

UNIVERSITY SENATE
Fourth Meeting, Monday, 28 January 2008, 2:30 p.m.
Room 302, Stewart Center

AGENDA

1. Call to order Professor George M. Bodner
2. Approval of Minutes of 19 November 2007
3. Acceptance of Agenda
4. Remarks by the President President France A. Córdova
5. [Report of the Chairperson](#) Professor George M. Bodner
6. [Résumé of Items Under Consideration](#)
by Various Standing Committees For Information
Professor Raymond A. DeCarlo
7. Question Time
8. [University Senate Document 07-5](#)
Change to the University Academic Regulations For Action
Professor James D. McGlothlin
9. [University Senate Document 07-6](#)
Evening Examination Schedule For Discussion
Professor James D. McGlothlin
10. [University Senate Report 07-1](#)
University Policy on Research Misconduct For Information
Professor George M. Bodner
11. [University Senate Report 07-2](#)
Interpretation of Policy on Intellectual Property For Information
Professor George M. Bodner
12. [University Budget Presentation](#) For Information
Vice President and Treasurer Morgan Olsen
13. New Business
14. [Memorial Resolutions](#)
15. Adjournment

UNIVERSITY SENATE

Fourth Meeting, Monday, 28 January 2008, 2:30 p.m.
Room 302, Stewart Center

Present: *George M. Bodner, (Chairperson of the Senate) presiding, Professors Christopher R. Agnew, David C. Anderson, Alan M. Beck, James C. Becker, Antonio Bobet, James E. Braun, Becky Brown, Bernd Buldt, Donald D. Buskirk, Patrice M. Buzzanell, Stephen R. Byrn, Joseph W. Camp Jr. (Secretary of Faculties and Parliamentarian), Natalie J. Carroll, Steve H. Collicott, Raymond A. DeCarlo, Shawn S. Donkin, Phillip S. Dunston, Nancy E. Edwards, Scott L. Feld, Joan R. Fulton, William G. Graziano, James P. Greenan, Chong Gu, Tony Hawkins, Jeffrey D. Holland, Daniel Hsieh, Gerald C. Hyner, James L. Jenkins, Richard Johnson-Sheehan, Karen I. Kirk, Joseph F. Kmec, Ananthanarayan Krishnan, Robert A. Kubat, Christine M. Ladisch, Daniel E. Leaird, Morris Levy, Andrew U. Luescher, Scott Mandernack, Julie R. Mariga, James D. McGlothlin, William D. McInerney, Samuel P. Midkiff, Joseph D. Mikesell, Mark T. Moriarty, P. Jane Morris (Sergeant at Arms), Rabindra N. Mukerjea, Cindy H. Nakatsu, Mary B. Nakhleh, Morgan R. Olsen, Alyssa Panitch, Teri Reed-Rhoads, J. Paul Robinson, Alysa C. Rollock, Charles R. Santerre, John A. Sautter, A. Paul Schwab, Thomas M. Sellke, Louis A. Sherman, Robert Skeel, Glenn Sparks, A. Charlene Sullivan, Bernard Y. Tao, Elizabeth J. Taparowsky, Marion T. Trout, Eric Van Houten, Samuel S. Wagstaff, Whitney Walton, Mara H. Wasburn, Charles W. White, David J. Williams, G. Thomas Wilson, Yuehwern Yih, Howard Zelaznik and William J. Zinsmeister.*

Absent: *President France A. Córdova, Professors Olayiwola Adeola, Howard Adler, Jai P. Agrawal, John E. Blendell, Charles A. Bouman, Lawrence W. Braile, Andrew S. Buckser, Christian E. Butzke, Anindo Chatterjee, Christine L. Corum, Wei K. Cui, Martin Curd, Lawrence P. DeBoer, John P. Denton, Joseph C. Dorsey, Charlotte Erdmann, John Grutzner, Steven G. Hallett, Kristine Holtvedt, L. Douglass F. Jacobs, Robert J. Joly, D. J. Kovenock, Michael L. Leasure, Victor L. Lechtenberg, William G. McCartney, Robert D. Plante, Robert E. Pruitt, Gintaras V. Reklaitis, Tom B. Robinson, Carolyn Roper, S. Santhanakrishnan, Jie Shen, Volker K. Thomas, Lefteri H. Tsoukalas, Phillip J. VanFossen, Val J. Watts, Herbert L. Weith, and S. Laurel Weldon*

Guests: *Valerie O'Brien, Yvonne Nash, Tim Skvarenina and Bob Walkup.*

1. The meeting was called to order by the chairperson of the senate, Professor George M. Bodner at 2:35 p.m.
2. The minutes of the meeting of 19 November 2007 were approved as distributed.
3. The agenda was presented and accepted by acclamation.
4. President France A. Córdova was not in attendance and no remarks were presented.
5. Professor Bodner presented the report of the chairperson (see Appendix A). Professor Bodner briefly mentioned two reports to the Senate; University Senate Report 07-1, *University Policy on Research Misconduct*, and University Senate Report 07-2, *Interpretation of Policy on Intellectual Property*.

6. Professor DeCarlo presented, for information, the Résumé of Items under Consideration by Various Standing Committees (see Appendix B). Professor Carroll reminded the Senators that candidates for the Vice Chair of the Senate will be presented at the February meeting. Any interested Senators should notify Professor Carroll as soon as possible.
7. At question time the secretary reported no questions had been submitted in writing and the chair invited questions from the floor.
8. Professor McGlothlin presented, for action, Senate Document 07-5, *Change to the University Academic Regulations*. Professor Sullivan seconded the motion. Professor McGlothlin proposed a friendly amendment to remove the following wording that had inadvertently been left in the document: ... “or first 12 months of the transfer student’s enrollment as a full-time or part-time degree student,…” The Senate accepted this friendly amendment and the words were stricken from the document. Professor McGlothlin noted that copies of discussion points from the Educational Policy Committee (EPC) meetings were at each Senator’s seat. Professor Feld opened the discussion of the document by making a motion to amend the document by removing all of the wording of the document following the word “undergraduate” in the first sentence of the second paragraph (see Appendix C). His motion was seconded. Professor Feld elaborated on his reasons for the amendment by reiterating the points he made at previous Senate meetings including the 19 November 2007 meeting. Mr. Robert Walkup, head advisor of Health Sciences, spoke to the importance of having a forgiveness policy to benefit students in the various programs at Purdue University. He mentioned that Syracuse University has a forgiveness policy. Professor DeCarlo stated that he had previously spoken in favor of a forgiveness policy, but he currently believes that the current 10-week drop period is sufficient for students. Furthermore, allowing 12 hours of forgiveness is too arbitrary and would be open to abuse by the students. Professor Zelaznik said that the GPA should be an accurate reflection of the entire corpus of the student’s work and the forgiveness policy would not be accurate. He suggested that forgiveness could be achieved in other ways. Professor Luescher reminded the Senators that if a student’s GPA is too low, s/he cannot move to another college/school within the university. Furthermore, this document has been worked on by the EPC for seven years and is a most practical way to accomplish forgiveness within the current framework. There are already numerous restraints built into the document that will prevent abuse by students. Professor White simply said “don’t dink around with the true grade index.” Professor Bodner concurred that there were restraints built into the document. Professor Yih suggested that the two separate issues, GPA and forgiveness, should be uncoupled and dealt with individually. Each school or college should define their individual forgiveness policy. Professor Luescher said that the EPC had considered this course of action, but the administration said it could not be done. Professor Fulton spoke in favor of the amendment because we should consider the situation as it is today and not as it was in the past. Professor Levy asked the question “If OnePurdue was adequate, would we even be having this discussion?” Professor Bodner said “no.” Professor Levy emphasized that we should not be dictated to by the constraints of the software. Professor Zelaznik said that the Senate had in the past managed to pass documents which were converted into policy in spite of administration statements they could not be done. For example, the switch from the 6.0 grade scale to the 4.0 grade scale. Senator Van Houten, President of the Purdue Student Government, spoke in student of the policy and that the student government supported a forgiveness policy. He asked that the Senators move away from the image of abusive students and

the vast majority of students at Purdue University did not try to abuse the system. Professor Panitch asked about the ability of the Banner system to calculate both a cumulative GPA and a major GPA. Registrar Kubat stated that the Banner system could do that, but it would require modification of the software. Professor Luescher asked if the major GPA was stored. Registrar Kubat stated that it was not stored, but could be viewed at a given point in time. Professor Gu asked if we should accept the GPA and forgiveness policy together or separate them. Professor Krishnan asked if the system could determine a real GPA and a forgiveness GPA. Registrar Kubat stated that the system cannot do that and it would cost approximately \$250,000 to modify the system to calculate both. An additional annual maintenance fee of \$50,000 be needed following such a change. Mr. Walkup stated that the advisors are still using the old system of redlining and this sudden, marked change in policy will shock the students. Professor Kmec asked if there was a way to charge students for the changes. This idea was not looked upon with favor. Professor Buldt provided his perspective as one who was educated outside the university system of the United States. He questioned whether the GPA actually represents something tangible? He said that research suggests otherwise. The current discussion was based on the assumption that the GPA is something of substance and he does not think it is of substance. Professor McGlothlin stated that he was honored to serve the students and that the Registrar's Office needs help with the issue now. The original document was prepared to do just that. Professor Feld ended the discussion by stating that he does not want the Senate to be seen as for or against students. Schools and colleges can still count a specific course when they accept a CODO. Each school or college has its own policy now, but this should be a separate discussion. Professor Bodner said that it was time for the vote and called for a show of hand in favor of the amendment followed by those opposed to the amendment. The vote was 31 in favor of the amendment and 27 opposed with 2 abstentions. The amendment passed.

The discussion shifted to the amended document and continued for a period of time. Before a vote was taken, Professor Sullivan asked Professor Bodner to determine if a quorum was still present. It was determined that only 47 Senators were present and the vote on the amended document was postponed until the February 2008 Senate meeting.

9. Professor McGlothlin presented, for discussion, University Senate Document 07-6, *Evening Examination Schedule*. The rationale for this document was included in an introductory paragraph.
10. Vice President Morgan Olsen gave a presentation on the University budget process to the Senate (Appendix D).
11. One memorial resolution had been received for Forrest W. Quackenbush, Professor Emeritus of Biochemistry. At the Chair's invitation, the Senators rose and remained standing for a period of silence out of respect for their departed colleague.
12. The meeting adjourned at 4:40 p.m.

REPORT TO THE UNIVERSITY SENATE - PROFESSOR GEORGE M. BODNER

Good afternoon and welcome to the fourth meeting of the University Senate for the 2007-2008 academic year. Let me start by noting that we will not have our usual "Remarks by the President" because both France Córdova and Vic Lechtenberg are in Dubai to discuss the creation of a Purdue program located within this portion of the United Arab Emirates. We do have, however, a presentation by Vice President and Treasurer Morgan Olsen on the university budget as part of today's agenda.

Once again, it is a pleasure to note that we have a full agenda for the meeting. Full enough that the Steering Committee has decided to put off until the February meeting items that could have been added to today's meeting. We have every reason to expect that the agenda for the February meeting will be full as well.

The Board of Trustees has met once since the last Senate meeting, on December 15th, 2007. One of the actions at that meeting was to name Robert Proctor a Distinguished Professor of Psychological Sciences. The Board also voted to name G. V. (Rex) Reklaitis as the Edward W. Comings Distinguished Professor of Chemical Engineering.

A significant portion of this meeting was devoted to a joint presentation on Large Scale Research: Discovery, Development and Delivery by Joseph Hornett, Senior Vice President, Treasurer and COO of the Purdue Research Foundation and Alan Rebar, Senior Associate Vice President for Research. As I have noted previously, a complete set of the PowerPoint slides used in presentations such as this can be found on the Board of Trustees website.

This presentation noted that Purdue ranked in the middle of the eleven Big Ten institutions in total research expenditures (excluding medical fields) in FY 2003. We were in the same position for FY 2006, but much closer to 5th place. One of the distinguishing features of our research funding in recent years has been an unusually large amount of support from industry (34.7% of the total awards for 2006-2007).

A significant amount of attention was paid to the increase in the number of start-up companies in which Purdue faculty are involved and the number of patents filed in recent years. Attention was also paid to the issue of increasing the connection between Discovery Park, as a center for innovation, and the Purdue Research Park, as center for commercialization, to provide a mechanism for discovery, development and delivery from the laboratory to the market place. This presentation noted that the Purdue Research Park is significantly larger than the average university-sponsored research park in almost any metric one applies. It is roughly four times as large as the average university research park in terms of both number of employees and square feet of available space, for example. The Purdue Research Park has a significant economic impact through 146 companies, 100 technology-based firms, 2754 employees with an average salary above \$50,000, and \$100 million of invested venture capital. This report also noted the formation of an I-65 Technology Corridor, connecting Purdue Technology Centers in Northwest Indiana, Indianapolis, and Southeast Indiana with the Purdue Research Park in West Lafayette.

Attention was paid in this report to the growth in the number of 1-5 million dollar grants obtained at Purdue in recent years, as well as larger scale grants that have recently been received from the Ewing Marion Kauffman Foundation, the Regenstrief Foundation, the NSF-funded

Engineering Research Centers in Efficient Fluid Power and Pharmaceutical Manufacturing, and the NIH NCI funded center for Clinical Proteomic Technology Assessment for Cancer. There was also a significant discussion of lessons learned from recent failures in efforts to obtain mega-grant (\$100-500 million) projects.

During the Board of Trustees meeting, Kelly McMains, Purdue Student Government President Pro Tempore, gave a presentation that focused on the Co-Rec. She noted that it was built in 1957, that it ranks last in the Big Ten in square feet per student, that 83% of the students recently surveyed believed it is overcrowded, and that 91% of the students believe that the renovation of Co-Rec should be a top priority. She argued that the Co-Rec is undersized, outdated, and unable to accommodate needs.

During today's meeting, we have Document 07-5 from the Educational Policy Committee on changes to the University Academic Regulations for action. We also have a document from the EPC on changes to the evening examination schedule for discussion.

Copies of two reports to the Senate for information were put at each senator's place prior to this afternoon's meeting. University Senate Report 07-1 is a draft of a new version of Executive Memorandum C-22, which outlines the university policy on research misconduct. The primary goal of this revision is to make university policy consistent with changes in federal regulations in this area. This draft has been circulated to regional campus chancellors and the heads of schools, departments, and centers for their input before a final version is brought to the Board of Trustees for approval. Discussions I have had with representatives of the Office of the Vice President for Research led me to distribute the draft of the new version of C-22 to members of the Senate for their comment, and for discussion within the academic units of the university. Please recognize that this is a *draft* of the new document for comment, not a statement of the new policy. Comments that are made in a timely manner have the potential for having a significant impact on the final language that will be brought to the Board of Trustees. On the basis of suggestions made at a meeting of the Steering Committee two weeks ago, I have volunteered to collect and forward comments and suggestions in an anonymous fashion to the individuals who will eventually bring the document to the Board of Trustees.

You should also have a copy of University Senate Report 07-2, which is for information as well. This document contains a draft of language that has been proposed to guide the interpretation of Executive Memorandum B-10, which states the university policy on intellectual property that was approved by the Board of Trustees last May. The goal of this document is to resolve some of the issues and concerns that were raised by a number of faculty when they became aware of new policy on intellectual property last Fall. On the basis of discussions with a number of these individuals, I have become convinced that this document addresses and resolves many of their concerns. Once again, remember that this is a draft document, for comment. Furthermore, once again, I have volunteered to collect and forward comments and suggestions that I receive in an anonymous fashion to the individuals involved in drafting this document.

Before we turn to the first item for business, I have one request. If you choose to send me comments about either of these documents by Email, please include in the subject line either "IP" or "C-22" so that I will know to which document you are addressing your comments and suggestions.

Respectfully submitted,
George Bodner
Chair, University Senate

TO: University Senate
FROM: Ray DeCarlo, Chairperson, Steering Committee
SUBJECT: Résumé of Items under Consideration by the Various Standing Committees

STEERING COMMITTEE

Raymond A. DeCarlo, Chairperson
decarlo@purdue.edu

The primary responsibility of the Steering Committee is the organization and distribution of the agenda for each meeting of the University Senate. This committee also receives communications from any faculty member or group of members and directs such communications to appropriate committees or officers for attention.

ADVISORY COMMITTEE

George M. Bodner, Chairperson of the Senate
gmbodner@purdue.edu

The responsibility of the University Senate Advisory Committee is to advise the President and/or Board of Trustees on any matter of concern to the faculty.

NOMINATING COMMITTEE

Natalie J. Carroll, Chairperson
ncarroll@purdue.edu

The Nominating Committee is responsible for presenting nominations for the University Senate and University committees. In filling committee vacancies the Nominating Committee seeks to have all interested Senators serve on at least one committee.

EDUCATIONAL POLICY COMMITTEE

James D. McGlothlin, Chairperson
jdm3@purdue.edu

1. Evening exams
2. Implementation of Redlining Policy
3. Faculty Control over University Curriculum
4. Teaching Evaluation
5. Honors Program Report to the EPC

FACULTY AFFAIRS COMMITTEE

David J. Williams, Chairperson
djw@purdue.edu

1. Faculty Scholarship for Staff, Spring Semester 2008
2. Potential changes to Panel A
3. CIC Statement on Publishing Agreements
4. Dissolution of Collective Bargaining Committee

STUDENT AFFAIRS COMMITTEE

Lee Weith, Chairperson
weith@purdue.edu

1. Review of the Student Bill of Rights
2. Follow-up concerning the Student Conduct Code
3. Follow-up with Student Services Office concerning disciplinary process

UNIVERSITY RESOURCES POLICY COMMITTEE

Morris Levy, Chairperson
levy0@purdue.edu

1. Faculty input into the budgetary process: enhancing excellence in research and graduate education
2. Review of campus energy sufficiency and other Physical Facilities operations
3. Review of Faculty Committees
4. Review of ITaP proposal to discontinue dial-up service for the Purdue community.

Chair of the Senate, George M. Bodner, gmbodner@purdue.edu
Vice Chair of the Senate, Raymond A. DeCarlo, decarlo@purdue.edu
Secretary of the Senate, Joseph W. Camp, Jr., jcamp@purdue.edu
University Senate Minutes; <http://www.purdue.edu/usenate>

CALENDAR OF STATUS OF LEGISLATION
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SENATE DOCUMENT	TITLE	ORIGIN	SENATE
*07-1	University Limits on Clinical/Professional Faculty	Faculty Affairs Committee	Approved 10/15/07
*07-2	Proposed Parental Leave Policy	Faculty Affairs Committee	Passed 11/19/07
07-3	Change to the University Senate Bylaws	Professor and Chair, George M. Bodner	Defeated 10/15/07
*07-4	Reapportionment of the Senate	Professor and Vice Chair, Raymond A. DeCarlo	Passed 11/19/07
07-5	Change to the University Academic Regulations	Professor James D. McGlothlin	Amended 1/28/08
07-6	Evening Examination Schedule	Professor James D. McGlothlin	For Discussion 2/18/08

***Approved**

TO: The University Senate
FROM: University Senate Educational Policy Committee (EPC)
SUBJECT: Change in University Academic Regulations
DISPOSITION: University Senate for Discussion
REFERENCES: University Regulations 2007-08, Section II, Academic Program, Part J

Introduction

At the October 2005 Senate meeting University Senate Document 05-3 *Proposed change to University Regulations* was approved. This document addressed student abuses of the “redlining” or grade index adjustment policy. Redlining was the term used to describe what happens when grades in certain courses are deleted from students’ GPA during the Change of Degree Objective (CODO) process by which students move from one School or College to another. The term “redlining” comes from the practice of crossing out the deleted courses with red ink on the form that was sent to the Registrar’s Office. This practice dates back to the mid-1960s. The official term for this process was “index adjustment.”

In 2006, the issue of redlining dominated EPC discussions from the very first meeting in the fall well into the spring of 2007. The first document brought to the University Senate by the EPC resulted in the decision to eliminate the existing redlining policy. The EPC was then asked to draft an alternative form of index adjustment, which was brought to the Senate for action and adopted.

In the spring of 2007 the EPC was given the charge from the Senate to resolve the index adjustment issue because of its potential adverse impact on the implementation of SunGard Banner as the student services component of the OnePurdue system. At the heart of the issue was that Banner could report two but not three of the student grade indices. When EPC Chair Jim McGlothlin met with the Registrar’s office it was determined that all three scholastic indices, **the semester index, the cumulative index, and the graduation index**, could be reported but at an approximate cost of \$250,000 dollars (approximately 1076 hours of work) for the first year and approximately \$50,000 dollars annual maintenance fee, and would increase as the overall SunGard maintenance contract increases, following the implementation of Banner. The Chair reported this finding to the EPC in the fall of 2007 and it was determined that reporting all 3 indices would be cost prohibitive. It was further reasoned that the two scholastic indexes of most value on the student’s transcript would be the **semester index** and the **cumulative index**. However, with the new Banner system in place the **graduation index** could be determined by using the Banner degree audit system.

The EPC presents to the Senate the Proposed Text in Document 07-5 because it offers fairness in showing all courses and grades on the student’s transcript, yet offers up to 12 credits of index adjustment for students who may need time in their first 2 years at Purdue to further develop their academic strengths and abilities. By a majority vote, the EPC brings the following proposed changes in the University Rules and Regulations to the Senate for action.

Present	Proposal
<p data-bbox="203 222 440 247">J. Scholastic Indexes*</p> <p data-bbox="203 249 732 359">The scholastic standing of all students enrolled in programs leading to a degree shall be determined by three scholastic indexes: the semester index, the cumulative index, and the graduation index.</p> <ol data-bbox="203 388 732 1371" style="list-style-type: none"> <li data-bbox="203 388 732 497">1. The semester index is an average determined by weighting each grade received during a given academic session by the number of semester hours of credit in the course. <li data-bbox="203 527 732 879">2. The cumulative index for an undergraduate student is a weighted average of all grades received as an undergraduate student. With the consent of his/her academic adviser, a student may repeat a course not intended for repeated registrations. In the case of such a repeated course, only the most recent grade received shall be included in the cumulative index. In the case of a course in which a conditional grade has been improved by examination the most recent grade received shall be used. The cumulative index will be used by the University for reporting to external agencies. <li data-bbox="203 909 732 1371">3. The graduation index will be a modified form of the cumulative index and will be used by the University for all internal purposes. An authorized representative of the academic unit in which the student is registered or in which the student will be registered may approve the removal of no more than three courses totaling no more than 12 credit hours from the calculation of the graduation index under the following conditions: (1) the courses were completed during the first 24 months of the student's enrollment as a full-time or part-time degree-seeking student, and (2) the courses are not required for the curriculum in which the student is enrolled. Courses that have been removed from the calculation of the graduation index can not be used to fulfill any requirements for graduation. 	<p data-bbox="782 222 1019 247">J. Scholastic Indexes*</p> <p data-bbox="782 249 1328 359">The scholastic standing of all students enrolled in programs leading to a degree shall be determined by two scholastic indexes: the semester index, and the cumulative index.</p> <ol data-bbox="782 388 1328 1291" style="list-style-type: none"> <li data-bbox="782 388 1328 497">1. The semester index is an average determined by weighting each grade received during a given academic session by the number of semester hours of credit in the course. <li data-bbox="782 527 1328 1291">2. The cumulative index will be a weighted average of all grades received as an undergraduate with the possibility of the following adjustments. An authorized representative of the academic unit in which the student is registered or in which the student will be registered may approve the permanent removal of no more than three courses totaling no more than 12 credit hours from the calculation of the cumulative index. under the following conditions: (1) the courses were completed during the first 24 months of the beginning student's enrollment as a full-time or part-time degree-seeking student, or first 12 months of the transfer student's enrollment as a full-time or part-time degree-seeking student, and (2) the courses removed must not be required for the curriculum in which the student is enrolled or will be enrolled.* Courses that have been removed from the calculation of the cumulative index cannot be reinstated or be used in the undergraduate program of study. With the consent of his/her academic adviser, a student may repeat a course not intended for repeated registrations. In the case of such a repeated course, only the most recent grade received shall be included in the cumulative index. In the case of a course in which a conditional grade has been improved by examination the most recent grade received shall be used. <p data-bbox="782 1320 1328 1430">* A course is considered required if it is listed by subject abbreviation and number in a program of study. Courses listed in a group of two or more to fulfill a requirement may be adjusted.</p>

Approving:

Steven H. Collicott
John B. Grutzner
L. Tony Hawkins
Robert A. Kubat
Christine M. Ladisch
Andrew Luescher
Scott B. Mandernack
James D. McGlothlin
Mark M. Moriarty
Glenn G. Sparks
Douglas Cook (student)
Justin Nelson (student)

Absent:

Olayiwola Adeola
Scott L. Feld
James L. Jenkins
Victor L. Lechtenberg
J. Paul Robinson
Jonathan Sandhu (student)

**Appendix C
28 January 2008**

Amendment to University Senate Document 07-5

TO: The University Senate
FROM: Scott Feld, Professor of Sociology
SUBJECT: Amendment to proposed Change in University Academic Regulations, Senate Document 07-5
DISPOSITION: University Senate for Discussion and Adoption
REFERENCES: Modification of University Regulations 2007-08, Section II, Academic Program, Part J as Proposed by the EPC, November, 2007.

My Amendment is simply to strikeout all text following the first phrase in section 2.

Present	Amended Proposal
<p data-bbox="203 220 438 245">J. Scholastic Indexes*</p> <p data-bbox="203 247 730 352">The scholastic standing of all students enrolled in programs leading to a degree shall be determined by three scholastic indexes: the semester index, the cumulative index, and the graduation index.</p> <ol data-bbox="203 388 730 1375" style="list-style-type: none"> <li data-bbox="203 388 730 493">1. The semester index is an average determined by weighting each grade received during a given academic session by the number of semester hours of credit in the course. <li data-bbox="203 525 730 871">2. The cumulative index for an undergraduate student is a weighted average of all grades received as an undergraduate student. With the consent of his/her academic adviser, a student may repeat a course not intended for repeated registrations. In the case of such a repeated course, only the most recent grade received shall be included in the cumulative index. In the case of a course in which a conditional grade has been improved by examination the most recent grade received shall be used. The cumulative index will be used by the University for reporting to external agencies. <li data-bbox="203 903 730 1375">3. The graduation index will be a modified form of the cumulative index and will be used by the University for all internal purposes. An authorized representative of the academic unit in which the student is registered or in which the student will be registered may approve the removal of no more than three courses totaling no more than 12 credit hours from the calculation of the graduation index under the following conditions: (1) the courses were completed during the first 24 months of the student's enrollment as a full-time or part-time degree-seeking student, and (2) the courses are not required for the curriculum in which the student is enrolled. Courses that have been removed from the calculation of the graduation index can not be used to fulfill any requirements for graduation. 	<p data-bbox="787 220 1023 245">J. Scholastic Indexes*</p> <p data-bbox="787 247 1323 352">The scholastic standing of all students enrolled in programs leading to a degree shall be determined by two scholastic indexes: the semester index, and the cumulative index.</p> <ol data-bbox="787 388 1323 1291" style="list-style-type: none"> <li data-bbox="787 388 1323 493">1. The semester index is an average determined by weighting each grade received during a given academic session by the number of semester hours of credit in the course. <li data-bbox="787 525 1323 1291">2. The cumulative index will be a weighted average of all grades received as an undergraduate. with the possibility of the following adjustments. An authorized representative of the academic unit in which the student is registered or in which the student will be registered may approve the permanent removal of no more than three courses totaling no more than 12 credit hours from the calculation of the cumulative index, under the following conditions: (1) the courses were completed during the first 24 months of the beginning student's enrollment as a full-time or part-time degree-seeking student, or first 12 months of the transfer student's enrollment as a full-time or part-time degree-seeking student, and (2) the courses removed must not be required for the curriculum in which the student is enrolled or will be enrolled.* Courses that have been removed from the calculation of the cumulative index cannot be reinstated or be used in the undergraduate program of study. With the consent of his/her academic adviser, a student may repeat a course not intended for repeated registrations. In the case of such a repeated course, only the most recent grade received shall be included in the cumulative index. In the case of a course in which a conditional grade has been improved by examination the most recent grade received shall be used. <p data-bbox="787 1323 1323 1428">* A course is considered required if it is listed by subject abbreviation and number in a program of study. Courses listed in a group of two or more to fulfill a requirement may be adjusted.</p>

Rationale for the Proposed Amendment:

The Faculty Senate voted to eliminate grade adjustments in cumulative GPAs on transcripts in its last meeting of 2005.

In a subsequent meeting, the Faculty Senate voted to allow a shadow GPA for internal purposes only.

Since then, it has been determined that maintaining and reporting two cumulative GPAs simultaneously would be impractical and confusing.

The EPC is now proposing to only maintain a grade adjusted GPA on the transcript (with a focus on specified limitations on permissible adjustments.).

The various rationales for providing an unadjusted cumulative GPA (and eliminating grade adjustments altogether) then as now are:

- 1) Grade adjustments may be perceived as misleading and confusing, when transcripts report a cumulative GPA that excludes certain course grades listed on the transcript. The asterisks and separate explanatory notes currently included tend to be overlooked.
- 2) All grades that are earned and given by faculty at Purdue should count as part of a student's permanent recorded GPA (unless a course is retaken and the grade thus replaced). Students who exclude grades should not be given advantages over students who include all their grades.
- 3) Research indicates that no comparable universities in the Big Ten or elsewhere have a policy of grade adjustments that excludes grades on transcripts from the reported GPA.
- 4) The NCAA requires that GPAs reported to them do not exclude any course grades earned at Purdue—they explicitly disallow grade adjustments.
- 5) While it is legitimate for faculty to consider some form of student forgiveness, especially for freshmen, the issue of the nature and extent of appropriate forgiveness can be treated directly and separately from transcript GPA grade adjustments.

Respectfully submitted,

Scott Feld

Professor of Sociology

TO: The University Senate
FROM: University Senate Educational Policy Committee (EPC)
SUBJECT: Change in University Scheduling of Evening Exam Regulations
DISPOSITION: University Senate for Discussion
REFERENCES: University Regulations 2007-08, Section II, Academic Program, Part J

Introduction

Based on increasing demand for the administration of evening exams the Educational Policy Committee (EPC) worked with the Registrar's office to address this issue. The EPC was sensitive to avoiding conflicts with course offerings at the end of the day and to the security and safety issues of the students. The changes in scheduling included space availability and event planning such as the Purdue Christmas Show at Elliott Hall. Based on these considerations the earliest evening exams would be offered is 6:00 pm and the latest they would end is 10:00 pm.

Present	Proposal
<p data-bbox="215 226 834 296">Part 2- Section XI – Scheduling of Examinations Section A. Evening Examinations</p> <p data-bbox="215 327 326 359">Current:</p> <p data-bbox="256 363 834 762">5. Evening examinations may be scheduled during either of the following periods: 7 to 8 pm 8:30 to 9:30 pm As an exception, when the Hall of Music, Loeb Playhouse, or Fowler Hall is used for two examinations in a single evening, the examinations are to be scheduled for the following periods: 6:30 to 7:30pm 8:30 to 9:30pm</p> <p data-bbox="354 968 792 1098">In all cases, the testing period should be restricted to 60 minutes, unless a multiple-period evening examination has been requested.</p> <p data-bbox="256 1199 834 1566">9.b. Examinations coincident with convocations, intercollegiate athletic events, and student activities will be avoided if possible; but if necessary, such examinations may be scheduled on the premise that the examination process takes priority over any of these events. In this case, the Office of the Registrar has the authority to start the first period of evening exams as early as 6:30pm.</p>	<p data-bbox="834 226 967 258">Proposed:</p> <p data-bbox="875 262 1421 961">5. Evening examinations may be scheduled during either of the following periods: <i>6:30 to 7:30pm</i> <i>8 to 9pm</i> As an exception, when the Hall of Music, Loeb Playhouse, or Fowler Hall is used for two 60-minute examinations in a single evening, the examinations are to be scheduled for the following periods: 6:30 to 7:30pm 8:30 to 9:30pm <i>Start times in these locations will change to 6:00pm and 8:00pm respectively on those occasions when they are scheduled for a 60 minute exam and an exam which exceeds 60 minutes. Requests for more than 60 minutes will be scheduled to start at the later hour.</i></p> <p data-bbox="948 968 1421 1161">In all cases, the testing period should be restricted to 60 minutes, unless a multiple-period evening examination has been requested. <i>Requests for more than 60 minutes will be scheduled to start at the later hour.</i></p> <p data-bbox="834 1199 1421 1566">9.b. Examinations coincident with convocations, intercollegiate athletic events, and student activities will be avoided if possible; but if necessary, such examinations may be scheduled on the premise that the examination process takes priority over any of these events. In this case, the Office of the Registrar has the authority to start the first period of evening exams as early as <i>6 pm.</i></p>

Introduction

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Present	Proposal
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Approving:

Steven H. Collicott
Scott L. Feld
John B. Grutzner
L. Tony Hawkins
Robert A. Kubat
Scott B. Mandernack
Mark M. Moriarty
Christine M. Ladisch
Andrew Luescher
James D. McGlothlin
Glenn G. Sparks
Douglas Cook (student)
Justin Nelson (student)

Absent:

Olayiwola Adeola
James L. Jenkins
Victor L. Lechtenberg
J. Paul Robinson
Jonathan Sandhu (student)

University Senate Report 07-1
28 January 2008

To: The University Senate
From: Professor George M. Bodner
Subject: Policy on Research Misconduct
References: Revised Executive Memorandum C-22; Policy on Integrity in Research
Disposition: Report to the Senate

Purdue's current Policy on Research Integrity, Executive Memorandum C-22, was adopted on September 6, 1991, and has not been modified in the intervening years. The policy was adopted in response to a requirement that institutions receiving research funds from the National Institutes of Health and National Science Foundation must implement and enforce policies to ensure the integrity of research and to respond to allegations of research misconduct.

In 2000, the Office of Science and Technology Policy issued a new federal-wide policy on research misconduct which agencies conducting and sponsoring research were instructed to implement. This new federal-wide policy included a revised definition of research misconduct and included several significant revisions to policy and procedure. Since 2000, many federal sponsors of Purdue research have implemented the new federal-wide policy. During 2006, the Department of Health and Human Services' Office of Research Integrity issued its revised final rule on responding to allegations of research misconduct including the most detailed specifications for procedure issued by a federal agency to date.

During the past year, a series of circumstances has served to highlight a number of shortcomings of the procedures specified by Executive Memorandum C-22, and provided strong incentives to review and revise C-22 to implement the requirements of the revised federal-wide policy and address other procedural concerns with Purdue's current policy. Collaboration between representatives of the Office of Vice President for Research and the University Counsel led to the attached draft of a revised version of this executive memorandum, which is ready for review and comment by the Purdue community before it is presented to the Board of Trustees for action.

All comments should be sent to Peter E. Dunn, Associate Vice President for Research.

University Senate Report 07-2
28 January 2008

To: The University Senate
From: Professor George M. Bodner
Subject: Interpretation of Policy on Intellectual Property
References: Revised Executive Memorandum B-10: Teaching, Research, and
Outreach Policy on Intellectual Property
Disposition: Report to the Senate

At the May 2007 meeting, the Board of Trustees approved a revised version of Executive Memorandum B-10 that dealt with Purdue's Policy on Intellectual Property that can be found at the following URL.

http://www.purdue.edu/policies/pages/teach_res_outreach/viii.4.1.htm

The attached interpretation of policy on intellectual property was drafted in order to resolve questions that were raised when the revised B-10 memorandum was announced.

This draft of the interpretation of policy on intellectual property has been reviewed by both the Office of the Vice President for Research and the Provost's Office.

Comments about this draft should be forwarded to Peter E. Dunn, Associate Vice President for Research so that a final version of this document can be prepared for posting with the revised B-10 memorandum.

OVPR Procedures for the Distribution of Net Proceeds from University Intellectual Property

Section VIII of Purdue University Policy VIII.4.1 "Policy on Intellectual Property" describes University policy on the determination of Equities of Participating Parties in regard to distribution of income derived by the University and/or its designee, Purdue Research Foundation, directly from the commercialization of University Intellectual Property administered in accordance with this policy. Following is a summary of OVPR procedures to implement this policy.

1. Policy VIII.4.1 defines Net Proceeds derived from University Intellectual Property as "the gross receipts derived therefrom (including, but not limited to, rents, royalties, dividends, earnings, gains, and sales proceeds), less all costs, expenses and losses paid or incurred by the University or its designee, in connection therewith (including, but not limited to, all direct and indirect costs and expenses specific to the creation, preservation and legal protection of the University Intellectual Property, including attorney fees)."

2. As stated in Section VIII. 3. General Principle of Division, the default model will distribute Net Proceeds according to the following formula: a) two-thirds to the University, and b) one-third to University personnel who created the University Intellectual Property that gives rise to the Net Proceeds. Relative distribution of the one-third share to University personnel who created the University Intellectual Property will normally follow the percentages agreed to between those personnel when the University Intellectual Property was disclosed or the most recent version modified by a subsequent agreement between those personnel. Net Proceeds distributed to the University will normally be distributed 50% to the department/administrative unit from which the underlying University Intellectual Property originated and 50% to the Trask Fund, which supports end-stage development and increases the utility to the public of University Intellectual Property. If a recognized University center/institute plays a significant role in the development of University Intellectual Property and the dean or vice president having administrative responsibility for the center/institute so recommends in writing, the share of Net Proceeds normally distributed to the department/administrative unit shall be distributed one-third to the center/institute and two-thirds to the academic units having administrative responsibility for those staff who are participating in the distribution of the inventor's share of Net Proceeds.

3. If the Office of Technology Commercialization informs the OVPR of special circumstances that warrant variance from the default model for distribution, those special circumstances will be brought to the attention of the University personnel who disclosed the licensed technology/copyright by the Vice President for Research and an alternative model appropriate to the circumstances will be proposed by the Office of the Vice President for Research. If the disclosers concur with the proposed alternative model, it will be recommended to the President for approval as a variance from the General Principle of Division. In the event that the disclosers do not all agree with the alternative model for distribution, the special circumstances and alternative model will be presented to the Committee on Patents and Copyrights, who will advise the Vice

President for Research regarding the alternative model for the distribution of Net Proceeds. Special circumstances that may lead to alternative models for distribution may include, but are not limited to, distribution of Net Proceeds from licensing of University Intellectual Property (i) created as a work-for-hire or commissioned work by a University employee or student; (ii) for commercial development under special terms that explicitly require distribution under a modified formula, such as licensing to the Mann Institute; or (iii) through an agreement that provides Net Proceeds from a bundle of independent technologies created by groups of employees/students who have agreed to different distribution ratios for each technology in the bundle, under which circumstances a pooled distribution formula will normally be developed. In the event that special circumstances are presented to the Committee on Patents and Copyrights for their advice, the inventor/creators and other stakeholders/potential beneficiaries of Net Proceeds will be provided the opportunity to provide input to the Committee. The Vice President for Research will consider the Committee's recommendation, and the advice and analysis of other persons with relevant expertise, and make a recommendation to the President, who will make the final determination regarding proposed variances from the General Principle of Division.

Endorsed by:

For the Office of the Vice President for Research

Date

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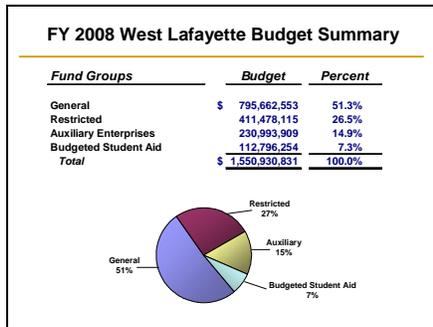

University Senate
Purdue University
West Lafayette Budget
 January 28, 2008

Slide 2

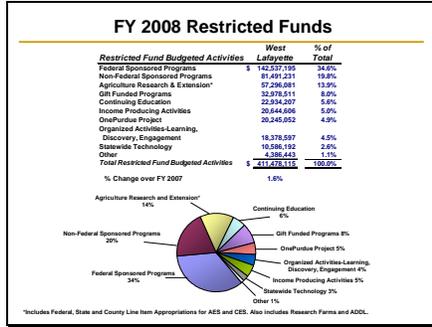
FY 2008 Total System Budget

	West Lafayette	Calumet	IPFW	North Central	Total
General	\$ 795,662,553	\$ 71,657,000	\$ 89,675,816	\$ 25,542,169	\$ 982,537,538
Restricted	411,478,115	6,951,795	10,143,029	3,242,280	431,815,219
Auxiliary Enterprises	230,993,909	5,639,929	12,056,218	1,202,580	249,892,636
Budgeted Student Aid	112,796,254	15,157,100	21,673,324	6,643,005	156,269,683
Total	\$ 1,550,930,831	\$ 99,405,824	\$ 133,548,387	\$ 36,620,034	\$ 1,820,515,076

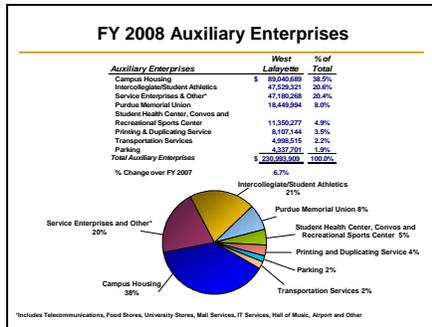
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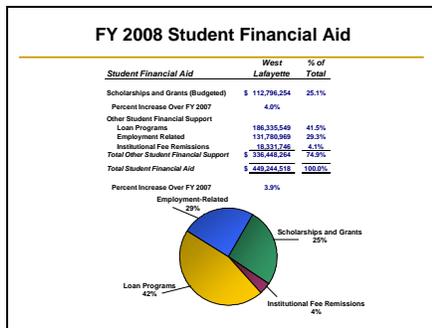
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FY 2007 and FY 2008 General Fund Budgets by Revenue Source			
Revenues	FY 2007 Budget	FY 2008 Budget	Percent Change
Student Fees	\$420,447,510	\$446,128,910	6.1%
Operating Appropriation	241,258,923	249,929,962	3.6%
Debt Service Appropriation	20,920,977	23,928,533	14.4%
F&A Recovery	39,900,000	46,000,000	15.3%
Interest Income	16,500,000	16,500,000	0.0%
Other Income	11,757,814	13,175,148	12.1%
Total Revenues	\$750,785,224	\$795,662,553	6.0%

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FY 2008 General Fund Budget Revenue Changes and Reallocations		
Revenue Changes		Amount
State Appropriations		\$11,678,595
Operating Appropriation	\$8,671,039	
Debt Service	3,007,556	
Student Fees		25,681,400
Enrollment Adjustment	3,200,000	
Resident Fees	6,498,000	
Nonresident Fees	11,820,000	
Strategic Plan Fee Increase (new students)	1,100,000	
R&R Student Fee (new students)	2,346,000	
Other Fee Assessments	717,400	
Other Income		7,517,334
F&A Recovery	6,100,000	
Admin. and Oper. Support and Other	1,417,334	
Revenue Increase		\$44,877,329
Internal Reallocations (3.5% of Adjusted Base)		15,813,248
Total New Revenue and Reallocations		\$60,690,577

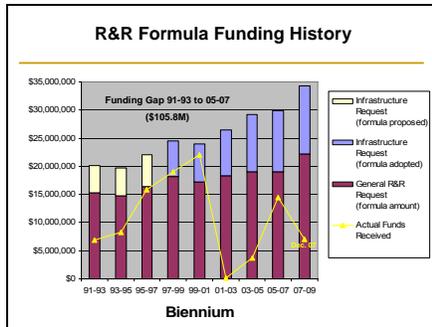
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FY 2008 General Fund Budget Expenditure Allocations		
Allocations		Amount
Mandatory Cost Increases	\$6,309,443	
Debt Service	3,007,556	
Total Cost to Continue Operations		\$9,316,999
Strategic Plan Initiatives		
Compensation Increases and Benefits	\$23,385,603	
Overarching Initiatives	11,648,201	
Goal 1 - Discovery	8,595,489	
Goal 2 - Learning	6,310,729	
Goal 3 - Engagement	1,433,556	
Total Strategic Plan Initiatives		\$51,373,578
Total Allocations		\$60,690,577

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FY 2008 Mandatory Cost Increases in the General Fund Budget	
<i>Allocations</i>	<i>Amount</i>
Fuels and Utilities	\$1,299,848
Plant Expansion	1,243,842
Repair and Rehabilitation	3,400,000
Property and Liability Insurance	269,447
Bus Service, Legal Fees, PAA Dues, Rental Properties	<u>96,306</u>
Total Mandatory Cost Increases	<u>\$6,309,443</u>

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Allocation of FY 2008 New Revenues and Internal Reallocations by Strategic Plan Initiatives		
<i>Allocations</i>	<i>Amount</i>	<i>%</i>
Compensation Increases and Benefits		
Merit Salary Increases and Adjustments	\$14,204,926	
Faculty Change in Academic Rank	662,789	
Benefits Related to Salary Increases	2,632,500	
Benefits Plan Changes (Medical, Retirement Social Security, Life Insurance and Other)	<u>5,885,388</u>	
	<u>\$23,385,603</u>	45.5%

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Allocation of FY 2008 New Revenues and Internal Reallocations by Strategic Plan Initiatives (cont.)

<i>Allocations</i>	<i>Amount</i>	<i>%</i>
Overarching Initiatives		
New Faculty Lines	\$4,000,000	
Programmatic Reallocations	2,816,327	
Maintain Supplies and Expense Purchasing Power (2%)	1,451,000	
Mechanical Engineering Building Debt Service	1,364,124	
OnePurdue Post Go-Live	1,000,000	
Diversity Initiatives	200,000	
Black Cultural Center	200,000	
Network Access Credentials and Control Office	168,000	
Campus Landscaping	150,000	
Residential Transition	120,000	
Director of Emergency Planning	104,500	
Internal Auditor	74,250	
	<u>\$11,648,201</u>	22.7%

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Allocation of FY 2008 New Revenues and Internal Reallocations by Strategic Plan Initiatives (cont.)

<i>Allocations</i>	<i>Amount</i>	<i>%</i>
Goal 1 - Discovery		
Programmatic Reallocations	\$5,423,775	
Support For Research Enterprise and Targeted Allocations	2,000,000	
Employment-Related Fee Remissions	410,397	
Library Serials Inflation and Information Access Database	250,000	
Institutional Fee Remissions	206,360	
Birk Nanotechnology Facility Support	200,000	
Information Technology Infrastructure	104,957	
	<u>\$8,595,489</u>	16.7%

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Allocation of FY 2008 New Revenues and Internal Reallocations by Strategic Plan Initiatives (cont.)

<i>Allocations</i>	<i>Amount</i>	<i>%</i>
Goal 2 - Learning		
Programmatic Reallocations	\$2,816,910	
Undergraduate Aid - Need	615,066	
MBA Program Support	550,000	
Institutional Fee Remissions	537,846	
Employment-Related Fee Remissions	410,397	
Undergraduate Aid - Merit/Cash Award	286,500	
Scholarships - RTS, Valedictorian, Purdue Opportunity, ROTC	250,583	
Library Serials Inflation and Information Access Database	250,000	
PharmD Enrollment Support	160,000	
International Student Program Support	120,000	
Supplemental Instruction / Retention Programming	115,000	
Information Technology Infrastructure	104,957	
Oral English Proficiency Program	49,000	
Purdue Student Government	38,920	
Audiology Doctorate Support	5,550	
	<u>\$6,310,729</u>	12.3%

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Allocation of FY 2008 New Revenues and Internal Reallocations by Strategic Plan Initiatives (cont.)

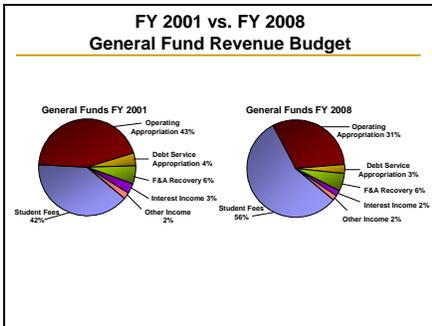
<i>Allocations</i>	<i>Amount</i>	<i>%</i>
Goal 3 - Engagement		
Programmatic Reallocations	\$986,556	
Marketing and Promotion	300,000	
Advancement Initiatives	147,000	
	<u>\$1,433,556</u>	2.8%
Total Strategic Plan Initiatives	<u>\$51,373,578</u>	100.0%

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General Fund Revenue Five-Year Change

<i>Funds Available</i>	<i>FY 2003</i>	<i>FY 2008</i>	<i>Percent Change</i>
Student Fees	\$ 286,766,509	\$ 446,128,910	55.6%
State Appropriations			
Operating	224,443,508	249,929,962	11.4%
Debt Service	24,389,597	23,928,533	-1.9%
F&A Recovery	27,700,000	46,000,000	66.1%
Interest Income	19,900,000	16,500,000	-17.1%
Other Income	14,350,082	13,175,148	-8.2%
Total Funds Available	<u>\$ 597,549,696</u>	<u>\$ 795,662,553</u>	33.2%
Consumer Price Index (est.)			14.3%
Higher Education Price Index (est.)			21.7%

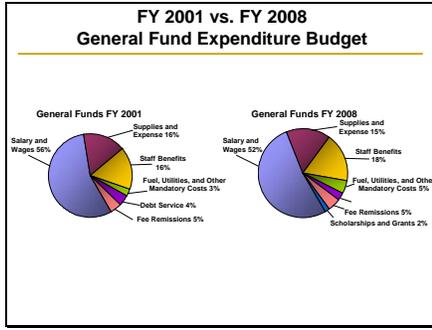
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General Fund Expenditures Five-Year Change			
<u>Expenditures</u>	<u>FY 2003</u>	<u>FY 2008</u>	<u>Percent Change</u>
Salary and Wages	\$ 309,499,186	\$ 412,167,428	33.2%
Supplies and Expense	107,811,189	120,595,259	11.9%
Unavoidables			
Staff Benefits	105,028,367	142,457,942	35.6%
Fuel, Utilities, and Other	18,985,400	33,100,319	74.3%
Repair and Rehabilitation	0	7,675,000	n/a
Debt Service	24,389,597	23,928,533	-1.9%
Fee Remissions	28,778,957	41,607,448	44.8%
Scholarships and Grants	3,059,000	14,070,624	360.0%
Total Expenditures	\$ 597,549,696	\$ 795,662,553	33.2%
Consumer Price Index (est.)			14.3%
Higher Education Price Index (est.)			21.7%

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**PURDUE
UNIVERSITY**

University Senate
Purdue University
West Lafayette Budget
 January 28, 2008

Memorial Resolution
for
Forrest W. Quackenbush
Professor Emeritus of Biochemistry
Head, Department of Biochemistry
Indiana State Chemist and Seed Commissioner
August 7, 1907-May 21, 2007

Forrest Ward Quackenbush, Ph.D., faculty member of Purdue University, died May 21, 2007, in West Lafayette, three months short of his 100th birthday. Dr. Quackenbush was born in Melrose, Wisconsin, on August 18, 1907. He attended the University of Wisconsin and Iowa State University, completed his Ph.D. at the University of Wisconsin, and did post-doctoral work in Heidelberg, Germany and Utrecht, Netherlands.

Dr. Quackenbush came to Purdue in 1943 as Head of the Department of Agricultural Chemistry, later called the Department of Biochemistry, and was appointed by Indiana's Governor as Indiana State Chemist and Seed Commissioner. During his tenure as Head the department established a strong graduate program and expanded the size of the faculty. Known as an exceptionally efficient administrator who demanded high quality work and encouraged independent thinking, he stepped down after 22 years at the helm of these demanding positions to devote full time to research.

Dr. Quackenbush was a devoted Lipid Biochemist, with specific interests in the role of lipids in atherosclerosis, the biochemistry of carotenoids, and the biological functions of polyunsaturated fatty acids. He and his graduate students published many studies that contributed to our current understanding of the relationship between dietary fats and the etiology of coronary heart disease. He was one of the first to recognize and advocate the health benefits of ω 3 and ω 6 fatty acids. He leaves a legacy of many of his students who have gone on to successful research careers in academia and pharmaceutical companies.

During his 22 years of service as Indiana State Chemist and Seed Commissioner Dr. Quackenbush rose to national leadership, particularly in the areas of regulatory oversight of animal feeds, fertilizers, seeds, pesticides, and the development of official analytical methodology. He had notable expertise in dealing with regulatory concerns over the use of fats and oils in both human and animal nutrition. He was a pioneer in fostering coordinated state and federal regulatory efforts especially in the area of medicated animal feeds.

Dr Quackenbush was a 50-year member of the American Chemical Society and was active in the Associations of American Feed, Fertilizer, Seed and Pesticide Control Officials. He was very active in the Association of Official Analytical Chemists, serving in several leadership roles including the presidency. He was recognized in the 1965 with the Harvey W. Wiley award, the most prestigious award given by the Association.

He was listed in Who's Who in American Men of Science and was a member of Rotary International for over 50 years. He was an avid gardener and enjoyed fishing, kayaking and developing computerized stock market analysis systems. He was gardening the day before he passed away.

He married June Evans on December 4, 1937, in Youngstown, Ohio. She preceded him in death in 2000. He is survived by a daughter, Carol Bean of Madison, WI, and a sister, Ruby Lokensgard of Bangor, WI. Also surviving are four grandchildren and five great-grandchildren. He was preceded in death by two brothers, two sisters, and a daughter.