

PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY
Faculty Senate Minutes
September 12, 2006

Representatives in Attendance: Hasan Akay (alternate), Mark Bannatyne (alternate), Jim Brown, Sally Catlin, Stanley Chien, Barb Christe, Gabe Chu, Dave Dellacca, Mohamed El-Sharkawy, Charlie Feldhaus, Chul Kim, Nancy Lamm, Razi Nalim, Paul Salama, John Schild, Erdogan Sener, Adam Siurek (alternate), Joy Starks, Wanda Worley

Guest: Ed Berbari, William Conrad, Elaine Cooney, Cliff Goodwin, Stephen Hundley, Laura Lucas, Tim Price, Dean Yurtseven

Meeting began at 11:04 a.m.

The May 2006 minutes were displayed for a few minutes and were approved by Mark Bannatyne and all in attendance. John Schild requested everyone read the minutes prior to attending the meeting so they could be approved promptly at the beginning of each meeting. Copies of the minutes are not distributed at the meeting, but can be found at G\COMMON\Senate documents in addition to being distributed to all faculty via the ET faculty e-mail alias at least one week prior to the next meeting of the Faculty Senate meeting.

Barb Christe asked John Schild about adding information (emails) that was discussed after the May 2006 Faculty Senate meeting to the May minutes. John advised he will add emails and any other correspondence/discussion under the September minutes old business. All were in agreement with this.

Administrative Report

Academic Programs:

The School of ET headcount went down by 2.6% as compared to fall 2005 semester and went down 6.82% in credit hours. IUPUI headcount did decrease by 0.57% and the student credit hours increased by 0.59%. Dr. Yurtseven advised we receive less income from tuition if the credit hours are down and it is up to the school to adjust the base budget. We are taxed a little less because we had less credit hours; the current budget is affected.

The BME Technology program (BS) was approved by the Indiana Commission on Higher Education on May 12, 2006.

Bill Conrad is the Interim Associate Dean for Undergraduate Programs. The internal search for this position will begin this month.

Larry Hill is working with PeopleSoft this semester. Dave Williamson will work as the liaison advisor for our school and University College this semester.

Campus is expected to receive an updated version of PeopleSoft early 2007; the school is not sure yet what will be required of them.

Administrative Reviews:

Dr. Yurtseven advised there will be administrative reviews for Tom Ho and Pat Fox this semester. Review committees will consist of faculty members nominated by the Faculty Senate, staff members nominated by the Staff Advisory Committee, and additional staff and faculty appointed by Dr. Yurtseven. ET Staff Advisory Committee has forwarded names of interested staff; Dr. Yurtseven asked Faculty Senate to also forward faculty names to him.

Dr. Yurtseven asked if Doug Acheson sent out a request for nominations or selected a committee to come up with a list of names. Doug has not started this process and is currently out on sabbatical this semester. Each department's representative on the Nominations Committee should submit faculty names to Faculty Senate to serve on the Administrative Reviews. Dr. Yurtseven gives the faculty being reviewed the names of those on the committee as a courtesy.

In addition, Dr. Schild asked Joy Starks to take the lead on this matter for the Nominations Committee and she agreed.

Faculty News:

John Schild (BME) received \$330,668 grant from NIH-NHLBI.

Chul Kim (CNT) received \$6,451 grant from Achievement Focused.

Eliza Du, (ECE) received \$22,667 grant from Purdue University.

Jie Chen (ME) received \$52,727 grant from Oscar, Inc.

Pat Fox received \$3,933 grant from German Academic Exchange Services.

Jie Chen (ME) and Rodrigo Viecilli (Dentistry) submitted invention disclosures to the IU Office of Technology Transfer.

Razi Nalim (ME) and Pezhman Akbari (ME) submitted invention disclosure to the IU Office of Transfer Technology.

Maher Rizkalla (ECE) submitted invention disclosure to the IU Office of Technology Transfer.

Paul Salama (ECE) submitted invention disclosure to the IU Office of Technology Transfer.

Russ Eberhart (ECE), Xiaohui Hu, Jonathan W. Mills, and Bryce Himebaugh submitted invention disclosure to the IU Office of Technology Transfer.

Rongrong Chen (ME) and Andrew Hsu (ME) submitted invention disclosure to the IU Office of Technology Transfer.

Eugenia Fernandez (CIT) was appointed Faculty Fellow of the Center on Integrating Learning (COIL) and received a \$5,000 grant with this appointment.

Barbara Christe (ECET) received \$5,000 University College Faculty Fellowship (First Year Seminar Pedagogy-Sharing Best Practices).

Events:

Dr. Yurtseven reported some department chairs were kind enough to open their homes for alumni and freshman welcome barbeques. Dr. Akay held an ME Alumni barbeque on June 24, 2006. Paula Jenkins held the Freshman Welcome Barbeque on August 26, 2006. Yaobin Chen held an annual ECE Alumni barbeque on September 9, 2006.

All of the barbeques received support and sponsorship from the School Alumni Board. The Freshman barbeque was well attended; ME had a good turnout, and ECE had less turnout than Dr. Yurtseven expected.

IU Board of Trustees, General Education Resolution:

Dr. Yurtseven reported the IU Board of Trustees passed a resolution of proposed courses for IUPUI's general education requirements. This was passed in August; all of IU campuses have to have general education requirements. The Executive Committee of Faculty Council and Faculty Council are responding to this proposal; IUPUI leadership is suggesting we be proactive in this area. The draft does satisfy what the Board of Trustees is suggesting. They will see if any programs are affected and check with ABET requirements. The Guidelines are within PUL's and Dr. Yurtseven does not see any problems, but wants every program to look this over. Departments should either endorse the proposal or make a recommendation to the campus.

- First year seminar/learning community - 1 course (1-3 credit hours)
- College writing, English W131 + 6 hours
- Speech/communications (3 hours)
- Mathematics competence (3 hours) 118 or higher
- Arts and humanities (2 courses/6 hours)
- Social sciences (2 course/6 hours)
- Science (1 or 2 courses/5 or 6 hours)
- Capstone (typically 3 – 6 hours)
- TOTAL: 33-39 hours

Joy Starks questioned technology course requirements. Bill Conrad advised the PUL's were originally presented and we did not get our way on the technology course. The campus did not agree that a technology course should be required. If we suggest a technology course at this time, it was suggested discussing with School of Science since they put together the original PUL's. The schools could think about changing the "Science requirement" to "Science and Technology". Bill Conrad advised he is on the committee with Trudy Banta and some requirements have changes. Bill suggested technology, but the committee did not agree. There was discussion of whether the classes or headings are more important. Bloomington has an internship/capstone in their requirements. They also have a required course in diversity, which is used for Social Sciences. John Schild asked if it would make a difference if the School of ET and School of Science submitted suggestions. Andy Gavrin is the counterpart in the School of Science. Bill suggested we could try. Dr. Uday Sukhatme wants ours to look similar to Bloomington. Bill is not sure he likes what it does; puts money in some schools and not others. Bill will forward to John the official name of the committee and who to contact with suggestions.

Cliff Goodwin advised the Executive Committee has been looking at this proposal. The Board of Trustees has been arguing for the transferability of courses that every IU campus will accept. If we start introducing Engineering and Technology courses, can we make a good case for the course(s)? All IU students, regardless of campus, will be able to count 33 credit hours.

Ed Berbari advised Faculty Council specifically asked if this applied to Purdue degrees. IU trustees cannot forward information to Purdue and we will probably not have to change our plans of study. Purdue programs will not have to worry about these guidelines.

Cliff Goodwin noted IU again is not thinking about us when making these demands. Stephen Hundley feels politically we should discuss requirements. John will send the information to all chairs and directors and any specific comments should be forwarded to John Schild. Cliff feels the School of ET should send a unified response.

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

Administrative Report from William Conrad

Bill Conrad advised the school should keep all the students we have and try to get all the students we can. He distributed the fall 2006 Enrollment information and it is also attached at the end of this report. Stephen Hundley mentioned faculty FTE headcount and percentage change per department can also have an impact on the numbers.

Mark Bannatyne asked Bill to remove CIMT; it will be removed in the near future.

For further information see the fall 2006 Enrollment information, Attachment 2.

Constitution & Bylaws Committee

Wanda Worley advised there are two issues the committee has been working on. The issues were how to replace someone who leaves a school-wide elected committee or board and their response to a proposed addition of a School Research Committee.

A situation arose where a faculty member wanted to leave a school-wide elected committee that he or she was on. There was no procedure for replacing this person. The committee recommended a formalized process for replacing a member who wants to leave a school wide elected committee or board. Wanda distributed current and recommended changes under the "Standing Committees of the Senate" area in the Bylaws:

"If a vacancy occurs in a school-wide elected committee or board, the position will be filled by the nominee who received the next highest votes in the election. If this person is not willing or able, the next person on the list will be asked to serve. This process will continue until the election list of names is exhausted, at which point the presiding officer will offer a nominee to the Faculty Senate. Faculty Senate will then vote on the nominee."

Due to the above change, election tallies will now need to be archived for a minimum of two years. The committee also added this change to the current Bylaws on Page 17.

Mark Bannatyne questioned why the complete faculty does not vote for open positions. According to Wanda, since we are talking about an interim replacement, this recommendation will expedite the member's replacement on the committee and simplify the process. Faculty Senate approved of the updated wording in the bylaws; Wanda will now send these to the faculty and the changes will be voted on at the October Faculty Senate meeting.

Andrew Hsu submitted a proposal to the Constitution and Bylaws Committee regarding the addition of a School Research Committee. The committee was asked to recommend wording for this proposal. The Constitution and Bylaws Committee was unable to fulfill this request from the Faculty Senate.

The attached report (*Attachment 3*) summarizes the procedures the school currently has in place when a faculty member leaves a committee and the recommended addition to the Bylaws for the procedure to replace a faculty member on a school wide elected committee. The report also discusses the need to archive election tallies for a minimum of two years. The final item on the report gives a response to the proposed addition of a school research committee.

Graduate Education Committee

Razi Nalim proposed a Graduate Certificate in Systems Engineering. The course descriptions can be found on the G drive at:

G:\COMMON\NEW_COURSES_GRADUATE\YR2006\AUGUST2006. Mark Bannatyne questioned why there should be a certificate under the graduate program. The Deans Industrial Advisory board and industry feel there is a need for this certificate. The kind of program that would draw the most interest would be a graduate certificate program consisting of 4 courses. Someone asked why this is so at the graduate level and not at the undergraduate level. Systems Engineering is typically something that requires students have technical background. Students want to be certified and many schools have started graduate programs, some at the Masters Level. A Systems Engineering Certificate program could grow into a masters program. Hasan feels this certificate might attract practicing engineers. Charlie Feldhaus asked if this certificate precludes undergraduates. Razi advised that to be admitted to the program a BS degree from engineering or a technical field is required. The 3.0 GPA requirements will be required. Students in this program could also transfer to our Masters program. The GRE is not required, as the market for this certificate is local industry. The International program does not require the GRE, but now will need to submit GRE information to pursue Masters. A visa would not be issued for a non degree seeking program; Mohamed El-Sharkawy asked about students already here. Ed Berbari feels the Purdue program would control this. Ed advised Purdue will eventually put minimum requirements on this.

Faculty Senate unanimously approved the Graduate Certificate in Systems Engineering.

Student Affairs Committee – No Report

Budgetary Affairs Committee - No Report

Nominations Committee – No Report

Resources Policy Committee – No Report

Undergraduate Education Committee

The committee met on August 28th, 2006.

Three (3) new courses were proposed at the meeting.

CNT 125 – Construction Visualization

CNT 120 – Materials and Methods
CNT 215 – Mechanical and Electrical Systems

There was some concern regarding duplication with Design Technology. Design Technology acknowledged the courses and does not mind these courses being added to the CNT program. Laura Lucas was also present in case Faculty Senate had any questions. There was a motion to approve these courses.

Faculty Senate unanimously approved these courses; CNT 120, CNT 125 and CIT 215.

Course descriptions for these courses can be found at:

G:\COMMON\NEW_COURSES_UNDERGRADUATE\YR2006\august2006

Computer Resources Committee

Hasan Akay reported that the committee met at the beginning of September. They heard a report from CNC and finalized information from last semester. Bill Lin advised the Computer Resources Committee the move was going well. The computers are functioning well, although there have been some problems associated with furniture and design of rooms. CNC is working with furniture companies to remedy these issues. There will be two (2) open labs, 002 and 019; however, 019 at this time has limited availability since this lab is being used for some classes. Hasan advised faculty should mention the 24 hour open lab in the IT building to their students, which has some of our software. There are also two open labs in Business school building. If you want more software installed in CNC labs let them know.

Hasan reported that the committee also discussed the schools policy on web pages. Hasan advised they have formed a subcommittee and make some recommendations. The committee feels the first and second pages on every department's website should be uniform, and the department can do what they want on the following pages. Currently, there is no policy for this. Razi Nalim questioned the web page requirements; there was some discussion to go to wider pages. Please let Hasan know of any other suggestions you may have. Every department has a representative on the Computer Resources Committee.

There was some discussion of postponing the use of the card readers until the ABET visit is over. Dr. Yurtseven advised nothing will be done until October 9th.

Joy Starks inquired about some equipment being stolen in the CNC labs. Hasan advised this happened during the move; security cables were not installed on these projectors, and CNC is not sure if the school or UITS will be responsible.

Students will begin paying for copies on October 9th.

Faculty Affairs Committee

Elaine Cooney informed the Senate that at the request of the Dean the Faculty Affairs Committee will revisit the workload policy.

The ensuing discussion centered around the definition of "Research" and "Teaching" faculty and is summarized as follows:

- 1) Cliff Goodwin wonders why this is a faculty issue, he feels it should be a dean and chair issue.
- 2) Dr. Yurtseven indicated that logic can be used to establish a definition of faculty workload. Dr. Akay questioned the definition of teaching and research faculty. Tim Price felt the workload

should be decided by the chairs and deans. When the workload document was last updated, the committee felt this was an administration issue.

- 3) Stephen Hundley feels the Promotion and Tenure guidelines represent this information and he does not understand the need for delineation. Ed Berbari agreed with Stephen, should be the faculty's decision to choose area of excellence.
- 4) Dr. El-Sharkawy feels we have enough divisions of culture at this time with technology, engineering and the new biomedical culture.
- 5) Dr. Schild stated that the needs and expectations for Research Faculty can be quantified in terms of lab space, extramural support, graduate student support, etc. Levels and expectations can be clearly defined.
- 6) Prior to 1997 the school did not have a workload guideline and there was a historical expectation. A committee worked very hard in 1997 under Dr. Akay's leadership to define discipline and activity; and research vs. teaching. The difficulty is in defining what this is...a more difficult matter is to define the expectations for research and teaching. That clarification while in our guidelines is vague, but this could be a good thing. There are special accommodations where complexity is, but also helps to be flexible in those definitions. Faculty expectations are negotiated with the faculty and chair and the faculty and dean. Cliff advised faculty have expressed concern, where technology faculty teach more...research is a big issue for technology faculty.
- 7) Dr. Yurtseven again asked Faculty Affairs to look at this issue. Dr. Yurtseven stated that it would be fair and acceptable if the committee does not make a recommendation for change. Dr. Yurtseven wants the committee to have one more discussion on this.

IUPUI Faculty Council

Ed Berbari advised there were three (3) main items discussed at the IUPUI Faculty Council meeting on September 5th.

Associate University Counsel Beth Cate reported on new data protection laws in Indiana and how they relate to faculty best practices when dealing with sensitive information such as social security number, financial information, etc. It is a crime to disclose the SSN of a student. If you have old records, whether on paper, disk or computer if this information gets lost or stolen you could be responsible. Ed advised you are to remove any information with SSN as soon as you can. There are shredding services available through the Dean's office and departments. You can use the last four (4) digits of a SSN. If any electronic system has been breached, State Attorneys office will have two days to be informed. Email questions about how to secure your data to itpo@iu.edu.

Chancellor Charles Bantz advised on the process for selecting the new IU president.

Enrollment is an issue for the campus, and there are a number of university discussions.

The IU Communications Group met on September 11th to discuss the Integrated Image Project.

The research compliance structure is being reviewed following a Board of Trustee recommendation.

The Commission on Higher Education met recently to review IU's proposed budget. The University will ask for \$50,000,000 for the Life Sciences Initiative and \$5,000,000 for S.T.E.M.

Dean Sukhatme is working on an academic action plan and desires to create signature centers of excellence for the campus. He is currently working with faculty, staff and others on this plan. John Schild recently sent an email to Dean Sukhatme concerning these centers. Dr. Sukhatme's reply made it clear that many details (e.g. selection process) are still being worked out. John advised the school has to match, not sure if the dean will support.

Bart Ng reported the President and Faculty are to submit to the Board of Trustees their plan to incorporate a specific general education component in the undergraduate degree requirements for all IU campuses and programs.

President Adam Herbert will deliver his last State of University Address on Tuesday, September 26th at 3:00 p.m. at the IUPUI University Place Conference Center. This is the first time President Herbert has come to IUPUI for his address.

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

Grievance Board – No Report

IUPUI Graduate Affairs – No Report

PWL Faculty Senate – No Report

Purdue Intercampus Faculty – No Report

Purdue Technology Senate – No Report

Old Business

Senate approval of degree name change for CNT on 5/15/06 vial electronic vote to **Construction Engineering Management Technology**. ***Attachment 4*** is a compilation of e-mails to Senators asking to vote for this change via e-mail.

New Business

Ken Rennels has offered to go to Purdue Faculty Senate. If someone wants to share the load with Ken please let John know.

Announcements

Two new senators representing the Construction Technology Department: Professors Erdogan Sener and Chul Soo Kim will replace Brian Kinsey and Daphene Koch.

The meeting ended at 12:30 p.m.; the next meeting will be on Tuesday, October 10, 2006, 11:00 a.m. in SL 165.

Attachment 1

Dean's Report for September 12, 2006 Faculty Senate Meeting

Academic Programs

- The official enrollment data released by the campus indicate that our school lost more ground both in terms of student headcount and student credit hours. While IUPUI headcount went down by 0.57%, the School headcount dipped by 2.6% as compared to fall 2005 semester. IUPUI student credit hours went up slightly (0.59%) while the School student credit hours went down by 6.82%.
- Biomedical Engineering Technology (BS) program was approved at the May 12, 2006 meeting of the Indiana Commission on Higher Education.
- Bill Conrad is now our Interim Associate Dean for Undergraduate Programs after the resignation of Ken Rennels. The internal search will start this month to fill the position.
- David Williamson will work as the liaison advisor for our school and the University College this semester, replacing Larry Hill who will be working for Student Information System.

Administrative Reviews

- There will be administrative reviews for Tom Ho, Chair of the Department of Computer and Information Technology, and for Pat Fox, Associate Dean for Finance and Administration. Review committees will be composed of faculty members nominated by the Faculty Senate, staff members nominated by the Staff Advisory Committee, and additional faculty and staff appointed.

Faculty News

- John Schild (BME) received \$330,668 grant from NIH-NHLBI for his proposal "Neurobiology of Baroreceptor Perikarya and Afferentation".
- Chul Kim (CNT) received \$6,451 grant from Achievement Focused for his proposal "Construction Equipment Data Management and Processing".
- Eliza Du (ECE) received \$22,667 grant from Purdue University for her proposal "Site-Verification of Weigh-in Motion Traffic Classification Data".
- Jie Chen (ME) received \$52,727 grant from Oscar, Inc for his proposal "Development of Force Based Orthodontic Appliances".
- Pat Fox received \$3,933 grant from German Academic Exchange Services for her proposal "German Academic Exchange Service Group Study Visits 2006".
- Jie Chen (ME) and Rodrigo Viecilli (Dentistry) submitted invention disclosures, "Adjustable Orthodontic Mechanism for Root Movement" (06238) and "Testing Device for Tooth Movement" (06239) to the IU Office of Technology Transfer.
- Razi Nalim (ME) and Pezhman Akbari (ME) submitted invention disclosure "Novel Method of Fuel Injection for Combustion Wave Rotor Engine" (06299) to IU Office of Transfer Technology.
- Maher Rizkalla (ECE) submitted invention disclosure "General Purpose Range of Motion Machine" (06243) to the IU Office of Technology Transfer.

- Paul Salama (ECE) submitted invention disclosure “Least Squares Approach to Estimating the Probability Mass Function of Unobserved Data in Photon-limited Imagery” (07021).
- Russ Eberhart (ECE), Xiaohui Hu, Jonathan W. Mills, and Bryce Himebaugh submitted invention disclosure, “Analog Microcontroller and Hybrid Analog/Digital Processor” (07013) to the IU Office of Technology Transfer.
- Rongrong Chen (ME) and Andrew Hsu (ME) submitted invention disclosure “Novel Organometalic Fuel cell Catalyst’ (06254) to the IU Office of Technology Transfer.
- Eugenia Fernandez (CIT) was appointed as a Faculty Fellow of the Center on Integrating Learning (COIL) with \$5,000 grant that comes with the appointment.
- Barbara Christe ECET) received \$5,000 University College Faculty Fellowship (First Year Seminar Pedagogy-Sharing Best Practices).

Events

- On June 24, 2006, the Department of Mechanical Engineering held Alumni Barbeque at the home of Hasan Akay with the support and sponsorship of Alumni Board.
- On August 26, 2006, Freshman Welcome Barbeque was held at the home of Paula Jenkins. Our Alumni Board of Directors sponsored the event.
- On September 9, 2006, the Department of Electrical and Computer Engineering held its annual Alumni Barbeque at the home of Yaobin Chen. Sponsor was the School Alumni Board.

**Resolution on General Education
Indiana University Board of Trustees
August 18, 2006**

Whereas undergraduate education is a core component of the mission of Indiana University, and

Whereas Indiana University is committed to providing a quality undergraduate education, and

Whereas an undergraduate degree should prepare students in a major field of study as well as provide a general education which imparts common knowledge and intellectual concepts and develop skills and attitudes that every educated person should possess, and

Whereas the general education components should be designed to facilitate transfer within and among Indiana University campuses and public institutions within the State of Indiana without requiring students to duplicate coursework to meet general education requirements, and

Whereas the Board of Trustees applauds and supports the priority commitment of the President to implement a general education curriculum at Indiana University as presented in his inaugural address and subsequent public statements, and

Whereas the faculty have been actively and productively discussing the principles and details of a general education requirement over the last two years, and

Whereas the education leaders of the State of Indiana have demonstrated a commitment to provide a process for seamless transfer among public institutions,

Therefore be it Resolved that no later than February 2007 the President and faculty submit to the Board of Trustees a plan to incorporate a specific general education component in the undergraduate degree requirements for all Indiana University campuses and programs, and

Be it further Resolved that the components of the plan address and incorporate the principles enumerated above.

DRAFT/8-22-06

General Education at IUPUI

IUPUI is committed to providing quality undergraduate education. It strives to produce graduates who not only have depth in their major field of study, but also substantial breadth in general education. IUPUI's approach to general education is based on the articulation and assessment of student learning outcomes. It is aligned with widely accepted current national norms as described in the Greater Expectations report of the Association of American Colleges and Universities. The main outcome areas, called Principles of Undergraduate Learning, consist of evaluating student achievement in six areas: Core Communication and Quantitative Skills; Critical Thinking; Integration and Application of Knowledge; Intellectual Depth, Breadth and Adaptiveness; Understanding Society and Culture; Values and Ethics. Although IUPUI is a national leader in the assessment of student learning, it must be recognized that this is still an evolving art and not an exact science. Novel methods like keeping and evaluating electronic student portfolios have been developed, but at this time, the dominant mode of delivering broad general education continues to be via a selection of coursework. Many IUPUI schools have now adopted a curriculum consisting of a set of foundation courses, contributing to the Principles.

- First year seminar/learning community - 1 course (1-3 credit hours)
- College writing, English W131 + 6 hours
- Speech/communications (3 hours)
- Mathematics competence (3 hours) 118 or higher
- Arts and humanities (2 courses/6 hours)
- Social sciences (2 course/6 hours)
- Science (1 or 2 courses/5 or 6 hours)
- Capstone (typically 3 – 6 hours)
- TOTAL: 33-39 hours

We propose the above list as IUPUI's general education requirements.

Students are given opportunities throughout the curriculum to develop and document their intellectual skills and abilities in the Principles. Of course, not all courses encompass all Principles. The first year seminar/learning communities focus on written communication and critical thinking as specifically evaluated learning outcomes. W131 focuses almost completely on written communication, but also specifically addresses and evaluates the ability to analyze and interpret text, aspects of critical thinking. Speech/communications courses help with oral communication, but also address and evaluate aspects of written communication and critical thinking. Mathematics courses address analytical and critical thinking. Arts and humanities courses provide communication skills, ability to analyze and interpret text, critical thinking, integration and application of knowledge, understanding society and culture, and values and ethics. The social sciences cultivate critical thinking, integration and application of knowledge, understanding society and culture, analytic reasoning, and values and ethics. Science courses contribute to quantitative reasoning, critical thinking as it relates to the scientific method, and the integration and application of knowledge. The Capstone experience provides an opportunity for students to demonstrate knowledge and application of the Principles in relation to the major.

Attachment 2

Fall 2006 Enrollment

DEPT/PROGRAM	8/31/2006			
	¹05 Cr Hrs	²06 Cr Hrs	Net Chg.	% Chg.
Biomedical Engineering	Department 205	291	86	41.95%
Computer and Information Technology	Department 5,592	4,805	-787	-14.07%
Construction Technology	CET 633	733	100	15.80%
	CNT 894	944	50	5.59%
	Department 1,527	1,677	150	9.82%
Electrical and Computer Engineering	Department 2,026	1,612	-414	-20.43%
Electrical and Computer Engineering Technology	BMET 183	142	-41	-22.40%
	ECET 1,766	1,308	-458	-25.93%
	Department 1,949	1,450	-499	-25.60%
Freshman Engineering	Program 853	889	36	4.22%
Mechanical Engineering	Department 1,481	1,533	52	3.51%
Mechanical Engineering Technology	CGT 1,202	1,168	-34	-2.83%
	CIMT 36	30	-6	-16.67%
	IET 456	492	36	7.89%
	MET 1,121	1,038	-83	-7.40%
	Department 2,815	2,728	-87	-3.09%
Organizational Leadership and Supervision	ART 1,259	884	-375	-29.79%
	INTR 882	1,023	141	15.99%
	OLS 2,507	2,402	-105	-4.19%
	Department 4,648	4,309	-339	-7.29%
Technical Communications	Program 1,226	1,296	70	5.71%
Technology	Program 48	254	206	429.17%

SCHOOL TOTAL	22,370	20,844	1,526	-6.82%
IUPUI Campus Total	301,362	301,968	606	0.20%

¹Data from September 1, 2005 (Census)

²Data from August 31, 2006 (Census)

Attachment 3

Report by the Constitution & Bylaws Committee

September 12, 2006

Topics:

- Formalize the process for replacing a faculty member unable to complete a term on a school-wide elected committee or board (for example, the Student Affairs Committee, Constitution and Bylaws Committee, and Budgetary Affairs Committee, the IUPUI Faculty Council).
- Response to proposed addition of a School Research Committee at the August Faculty Senate meeting.

All **Committee Members** (Heather Woodward, Sarah Koskie, John Schild, Jan Stevens, Wanda Worley) agree with the following recommendations:

RECOMMENDED ADDITIONS TO THE BYLAWS

1. Procedure for interim appointment to replace a member who leaves a school-wide elected committee or board before his or her term expires

Current (p. 15)

E. Standing Committees of the Senate

All committees of the Senate shall be directly responsible to the Senate.

The terms of committee membership shall begin on August 1. Election of committee members for the following academic year shall take place prior to April 15. Election of committee chairs by the Senate shall take place at the May meeting of the Senate.

Each standing Senate committee shall keep written minutes and report to the Senate at its request or at the request of the Agenda and Administrative Advisory Committee. Annually, each standing committee shall submit a written report to be distributed to the Faculty.

Programs will be combined as one entity for purposes of representation on standing committees that require one representative from each Department.

Recommended Change (in bold)

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Programs will be combined as one entity for purposes of representation on standing committees that require one representative from each Department.

Vacancies on school-wide elected committees or boards that arise prior to the next election cycle shall be filled by the nominee who received the next highest number of votes for the position occupied by the vacating member. Should this nominee be unwilling or unable to serve, this process will continue until the election list is exhausted, at which point the presiding officer will offer a nominee to the Faculty Senate. A majority vote will be required to confirm the selection of this new committee or board member who will serve until the next election cycle.

2. Wording to be added to the Nominations Committee description of Duties and Responsibilities

Current (p. 17)

- vi. This committee shall maintain records of membership of Faculty boards and Senate committees and establish patterns of rotation of terms.

- vii. This committee shall ascertain the number of Faculty in each Department as of February 1 of that academic year. This committee shall recommend the composition of academic groups for representation to the Senate on the basis of assignment. At the February meeting of the Senate each year, this committee shall recommend to the Senate for its approval the number of Senators to represent each academic group for the following academic year.
- viii. This committee shall annually solicit from the Faculty information concerning Faculty preferences and qualifications for committee assignments.

Recommended Change (p. 17 - in bold)

- vi. This committee shall maintain records of membership of Faculty boards and Senate committees and establish patterns of rotation of terms.

vii. This committee shall archive election tallies for a minimum of two years.

- viii. This committee shall ascertain the number of Faculty in each Department as of February 1 of that academic year. This committee shall recommend the composition of academic groups for representation to the Senate on the basis of assignment. At the February meeting of the Senate each year, this committee shall recommend to the Senate for its approval the number of Senators to represent each academic group for the following academic year.
- iv. This committee shall annually solicit from the Faculty information concerning Faculty preferences and qualifications for committee assignments.

RESPONSE TO PROPOSED ADDITION OF A SCHOOL RESEARCH COMMITTEE

3. Recommendation regarding wording of a proposal for addition of a School Research Committee

The Constitution and Bylaws Committee met on August 29, 2006. All members were present. The Committee was asked to recommend wording for the proposal presented to Faculty Senate on May 9, 2006, to fit the language of the Constitution and Bylaws.

After extensive discussion and review of the proposal, the Constitution and Bylaws Committee unanimously reached the following conclusions:

- 1. Rules governing all committees are part of our School Bylaws.**

- 2. The overarching purpose of our Bylaws is to establish rules for faculty governance for the regulation of faculty affairs and the larger administrative operations of our School.**
- 3. All standing committees established through our Bylaws have balanced faculty representation and, for the most part, equally benefit/impact all faculty.**
- 4. The present organizational and operational structure of our School is such that a standing Research Committee would not equally benefit/impact all faculty. Furthermore, effective management of such a committee would necessitate, by its very nature, limiting membership to those faculty with clear expertise in securing intramural and extramural research funds.**
- 5. Therefore, the Constitution and Bylaws Committee recommends that the Bylaws NOT be amended to include such a specialized standing committee.**

The rationale for this summary conclusion (item 5 above) is as follows:

- The responsibilities listed in the proposal presented to Faculty Senate on May 9, 2006, are fundamental responsibilities of the Associate Dean for Research.**
- The Associate Dean for Research already has the authority to convene, as needed, an advisory board or an ad hoc committee to address any of the issues mentioned in the proposal. Such flexibility ensures that members can be chosen based upon faculty experience and expertise relative to the area(s) under consideration.**
- The transfer of the responsibilities listed in the proposal to a standing committee would weaken the administrative role of the Associate Dean for Research. For example, transfer of responsibilities listed in the proposal to a committee would open the possibility of decisions being made by a nonrepresentative or biased body. It is one of the functions of the Associate Dean for Research to ensure that decisions are made impartially and, if appropriate, are based on input from parties qualified to address the specific topic under consideration.**

Attachment 4

Compilation of e-mails to Senators asking to vote for/against proposal for CNT degree name change.

From latest to earliest:

-----Original Message-----

From: Schild, John H

Sent: Thursday, May 18, 2006 8:44 AM

To: Rennels, Kenneth E

Cc: Schild, John H; Chu, Tien-Min Gabriel; Watson, William; Price, Timothy W.; Justice, Connie F; Catlin, Sally; Kinsey, Brian; Koch, Daphene Cyr; Nickolson, Darrell D; King, Brian; Salama, Paul; Chien, Yung-Ping (Stanley); Christe, Barbara L; Brown, James K; Lamm, Nancy P; Chen, Jie; Anwar, Soheli; Nalim, Mohamed Razi; Zecher, John E.; Pellerano Jr, Armando; Feldhaus, Charles R; Worley, Wanda L.; Eldin, Neil N; Yurtseven, H. Oner

Subject: RE: CNT Degree Title Change Proposal

Ken,

To date I have received responses from 15 of our 21 Senators. All 15 have voted to approve the name change for CNT. This demonstrates that more than 2/3 of the Senate membership is in favor of this name change.

To date, there have been no dissentions. As only a simple majority of the Senate is required to approve this change I am now closing discussion, tallying votes and moving this matter from the Faculty Senate to your office.

peace,
jhs

John H. Schild, Ph.D.

Associate Professor

Department of Biomedical Engineering

IUPUI School of Engineering & Technology

-----Original Message-----

From: Chen, Jie

Sent: Monday, May 15, 2006 3:02 PM

To: Schild, John H

Subject: RE: CNT Degree Title Change Proposal

I approve the change.: Jie Chen
Yes it is good. : Daphene Cyr Koch
I approve. : Jack Zecher
Approve: Connie Justice
I approve: Barbra Christe
I vote yes for the change: Stanley Chien
I vote yes to approve the name change: Darrell D Nickolson
I approve: M. Razi Nalim
Approve: Wanda L. Worley
I vote in favor: Nancy Lamm
I vote yes. : Russ Eberhart (for Brian King)
I APPROVE the new degree title "Construction Engineering Management Technology" : Sohel Anwar
I am fine with the most recent suggested changes approved by CNT: Charlie Feldhaus
approve : Salama, Paul

-----Original Message-----

From: Schild, John H

Sent: Monday, May 15, 2006 2:59 PM

To: Chu, Tien-Min Gabriel; Watson, William; Price, Timothy W.; Justice, Connie F; Catlin, Sally; Kinsey, Brian; Koch, Daphene Cyr; Cowan, Jan; King, Brian; Salama, Paul; Chien, Yung-Ping (Stanley); Christe, Barbara L; Brown, James K; Lamm, Nancy P; Chen, Jie; Anwar, Sohel; Nalim, Mohamed Razi; Zecher, John E.; Pellerano Jr, Armando; Feldhaus, Charles R; Worley, Wanda L.

Cc: Schild, John H

Subject: CNT Degree Title Change Proposal

Senators,

You may remember that at our last meeting we voted on a proposed name change for CNT. You may also remember that we rejected the name change and sent this business back to the Undergraduate Education Committee for further consultation with the CNT Department.

The Chair of the UGE committee has informed me that a new title change has been approved by her committee AND that the CNT Department is in complete agreement with the following wording (see e-mail trail below my signature):

"Construction Engineering Management Technology" as the new degree title for both the A.S. and B.S. degrees.

I now open the floor for discussion and/or receipt of your vote. Please respond only to me and I will moderate any discussion so as to keep this process efficient.

I understand this is a bit unusual. Normally we would wait for the UGE committee to report at the next Senate meeting. But this could not happen until September, 2006 and CNT desperately needs to get the paper train moving. And I am sure you are all aware how fast that locomotive moves.

If you have no discussion or comments for the Senate, then please e-mail me indicating that you APPROVE or DISAPPROVE of this proposed name change.

peace,
jhs

John H. Schild, Ph.D.
Associate Professor
Department of Biomedical Engineering
IUPUI School of Engineering & Technology

-----Original Message-----

From: Justice, Connie F
Sent: Monday, May 15, 2006 11:58 AM
To: Schild, John H; Rennels, Kenneth E
Cc: Yurtseven, H. Oner
Subject: FW: CNT Degree Title Change Proposal
Importance: High

John and Ken,

An electronic vote took place yesterday and today. 6 out of the 8 voting members voted yes. 2 did not respond.

So, I respectfully request that the Faculty Senate approve Construction Engineering Management Technology as the new degree title for both the A.S. and B.S. degrees.

Connie Justice

-----Original Message-----

From: Justice, Connie F
Sent: Sunday, May 14, 2006 9:29 AM
To: Rennels, Kenneth E; Schild, John H; Alfrey, Karen; Berbari, Edward J.; Chien, Yung-Ping (Stanley); Christe, Barbara L; Cowan, Jan; Ecer, Akin; Goodwin, Clifford R; Justice, Connie F; Klein, Betty; Lamm, Nancy P; Lucas, Laura M; Workman, Jamie K
Cc: Yurtseven, H. Oner; Christe, Barbara L
Subject: CNT Degree Title Change Proposal
Importance: High

All,

There seems to be some confusion on what we voted on in the Undergraduate Education Policy Committee meeting April 26, 2006. What was brought before the Faculty Senate, May 9, 2006, was Construction Management Engineering and Technology. The Faculty Senate rejected this and has asked that we take another look. The Faculty Senate proposed "Construction Engineering Management Technology" as a possible solution. So I would like to request a vote on a CNT new degree title.

I would like to motion that we approve Construction Engineering Management Technology as the new degree title for both the A.S. and B.S.

Is there any discussion?

If not, I would like to request an email vote on this matter.

Those in favor of accepting Construction Engineering Management Technology as the new title please signify by a yes vote, those not in favor please signify by a no vote.

Please respond with issues you would like to discuss and/or your vote.

Thank you,

Connie