

PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY
Faculty Senate Minutes
April 11, 2006

Representatives in Attendance: Stanley Chien, Barb Christe, Gabe Chu, Cliff Goodwin (alternate), Connie Justice, Brian King, Nancy Lamm, Laura Lucas (alternate), Darrell Nickolson, Armando Pellerano, Tim Price, Paul Salama, John Schild, Wanda Worley, Jack Zecher

Guest: Doug Acheson, Ed Berbari, Andrew Hsu, Rich Pfile, Dean Yurtseven

Meeting began at 11:10 a.m.

The March 2006 minutes were approved by Tim Price, seconded by Connie Justice and approved by all in attendance. Copies of the minutes are not distributed at the meeting, but can be found at G:\COMMON\Senate documents.

Administration Report

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

Faculty and Staff News:

Jan Stevens, with CIT, received \$5,000 funding to be a part of the 2006-07 Gateway Scholars Program.

Yingzi Du, Yaobin Chin, and Maher Rizkalla, with ECE, submitted various Invention Disclosures to the IU Office of Technology.

Events:

Dr. Uday Sukathme has been named the next Executive Vice Chancellor and Dean of Faculties for IUPUI effective July 1, 2006. He is currently Dean of College and Sciences and Professor of Physics at SUNY, Buffalo.

The school recently signed a Memorandum of Understanding with TOBB Economics and Technology University, Turkey. The rector, dean of engineering and chair of Mechanical Engineering visited the school on March 28, 2006. The signing ceremony was attended by Executive Vice Chancellor Plater and Associate Dean for International Affairs Susan Sutton, as well as our faculty and administrators.

Several Engineering and Technology students were honored at the IUPUI Top 100 Students event on April 7, 2006, downtown Indianapolis. Brian Deckard, ECE senior and President of Engineering and Technology Student Council, was selected as the Top Male Student. Students in the Top 10 included Kelly McGowan (Physics/ME), Kurush Savabi (ME), Gaoussou Tamboura

(ECE), and Paul Whitaker (CIT). Students in the Top 100 included Alan Benedict (ME), Nilashis Dey (ECE), Christina Osborn (INTR), Crystal Oyler (CGT), Breanne Walters (ME), and Justin Wenger (ME).

Division of Labor Studies:

There was discussion on March 22, 2006 between our school and the Division of Labor Studies faculty, which was facilitated by IUPUI Faculty Council President and Vice President. Dr. Yurtseven, along with Cliff Goodwin and John Schild attended the meeting. The March meeting generated more questions to be answered and discussions will continue on April 19, 2006. The Division of Labor Studies was given a directive from the university to find a home. Campus Administration would like to have a decision by May or June.

John Schild would strongly encourage all faculty to discuss this important school issue. Rich Pfile asked if Faculty Senate has discussed this issue. John asked if anyone had concerns. The Division of Labor Studies has existed since 1946 and is a member of IU. Faculty can go to the website to view their history. They lost their state funding (\$350,000) since they were a line item in the state budget and their base budget funding no longer exists. They are quite solvent. They have a huge number of credit hours and service a select clientele. One challenge is the type of program they present and its educational structure. There is no clear decision if there is a fit at all. One of their missions is to teach people how to be union members and shop stewards. This does not fit the governors' philosophy.

Cliff Goodwin advised Faculty Senate of his thoughts. The Division of Labor Studies has been displaced for a number of years. Cliff is aware of the situation, being a member of IUPUI Faculty Council. They were with a division of Continuing Studies at one time. Cliff has talked to the Dean of Continuing Studies to understand why they are no longer with them. Dr. Plater has previously dealt with them over the past 17 years. Seven units have turned them down. When discussions were first beginning with IUPUI Faculty Council, Cliff thought about possibly working together with them, however, he is not sure we want to have them in the school. Cliff does not support a merger between the Division of Labor Studies and the School of ET. Some concerns Cliff has regarding the Division of Labor Studies are as follows:

1. The curriculum is weak; none of the 300 or 400 level courses require pre-requisites. They are more service than academic oriented. According to reliable sources Cliff has spoken with they don't seem motivated to change this aspect of the program.
2. There is a lack of collegial cooperation; reputation is not good.
3. Our mission versus their mission. We have never taken on an advocacy role and they have a strong advocacy role...do we as a school want to take on this role. This possible merger should be entered into very carefully and with much thought.

Cliff would not take them into OLS since they are too big, but they would work with them.

Henry Merrill, James Johnson and Judith Wertheim have been involved with them when they were with the School of Continuing Studies, so you could also contact them regarding their thoughts.

Jack Zecher feels Cliff brought up a good point; this will have an impact with the IAB boards. The IAB committee would be a valuable group to discuss this possible merger with. There have been discussions with the executive committee of DIAC; they advised mergers are delicate. They could be a decentralized unit where they would only offer service courses; would phase out the degree and certificate programs. They would have a service role, but no academic unit. Campus Administration will give a management fee of \$300,000 for 18 months to whoever takes them on. They would be a standalone group like TCM; Campus Administration is asking the School of ET to propose something.

John Schild echoed Cliff's comments. The School administration has impressed John throughout this process. The collaboration and research pursuits could be good with regards to management and labor. The students will be on the management or labor side in the work world. It is important to recognize they have a very different academic process. What would it take to make change? Changes would need to be implemented; could exist as a separate program.

Faculty Senate was advised to look at the most recent University Faculty Council minutes which was held at IU Northwest and taped. Ed Berbari advised he looked at their financial documents. The Division of Labor Studies is much more like a religious studies department; are they going to change? How strong is the curriculum; will they stay on 12 month appointments.

Please send any comments to Cliff, John and Dr. Yurtseven. Faculty can go to their website to find out additional information, and look at the March Faculty Senate Minutes for previous discussion regarding the Division of Labor Studies.

For further details of the Dean's Report see Attachment 1.

Administration Report from Dean Rennels

Ken Rennels was unable to attend the meeting. John Schild reported on the following items and the Administration Report from Dean Rennels is attached.

Fall 2006 Enrollment information was distributed. As of 4/3/2006 end of priority registration credit hours were down by 16.9% from last fall.

Online Instructor evaluations will be available beginning Monday, April 17 through Monday, May 1st (midnight). Faculty Senate members expressed concerned about the evaluations. They want to make sure the evaluations will not be extended after May 1st. There was discussion in the past regarding this issue and the evaluations should not be extended.

The school conducted an alumni survey as part of its continuous improvement plan. The summary survey data included questions regarding the following:

- Quality of Education at IUPUI by Department
- Quality of Education in Degree Program by Department
- Importance and Preparation Averages for the School

For further details of the Administration Report see Attachment 2.

Constitution and Bylaws Committee – No Report

Graduate Education Committee – No Report

Student Affairs Committee – No Report

Budgetary Affairs Committee

Rich Pfile advised the Budgetary Affairs Committee met on April 6th and he offered the following report. Because of declining enrollments and a reduction in the state appropriation, the budget for 2006-2007 is very tight and could show a deficit. At the time of the meeting fall credit hours were down 18%, but part of that decrease may be students registering later so they can put off paying tuition.

Salary increases for 2006-2007 will be minimal at 1%, which costs the school \$110,000. Salaries will lose ground to inflation; escalating the salary compression problem. Money will be saved by not filling Charlie Yokomoto's and Bob Orr's positions (both are retiring) and changing the CNC director's position to half-time. In addition, Karen Siurek's position (she resigned) will not be filled.

There are some promising signs for the future – a group of engineering students from Saudi Arabia and an increase in applications to the school, as well as suggestions of substantial tuition increases; however, there are still concerns for fall 2006.

Departments are also being asked to look for ways to reduce the part-time teaching budget. Perhaps canceling multiple day sections and increasing class sizes where possible.

When looking for cost-savings in the Dean's office, the committee recommends keeping student services at current levels. The school's student services are minimal. We also recommend preserving international and graduate services and activities, which have the potential to increase revenue.

The committee supports classifying faculty who are not actively involved in research as teaching faculty and with a teaching workload. This may have indications on teaching loads for full time faculty.

We continue our recommendation to the Dean that every effort be made to bring biomedical programs into the school's physical facilities. Currently, technology tuition from OLS and CIT helps balance the school budget and indirect cost recovery from the BME programs could

provide a significant income boost for engineering. Space is limited and consequently valuable. Departments need to know the cost of space.

Nominations Committee

Doug Acheson advised the voting system went very well and others agreed. Doug advised Lingma Lu added an area that if someone is nominated they are notified and if they do not want to be on the committee to let someone know to remove their name from the nomination list.

Doug advised Faculty Senate would elect chairs for the committees during the meeting. Senators and alternates will vote only; no guests can vote. The chair for each committee serves one year in this position.

The following faculty were nominated to serve as chairs:

Faculty Affairs Committee:	Elaine Cooney (ECET)
Grievance Board:	Stephen Hundley (OLS)
Nominations Committee:	Doug Acheson (MET)
Resources Policy Committee:	Mark Bannatyne (MET)
Undergraduate Education Committee:	Barbara Christe (ECET)
Computing Resources Committee:	Hasan Akay (ME)
Graduate Education Committee:	Eugenia Fernandez (CIT)
Constitution and Bylaws Committee:	Wanda Worley (TCM)
Student Affairs Committee:	Rob Wolter (OLS)
Budgetary Affairs Committee:	Cliff Goodwin (OLS)

Resources Policy Committee – No Report

Undergraduate Education Committee

Connie Justice advised the committee met on March 29th.

There is a new course by ECET in Ethics and Professionalism. Connie is curious and questioned how ethics is treated in each department. How does the school feel about ethics? Is it required in each department, amount of credit hours, etc. Ethics is becoming a hot topic; Connie has a Security Ethics Grant through Microsoft. The committee approved ECET 493, Ethics and Professionalism, and recommended Faculty Senate approval.

New Course

ECET 493 Ethics and Professionalism Faculty Senate approved this course

Another course the committee looked at was ME 340 Instrumentation & Measurement Systems. Hasan advised ME and ECE are meeting to discuss this course and it is still tabled.

The committee discussed whether 299/499 courses should be listed on the plan of study. These are experimental courses in most departments. It is the belief of the UEC that these should not be on the plan of study. Connie asked Faculty Senate their thoughts. Laura Lucas mentioned you might be waiting on a particular course number approval for awhile and how to handle in the interim. The committee should design a policy regarding these courses. The maximum you can offer a 299/499 course is three times and then you need to establish a course number. Faculty Senate asked Undergraduate Education Policy Committee to recommend to departments when and how they can use 299/499 courses.

Computer Resources Committee

Hasan Akay advised the committee met on April 7th. The committee has been discussing implementing a printing policy in CNC labs. This pending policy has also been discussed at the dean's level on campus. The current consensus among campus leaders is to charge 4¢ per page. The monies will be divided between the units that provide the printing services and the card services for processing. Hasan mentioned this topic has been also discussed at the Faculty Council Technology Committee.

Should we have a uniform policy? The School of Medicine already has a system in place. Although theoretically we can setup our own policy, CNC does not think that we should have a different system and rate than rest of the campus. There are already plans to make this uniform across the entire campus. There are concerns that this might raise questions from the students about the tech fees they pay and what they are used for. The proper response should be that the tech fees go to software licenses, hardware upgrades, network operations, and the personnel who maintain the facilities. The Library reported that the students' response has not been all that negative for the 1¢ fee they had initially implemented. In response to a question, Hasan mentioned that the each unit will have card readers in their labs which will be coded by them. The 4¢ fee will cover most of the expenses. It is believed that with this policy there will be less waste of paper. John Schild would like to work towards a paperless environment and promote this to the faculty. Faculty Senate members are encouraged discuss the upcoming charging policy in their departments.

Another topic discussed by the Computer Resources Committee is how effective CNC can be in providing services for Research Computing. The CNC staff has encouraged faculty to use the UITS hardware for research computing. Hasan advised that even though the campus facilities may be used for computing, CNC staff can still provide programming services for research computing, as the current staff is experienced in this area. Faculty are encouraged to charge the research computing staff's time to research projects they apply for in the future.

Hasan advised that the Faculty Council Technology Committee has been discussing how the university can leverage podcasting for teaching and learning. UITS is prepared for this. What policies are needed, important aspects of this technology, etc. has been discussed and will continue to be discussed. Since audio and visual files can easily be created with this technology, it has a lot of potential applications in teaching. The use of podcasting is expected to increase in academia for teaching. Apples iTunesU is already available for teaching and learning, however, seems to bring in some restrictions to universities, in terms of copy rights and storage spaces.

Discussions at the Technology Committee meeting led to assessing whether in-house systems should be developed or commercial systems as iTunesU should be used. This topic will be discussed in the future. There are pilot facilities developed by UITS that are available in the Teaching and Learning Services for podcasting. The faculty are welcome to take advantage of those.

Faculty Affairs Committee – No Report

IUPUI Faculty Council

Ed Berbari advised IUPUI Faculty Council met on April, 4, 2006. There were many important items discussed; they did not get through everything on the agenda so there is an additional meeting scheduled for April 18, 2006.

Ann Gellis, IU Associate Dean of Research Compliance, gave a presentation on the Intellectual Property Policy. There were recommendations by various groups from IUPUI and IUB, and the IFC will act on this issue at the May 2nd meeting. Ed advised there are controversial points which revolve around software and the value of intellectual property. There is also a new distribution for royalty income.

IUPUI Faculty Council re-elected Bart Ng at the President-Elect and Rosalie Vermette as the Vice President-Elect.

Ed advised there is discussion regarding the Integrated Image branding the school will be allowed to use on letterhead, business cards, etc. They are trying to define the school with respect to the campus. IU feels they should be the only school to use IU. IUPUI will probably not use IU; the medical school will use the IU branding. The Board of Trustees has been working on this for the past two years and has already acted on this matter. You can view this information under the March minutes at <http://www.engr.iupui.edu/facweb/facsen.shtml> under related material. Hasan advised the logos will come up, if we feel strongly about the Purdue affiliation the school needs to make those concerns known.

The Smoking Ban Policy for the campus was discussed, but it is not sure how it can be enforced; a number of people discussed health concerns.

There was no chancellor report since they ran out of time at the meeting.

Grievance Board – No Report

PWL Faculty Senate – No Report

Purdue Intercampus Faculty – No Report

Purdue Technology Senate – No Report

Old Business – No Report

New Business – No Report

Announcement

The next Faculty Senate meeting conflicts with the International Science and Engineering Fair, which John and others will be attending. John asked senate members if they should change the date or leave as is. The members decided to leave the May meeting date as is.

The meeting ended at 12:30 p.m.; the next meeting will be on Tuesday, May 9, 2006, 11:00 a.m. in SL 165.

Attachment 1

Dean's Report for April 11, 2006 Faculty Senate Meeting

Faculty and Staff News

- Jan Stevens (CIT) received \$5,000 funding and invitation to be part of the 2006-07 Gateway Scholars Program.
- Yingzi Du (ECE) submitted the Invention Disclosure, "A New Approach to Iris Recognition" to the IU Office of Technology.
- Yaobin Chen (ECE) submitted the Invention Disclosure, "Integrated Optimized System Controller for Distributed Power Generation" to the IU Office of Technology.
- Maher Rizkalla (ECE) submitted the Invention Disclosure, "FPGA CORE Architecture Software" to the IU Office of Technology.
- Darrell Nicholson (DST) received IUPUI Jump Start grant to bring ART 117 online.

Events

- Dr. Uday Sukathme has been appointed as the next Executive Vice Chancellor and Dean of Faculties for IUPUI effective July 1, 2006. He is currently Dean of College and Sciences and Professor of Physics at SUNY, Buffalo.
- School signed Memorandum of Understanding with TOBB Economics and Technology University, Turkey administrators. The rector, dean of engineering, and the chair of mechanical engineering were hosted by the school on March 28, 2006. Executive Vice Chancellor Plater and Associate Dean for International Affairs Susan Sutton attended the signing ceremony as well as our faculty and administrators.
- Once again, several of our students were honored at the IUPUI Top 100 Students event on April 7, 2006, downtown Indianapolis. Brian Deckard was selected as the Top Male Student at IUPUI Friday night. Brian is an ECE senior and the President of Engineering and Technology Student Council. Students in the Top 10 Females/Males included Kelly McGowan (Physics/ME), Kurush Savabi (ME), Gaoussou Tamboura (ECE), and Paul Whitaker (CIT). Our other students in the Top 100 are Alan Benedict (ME), Nilashis Dey (ECE), Christina Osborn (INTR), Crystal Oyler (CGT), Breanne Walters (ME), and Justin Wenger (ME).

Division of Labor Studies

- Preliminary talks between the Division faculty members and our school took place on March 22, 2006 facilitated by IUPUI Faculty Council President and Vice President. As expected, this meeting generated more questions to be answered. The second meeting will be scheduled for more detailed discussions.

Attachment 2

Undergraduate Programs Report for Faculty Senate April 11, 2006

Fall 2006 Enrollment Report

<input type="checkbox"/> Applicants (4/2/2006 data)	EGTC	IUPUI
• Beginning Freshmen including UCOL	+ 44.9%	+ 14.3%
• All Undergraduate including UCOL	+ 27.9%	+ 12.8%
• Graduate	+ 36.9%	+ 10.3%
<input type="checkbox"/> Admissions (4/2/2006 data)		
• Beginning Freshmen including UCOL	+ 9.3%	+ 5.7%
• All Undergraduate including UCOL	- 1.4%	+ 3.6%
• Graduate	- 23.8%	+ 46.1%
<input type="checkbox"/> Enrollment (4/3/2006 data)		
• End of Priority Registration, credit hrs	- 16.9%	- 4.4%

On-Line Instructor and Course Evaluations

On-Line evaluation system will be available from Monday April 17th through Monday May 1st (midnight). Departments have had the opportunity to review the course list to determine which sections should be evaluated and enrollment information as of Monday April 3rd (end of drop period) is being loaded to insure accuracy of the system.

Alumni Survey Results

The school has conducted an alumni survey as part of its continuous improvement activities. All program with undergraduate alumni where surveyed. The overall response rate was approximately 27%. Attached are summary survey data including:

1. Quality of Education at IUPUI by Department
2. Quality of Education in Degree Program by Department
3. Importance and Preparation Averages for the School.

The complete results including data by degree program is being distributed to department chairs.

QUESTION: Based on your work experience since obtaining your undergraduate degree, what is your impression of the overall quality of your educational experiences that you received at IUPUI?

Department	Marginal	Fair	Satisfactory	Good	Excellent	#Responses	Average
CIT	4	12	10	20	5	51	2.80
CNT	1	8	11	22	3	45	2.60
ECE	1	9	13	28	4	55	2.55
ECET	0	8	11	47	12	78	2.19
ME	1	10	18	24	10	63	2.49
MET	4	7	6	37	8	62	2.39
OLS	0	5	5	31	16	57	1.98
Totals	11	59	74	209	58	411	2.41

QUESTION: Based on your work experience since obtaining your undergraduate degree, what is your impression of the overall quality of your degree program?

Department	Marginal	Fair	Satisfactory	Good	Excellent	#Responses	Average
CIT	4	12	7	24	4	51	2.76
CNT	2	10	13	14	6	45	2.73
ECE	1	10	14	26	4	55	2.60
ECET	0	9	10	43	16	78	2.15
ME	1	11	15	24	12	63	2.44
MET	3	7	8	37	7	62	2.39
OLS	0	6	5	23	23	57	1.89
Totals	11	65	72	191	72	411	2.40

Scale

5	Marginal
4	Fair
3	Satisfactory
2	Good
1	Excellent

	Description	Average Importance	Average Preparation
1	Ability for effective oral communication.	4.63	4.15
2	Ability to apply the basic principles of your discipline.	4.31	4.08
3	Ability to communicate effectively in writing.	4.59	4.16
4	Ability to consider several points of view and arrive at a reasoned conclusion.	4.58	4.15
5	Ability to continuously learn new skills and knowledge.	4.67	4.36
6	Ability to design and conduct an experiment and use results to improve a process.	3.64	3.74
7	Ability to design and conduct an experiment.	3.91	3.95
8	Ability to evaluate the quality and validity of data, information, and evidence.	4.44	4.10
9	Ability to identify, analyze, and solve problems using methods, tools, and skills of your discipline.	4.60	4.19
10	Ability to integrate knowledge from the humanities and the social sciences into your work.	3.69	3.83
11	Ability to integrate mathematics and science into your work.	4.01	4.17
12	Ability to plan, organize, and complete a design task.	4.58	4.17
13	Ability to solve engineering problems using methods, tools, and skills of your discipline.	4.29	4.09
14	Ability to take initiative.	4.71	4.14
15	Ability to use information resources such as databases, libraries, and the Internet.	4.50	4.33
16	Ability to work successfully as a member of a team.	4.66	4.35
17	Awareness of the impact of your work in a global context.	4.01	3.73
18	Awareness of the importance of safety issues related to your work.	4.35	3.84
19	Awareness of value of considering diversity and differences in cultures in your work.	4.19	4.03
20	Commitment to quality, timeliness, and continuous improvement	4.74	4.38
21	Knowledge and abilities in the state of the art in your discipline.	4.10	3.80
22	Understanding and appreciation of ethics and professionalism as related to your work.	4.57	4.21

Importance Scale	Preparation Scale
no importance = 1	poor = 1
little = 2	marginal = 2
somewhat = 3	adequate = 3
important = 4	good = 4
very important = 5	very good = 5