on May 15. She replaces Steve Bushouse and she will be a full-time staff helping us with all of our recruitment efforts. Please welcome Teresa.

### Other News

IUPUI held its annual Spirit of Philanthropy Lunch on April 27, 2000 at Westin Hotel. This year, our school honored Carrier Corporation for its focused contributions to scholarships for our women students. Fred Carter accepted the recognition certificate on behalf of the Carrier Corporation.

At the April 28, 2000 Chancellor's Honors Convocation, group of our students were recognized. Mark R. McCauley was honored as Cavanaugh Scholar, Brandon Jon Faulkner and Ginger Lynn Jessop as Distinguished Scholars, and John Emrich as Chancellor's Scholar. We are proud of these fine students.

On May 3, 2000, our alumni at Raytheon organized a luncheon meeting for our school. Presentation on IUPUI and our school was made to inform the alumni about the educational opportunities at IUPUI.

WE held a special luncheon meeting for a group of our retired faculty and staff. The invited speaker, David Gallahue, Associate Dean from the School of Health, Physical Education, and Recreation in Bloomington provided information and his own experience with estate planning in the Indiana University system.

Chairs, deans, directors of the school had an all day retreat on May 8, 2000 to work on the 2000-03 strategic plan for the school as well as other administrative issues. Our school staff (all department secretaries, technicians, and professional administrators are invited) will also have their retreat on May 15, 2000.

## Attachment II

Purdue School of Engineering and Technology, IUPUI  
**2000-03 Strategic Plan**  
(May 2000 Draft)

### **Vision**

Our vision is to be an innovative leader in effective, collaborative, and accessible education, research and scholarship, and service programs in engineering and technology.

### **Mission**

Our mission is to provide quality education, develop technical leaders, and conduct basic and applied research. It is to enhance our community through civic responsibility and by promoting economic development.

### **Shared Values**

Faculty, staff, and administrators in the School share the following values.

First and foremost we are committed to the learning, teaching, and training of our students.

We value the unique opportunities for collaboration offered by Indiana's capitol city and industrial center and by our place in the state's most comprehensive public university/campus, IUPUI.

We value the worldwide recognition of excellence associated with the Purdue degree that we offer our students and our role as the only engineering and technology school in the IU system.

We are a professional school, committed to maintaining in ourselves and developing in our students high standards of professional expertise and behavior. We expect faculty and staff to be both professional and academic role models for our students. We expect integrity and ethical behavior from all people associated with the School.

We are committed to expanding knowledge through high-quality research and to applying knowledge in unique ways to practical problems. We view teaching and learn We invite and encourage feedback from our constituencies and will work to meet their needs. We will change our teaching programs and research initiatives, as appropriate and possible, in response to stated and anticipated needs of our constituents.

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We strive to achieve breadth in our research, curricula, and pedagogy, as well as in the composition of our faculty, staff, and students. We value both industrial and academic experience in our faculty and welcome students from diverse backgrounds. We encourage the expression of differing ideas and the sharing of both academic and workplace expertise by faculty and students.

We enjoy camaraderie that is based on mutual respect for each other as individuals and the unique abilities and perspective each person brings to the institution. Each of us takes personal responsibility for a fair share of the work necessary to accomplish our shared goals.

We will regularly assess and refine our programs and administrative processes.

### **Goals, Objectives, and Strategic Initiatives**

The goals, objectives, and strategic initiatives of the Purdue School of Engineering and Technology for 2000-03 are categorized below by planning theme, similar to the campus document, "IUPUI in 2000 and Beyond".

#### **1. Learning**

During 2000-03, we commit ourselves to working toward the following learning related goals:

- We will maintain and increase the quality of our current programs as measured by accrediting agencies and in comparison with peer institutions to meet the needs of industry.
- We will actively recruit students, especially those with excellent academic backgrounds, from our traditional constituencies, from new constituencies and from local industries. We will expand our scholarship program to achieve this goal.
- We will increase the number of student credit hours and the number and quality of students in the school. In all programs, we will strive to reach or maintain the "critical mass" of students necessary to sustain high quality, comprehensive educational programs.
- We will improve our retention of students and increase the percentage of students completing and graduating from our programs.

- We will develop, as appropriate, new degree programs in information technology as well as offering new service courses that will contribute to the general education of students from other schools.
- We will continue our active involvement in developing articulation agreements with Community College of Indiana (Vincennes University, and Ivy Tech State College), Butler University, and twinning agreements with international institutions in China, Malaysia, and Thailand. We will expand our partnership with these institutions and add new ones as appropriate.
- We will offer credit and non-credit classes through distance learning such as web-based courses, satellite, on-site instruction, video, etc.
- We will expand our non-degree training programs for local and international industries.

## **2. Responsibilities of Excellence**

Our specific goals in this area follow.

- We will increase the national visibility of the school through increased participation by faculty in traditional venues: publication, conference presentations and professional societies.
- We will offer opportunities to faculty and staff to maintain and improve the quality and currency of their skills and knowledge.
- We will expand income from external funding sources, gifts from individuals and industries, grants and scholarly activities, and contracts.
- We will maintain our instructional and research laboratories with current, high quality equipment, software, and technical support.

## **3. Centrality and Community Connections**

We value our increasingly strong and mutually beneficial connections to local industry through program, department, and school advisory boards. Our degree programs, the applied research conducted by our faculty and the service learning that our faculty and students are involved in have primary focus addressing the needs of Indianapolis and central Indiana industry and businesses.

The following goals will be pursued in this category.

- We will concentrate our resources for targeted areas of research growth in biomedical engineering, advanced vehicle technology, computer-aided engineering and technology, information and telecommunication technology, and assessment.
- We will work to maintain and expand our formal and informal associations with local industries, with local and state governments, with other schools at IUPUI

and in the Indiana University and Purdue University systems, and with universities in the United States and other countries.

- We will actively recruit faculty, staff, and students from groups traditionally under-represented in engineering and technology disciplines and from abroad.

#### **4. Collaboration**

Our commitments are towards the following goals in this area.

- We invite and encourage feedback from our constituencies and will work to meet their needs. We will change our teaching programs and research initiatives, as appropriate and possible, in response to stated and anticipated needs of our constituents.
- We will work collaboratively with colleagues from other schools to promote the interdisciplinary exchange of ideas to share available resources of laboratories and personnel.
- We will make the resources of our faculty, students, and academic programs available to the community through consultation, service learning, and convenient scheduling.

#### **5. Accountability and Best Practices**

Our goals in this area are:

- We will ensure that students continue to have ready access to full-time faculty and academic staff for academic assistance and professional advice.
- We will continue to develop strategies for continuous assessment in fine with ABET 2000 and IUPUI campus assessment plans.
- We will regularly assess and reline our programs and administrative processes.
- We will put in place a fair and effective review process for department, program, and school administrators.