

UNIVERSITY SENATE
Sixth Meeting, Monday, 22 March 2010, 2:30 p.m.
Room 302, Stewart Center

AGENDA

1. Call to order Professor Howard N. Zelaznik
2. Approval of Minutes of 15 February 2010
3. Acceptance of Agenda
4. Remarks by the President President France A. Córdova
5. [Remarks of the Chairperson](#) Professor Howard N. Zelaznik
6. [Résumé of Items Under Consideration](#)
by Various Standing Committees For Information
Professor Alyssa Panitch
7. Question Time
8. [University Senate Document 09-4](#)
Nominees for Vice Chairperson of the University Senate For Action
Professor Kathryn Orvis
9. New Business
10. [Memorial Resolutions](#)
11. Adjournment

UNIVERSITY SENATE

Sixth Meeting, Monday, 22 March 2010, 2:30 p.m.
Room 302, Stewart Center

Present: *Present: President France A. Córdova, Howard Zelaznik, (Chairperson of the Senate) presiding, Professors Janet M. Alsup, David C. Anderson, Zarjon Baha, Patricia E. Bauman, Alan M. Beck, Ernest R. Blatchley, J. Stuart Bolton, James Braun, Jeffrey L. Brewer, Becky A. Brown, Bernd W. Buldt, Christian E. Butzke, Joseph W .Camp Jr. (Secretary of Faculties and Parliamentarian), Natalie J. Carroll, Ralph L. Cherry, Patricia G. Coyle-Rogers, Alphonso V. Diaz, Paul B. Dixon, Shawn S. Donkin, Phillip S. Dunston, Nancy E. Edwards, Charlotte E. Erdmann, Michael J. Fosmire, Geraldine S. Friedman, Joan R. Fulton, Gabriele F. Giuliani, Ronald J. Glotzbach, James P. Greenan, John B. Grutzner, Sally A. Hastings, L. Tony Hawkins, Michael A. Hill, Peter M. Hirst, Kristine Holtvedt, Neal R. Houze, David B. Janes, Adam J. Kline, Ravi Krishnan, Robert Kubat, Eric P. Kvam, Morris Levy, Andrew U. Luescher, Kevin R Maurer, William D. McInerney, Robert E. McMains, James D. McGlothlin, Samuel P. Midkiff, Mark M. Moriarty, P. Jane Morris, Daniel K. Mroczek, Martin R. Okos, Kathryn S. Orvis, Alyssa Panitch, Zygmunt Pizlo, Phillip E. Pope, J. Paul Robinson, Thomas B. Robinson, Alysa C. Rollock, Carolyn Roper, John A. Sautter, Arthur P. Schwab, Richard Sévère, Jie Shen, Robert D. Skeel, Glenn Sparks, A. Charlene Sullivan, Thomas J. Templin, Volker K. Thomas, Lynda J. Thoman, Bert Useem, Samuel S. Wagstaff, Mara H. Wasburn, Herbert L. Weith, David J. Williams, G. Thomas Wilson, Randy Woodson and Yuehwern Yih.*

Absent: *Professors: Mark Bannatyne, Dana S. Beck, George M. Bodner, Kristina K. Bross, Lynn A. Bryan, Donald Buskirk, Steve H. Collicott, Wei K. Cui, Martin V. Curd, Larry P. DeBoer, Raymond A. DeCarlo, Edward J. Delp, John P. Denton, Brian G. Dillman, Mark A. Green, Chong Gu, Steven G. Hallett, Jeffrey D. Holland, Richard D. Johnson-Sheehan, Joseph F. Kmec, Christine M. Ladisch, Mihails Levins, W. Gerry McCartney, Rabindra N. Mukerjea, Mary B. Nakhleh, James G. Ogg, Suzanne L. Parker, Robert D. Plante, Robert E. Pruitt, Teri Reed-Rhoads, Melissa J. Remis, Sivakumar S. Santhanakrishnan, Marisol S. Sepulveda, Mark J. T. Smith, Elizabeth J. Taparowsky, Marion Trout, Lefteri Tsoukalas, Whitney Walton, and William J. Zinsmeister.*

Guests: *Jae-Won Kim, Aaron Leedy, Mikel Livingston, Pablo Malvenda, Valerie O'Brien, Mamon Powers, Jessica Rombach, Chris Sigurdson, Marissa Sura, and Eric Weddle.*

1. The meeting was called to order at 2:35 p.m. by Chairperson Howard N. Zelaznik.
2. The minutes of the meeting of 15 February 2010 were approved as distributed.
3. The agenda was approved as distributed.
4. President France A. Córdova presented remarks to the Senate.
5. Professor Zelaznik presented the report of the chairperson (see Appendix A).
6. Professor Alyssa Panitch presented, for information, the Résumé of Items under Consideration (ROI) by Various Standing Committees (see Appendix B).

7. At “Question Time” numerous questions came from the floor concerning the proposed changes to salary and retirement benefits. The questions and answers were essentially similar to the questions and answers from the February Senate meeting. In summary, the Board of Trustees (BOT) and administration have made it clear that changes to the total compensation of faculty and some staff will occur. The BOT has mandated that university contribution to employees’ TIAA-CREF retirement funds will be reduced from 14.6% to 10%. According to President Córdoba the BOT believe that the current 14.6% contribution is not sustainable in the long run, hence the need to lower the contribution which lowering will also bring Purdue in line with its peer institutions. In the short term, this reduction in retirement contributions will have a marginal cost to the university, but is estimated to save \$6 million over a 10-year span. The savings will primarily arise from the lower retirement contribution for newly hired faculty and staff members. While mandating a reduction in retirement benefits, the BOT would like to see a compensatory increase in the salaries of Purdue faculty. The BOT envisions the increase in salaries as a means of bringing salaries more in line with Purdue’s peer institutions and as a tool for recruitment and retention of new faculty members. The administration is considering different options to deal with the change in benefits. One option that has been considered is to take the 4.6% savings from the retirement contribution and put 3% into a merit salary pool while returning 1.6% to the general fund to help offset the increasing budget shortfall. A second option is to take the 4.6% from the retirement contribution and put it directly into the salary of all TIAA-CREF participants on a dollar-for-dollar basis. This would have the effect of keeping total compensation “whole” for the faculty and staff members who are affected. This latter rebalancing concept appears to be the preferred option that the administration will present to the BOT at their April meeting. During the question and answer period, President Córdoba acknowledged the concerns of the faculty and staff members who believe the reduction in retirement benefits will have a negative impact on recruitment and retention. She offered to speak individually with concerned staff and faculty and openly presented her email address to anyone who wishes to contact her directly (fcordova@purdue.edu). Chairperson Zelaznik stated that the faculty and the administration might not be on the same page, but the ongoing discussions and exchanges demonstrate a healthy attempt at collaboration and cooperation between the two groups.

Professor John Grutzner asked about the changes in the Purdue University Search Engine that have been proposed by VP Gerry McCartney. Representing VP McCartney, Director of Online Experience and Emerging Technologies Martin Sickafosse presented remarks and answers that addressed Professor Grutzner’s questions (see Appendix C).

Several Senators expressed concern about a recently proposed administrative policy that would increase oversight of outside activities of Purdue employees. The policy as it was written would negatively impact normal professional activities of faculty and staff such as serving as officers of professional organizations. After receiving numerous comments in opposition to the policy, it was removed from the web site and will go back to committee for reconsideration with additional faculty input to improve it.

8. Professor Kathryn Orvis presented, for action, Senate Document 09-4, *Nominees for Vice Chairperson of the Senate*. She called for additional nominations from the floor, but none were forthcoming. Her motion to approve the document was seconded and the two candidates for Vice Chairperson were invited to the podium to make brief remarks. Professor David Janes spoke first followed by Professor Morris Levy. Following these remarks, the vote was taken by secret ballot. The votes were tallied and Professor Levy was declared the winner. He will serve as Vice Chairperson of the Senate during the

2010 – 2011 academic year and as chair of the Senate during the 2011 – 2012 academic year.

9. Under New Business, Professor Levy presented, for discussion, Senate Document 09-5, *Survey of Employee Opinion on Proposal to Rebalance Salary and TIAA-CREF Retirement Benefit*. The document was in the form of a resolution. Prior to discussing the document, a motion was made and seconded to suspend the rules of the Senate to allow a vote on the document at the current Senate meeting. This motion passed by unanimous voice vote. Professor Levy then made a motion to approve the document which was seconded. Professor Levy presented PowerPoint slides that illustrated several examples of the impact of the proposed rebalancing (see Appendix D). A brief discussion of the document occurred and the vote was taken by a show of hands. The motion to approve the document passed 39 – 10. Chairperson Zelaznik and Secretary of Faculties Camp will work with the appropriate administrative offices to ensure timely creation and distribution of the survey to all Purdue campuses.

Also under New Business, Peter Kim, Chair of the Purdue Student Government Student Affairs Committee, presented a revised version of the university Honor Code (see Appendix E). Mr. Kim stated that the code was modified to make it more concise and easier to understand. The University Senate will consider a resolution to endorse the revised Honor Code at its April 2010 meeting.

10. Three memorial resolutions had been received for... Out of respect for their departed colleagues, the Senate members stood for a moment of silence.
11. Having no additional business, the Senate adjourned at 5:15 p.m.

REPORT TO THE UNIVERSITY SENATE - PROFESSOR HOWARD N. ZELAZNIK

Hi to all. This has been a very interesting month since our last meeting. The EVP & Treasurer's office has set up a series of open meetings to help explain the thinking of upper administration, as well as field questions and take suggestions. I believe that there are about 14 left. Two of these are on a regional campus. I will be going to IPFW on the 29th in fact to observe and take in the reaction of IPFW.

The trustees have not met since I last reported in February. I have had conversations with two trustees concerning faculty concerns and how we can work to understand what needs to be done to ensure that Purdue grows as a high quality first-rate teaching and research institution. More on that later.

Later in the meeting under new business, Professor Levy, Chair of the URPC will provide a concise description of the rebalancing proposal, under consideration by upper administration. Because this proposal got off to a rocky start on Nov. 20th, Morry and colleagues have been meeting with VP Diaz, VP Almond and managing Director Sandel in order to get the facts squared away. We are confident that we have the actual facts. Morry will send all Senators the URPC's power point slides and we trust you will forward to your faculty colleagues, with any message you deem appropriate.

Two Fridays ago many of you are aware of the draft documents concerning conflict of commitment and conflict of interest that were posted for comment. I heard from many of you virtually immediately following posting. Prior to leaving on Friday to visit our son in Baltimore (I did not fill out a form 32A) I did send a brief email to VP Rollock expressing concern. Over the weekend it became clear that we needed to act immediately as the loss of trust by faculty in the administration was palpable. I am happy to report that both Provosts as well as President Cordova understood the issues and acted swiftly. Let me assure you that FAC will not be left out of any and all future discussion, and we trust that documents that affect directly faculty job descriptions will not be approved without Senate involvement. The conflict of commitment is a new policy needed due to the results of an NSF audit. During question time I trust that VP Buckius can explain in all necessary detail the new requirement.

Finally, give me a few minutes to try to provide some perspective on where we are as a Senate relative to upper administration. However, first, let me make it clear that I have no reservations whatsoever in representing the majority of opinion of the Senate and faculty. So where are we?

Last year Ray DeCarlo, last year's Chair made an heroic effort to begin the process of budget transparency and as importantly to help the Senate find that special place where we can be cooperative and adversarial at the same time. This is a hard spot to find, but crucial to live in. It is in this chaotic region that transitions can be initiated with profound implications for Purdue.

In my opinion we are in such a chaotic region right now. The faculty and upper administration, clearly, are not on the same page. This does not bother me at all. We have a lot of new energy on campus, lots of new ideas have been promoted. More importantly Ray's goals and visions are being achieved. We have a much more cooperative and open upper administration. They want to partner with us. We collectively have not yet figured out how best to do this, but I am convinced that we are moving to a new region of coordination and cooperation with upper

administration. And, yes that means that we will have public and open disagreements. We are academics, we should embrace these disagreements. What we must do to make this work is to keep our disagreements on the academic level? I have seen nothing sinister in our upper administration, there are no conspiracies ... this is a new landscape for all of us. I urge my faculty colleagues as well as upper administration to keep true to the academic ideals we learned too well in graduate school.

Thank you .. as always it is a pleasure and delight to represent the faculty during this year. I hope to keep your trust for the duration of my tenure.

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

STEERING COMMITTEE

Alyssa Panitch, Chairperson
apanitch@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

Howard N. Zelaznik, Chairperson
hzelaz@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

Kathryn S. Orvis, Chairperson
orvis@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

John B. Grutzner, Chairperson
grutzner@purdue.edu

1. Remedial 1-credit course for students on probation
2. Core Curriculum
3. University wide policy on starting date for new and changed Plans of Study
4. Internationalization initiative
5. Transfer credit

FACULTY AFFAIRS COMMITTEE

David J. Williams, Chairperson
djw@purdue.edu

1. Benefits proposal
2. Review of faculty surveys at Purdue
3. Annual budget for Senate activities
4. Review of Executive Memorandum C-19 regarding faculty grievances
5. Review of Research Faculty promotion guidelines

STUDENT AFFAIRS COMMITTEE

Thomas J. Templin, Chairperson
ttemplin@purdue.edu

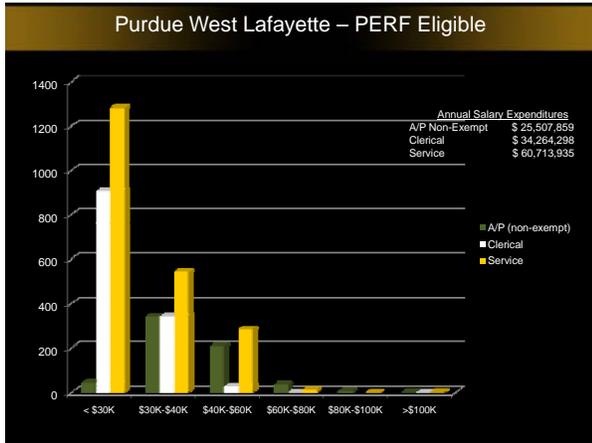
1. Review of the Student Bill of Rights
2. Follow-up concerning the Student Conduct Code
3. Follow-up with Student Services Office concerning disciplinary process

UNIVERSITY RESOURCES POLICY COMMITTEE

Morris Levy, Chairperson
levy0@purdue.edu

1. Review fiscal policies and aid in generating budget transparency and economy
2. Review of campus energy sufficiency, safety, and other Physical Facilities operations
3. Enhancing graduate education and research opportunities
4. Review of faculty committees

Chair of the Senate, Howard N. Zelaznik, hzelaz@purdue.edu
Vice Chair of the Senate, Joan Fulton, fultonj@purdue.edu
Secretary of the Senate, Joseph W. Camp, Jr., icamp@purdue.edu
University Senate Minutes; <http://www.purdue.edu/usenate>



TIAA-CREF Contribution History

	EMPLOYER		EMPLOYEE		
	Rate up to SS Base	Rate Over SS Base	Rate up to SS Base	Rate Over SS Base	SS Wage Base
1937-1950	8%	10%	3%	5%	\$ 3,000
1951-1954	8%	10%	3%	5%	\$ 3,600
1955-1958	8%	10%	3%	5%	\$ 4,200
1959-1965	11%	15%			\$ 4,800
1966-1967	11%	15%			\$ 6,600
1968-1971	11%	15%			\$ 7,800
1972 and >	11%	15%			\$9,000*

* Capped at \$9,000, currently \$106,800

Rebalancing Example*

	CURRENT	PROPOSED	DIFFERENCE
Salary	\$ 60,000	\$ 62,400	\$ 2,400
Retirement contribution	\$ 8,640	\$ 6,240	(\$ 2,400)
Total compensation	\$ 68,640	\$ 68,640	\$ 0
Salary	\$ 100,000	\$ 104,218	\$ 4,218
Retirement contribution	\$ 14,640	\$ 10,422	(\$ 4,218)
Total compensation	\$ 114,640	\$ 114,640	\$ 0
Salary	\$ 150,000	\$ 156,491	\$ 6,491
Retirement contribution	\$ 22,140	\$ 15,649	(\$ 6,491)
Total compensation	\$ 172,140	\$ 172,140	\$ 0

*Before taxes



Purdue System Management Challenges

OPERATING BUDGET		ASSETS	
General Funds	\$ 1.080 B	Capital Assets	\$ 1.607 B
Restricted Funds	\$.463 B	Endowment	\$ 1.641 B
Auxiliary Enterprises	\$.279 B	PRF Assets	\$.811 B
Student Aid	\$.197 B	Other Assets	\$.791 B
TOTAL	\$ 2.019 B	TOTAL	\$ 4.850 B

TOTAL Faculty, Staff, and Graduate Staff ≈ 19,000

Data Source:
FY 2009-2010 System-Wide Operating Budget; FY 2008-2009 Financial Report, Data Digest

1. What is the schedule for the transition between GSA and GCS?

We are currently migrating our sites to use GCS and will have this completed by the end of the current fiscal year.

2. What are the properties of GCS that will give the users improved performance? Has this been bench-marked?

Both the GSA and GCS rely on the same search technology. Unfortunately, the opt-in nature and the fact that certain parts of the GSA were not being utilized made for poor results both in relevance and the time to find something of relevance. The GCS will allow us to create on custom catalog of the university's sites, which will be shared with all groups wanting to point the search function on their sites to this catalog. We will also have the ability to fine-tune the results, so we can control which keywords rise to the top of the search results.

We are using the GCS that Purdue Engineering uses to benchmark results against our GSA and the times have been significantly faster and results much more relevant.

As a point of reference, searching on your name in the current set up through the appliance, results are found in 1.29 seconds. Utilizing the custom search through our Engineering sites, results are found within 0.36 seconds and searching on Google's search engine results (1,500 entries) are found within 0.17 seconds. By fine-tuning the custom search within our university we can obtain faster speeds, with more refined (and selective) results.

This seems a very labor intensive process, is there a more cost effective and efficient process?

With the retiring of the GSA, the migration is a logical step to create one consolidated search source for the university. The migration will be handled by my staff, with input from various IT groups throughout the university, and then recommendations on how to utilize the GCS on each college, school or department sites will be shared.

Making the websites work more efficiently is our daily goal and this project will allow us to make the search function work more efficiently.

The main time spent will be with members of my staff creating a consolidated search catalog for the university. We are estimating that this will take approximately two of my staff roughly 40 hours to create and test, before we launch the site. We will then be working with the IT groups throughout the university on how to implement the search, make sure all instances of the appliance are not being used and have recommendations on how to fine tune the custom search by the end of this fiscal year.

Current Proposal to Re-balance Compensation: Clarifications

Prof. Morris Levy
Chair, University Resources Policy Committee
University Senate, March 22, 2010

Term Usage

Compensation: Salary + TIAA-CREF Retirement Benefit

Current Retirement Benefit:
11% first \$9,000 salary + 15% thereafter

FICA Deductions:
6.2% Social Security on salary up to \$106,800 +
1.45% Medicare on total salary

Re-balancing procedure:
Current compensation redistributed
dollar-for-dollar as:

New salary = 10/11 Current Compensation
New Retirement Benefit = 1/11 Current Compensation

Ex. Old Compensation = \$ 100,000 + \$ 14,640 = \$ 114,640
New Compensation = \$ 104,218 + \$ 10,422 = \$ 114,640

Financial Outcomes of Re-balancing

Base Salary	\$ 60,000	\$ 100,000	\$ 150,000
Extra FICA tax – Purdue (cost)	\$ 184	\$ 323	\$ 94
Extra FICA tax- Employee (cost)	\$ 184	\$ 323	\$ 94
Salary Increase	\$ 2,400	\$ 4,218	\$ 6,491
Retirement Reduction	(\$ 2,400)	(\$ 4,218)	(\$ 6,491)
Additional Tax Burden (est.)	20%?	24%?	30%?
Extra salary re-deferred to TIAA (est.)	1% lower interest	1% lower interest	1% lower interest

Implications of Proposed Re-balancing

Budget reducer? **No, marginally more costly.**

More competitive for new hires? **Salary increase reduces retirement benefit; extra tax burden plus lower investment yield if re-deferred to TIAA = reduced net compensation.** (Attractive to a subset?)

Provides a choice? **Yes, but limited options.**
Employ for new hires only? Reconsider other alternatives after state funding and internal cost savings become clearer?

So how do affected faculty & staff feel about the proposal, now that the financial implications are clearer?

PURDUE UNIVERSITY

Purdue University Modified Code of Honor

Purdue Student Senate
Student Affairs Committee
2009 – 2010



PURDUE UNIVERSITY

The Problem

- During the month of February in 2009, 10 ECE 270 students had cheated on an examination.
- A 1999 study conducted by Donald McCabe (PhD) of Rutgers University found that on average 75% of students admitted to some form of cheating.
- Current standards lack effectiveness at Purdue.



PURDUE UNIVERSITY

Addressing Academic Dishonesty

- Academic dishonesty can be reduced by:
 - Instilling a sense of value and dignity in students' actions.
 - Holding students accountable for each other rather than “dodging” the faculty and administration.
 - Motivate pride and the impression of an elite institution through higher expectations rather than simply making regulations more strict.



PURDUE
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Modified Code of Honor

- Initially proposed by Donald McCabe (PhD) of Rutgers University and Linda Trevino (PhD) Penn State University.
- Incorporates:
 - Honor Code (Statement)
 - Proctored Exams
 - Peer Enforcement
 - Joint effort between administration/faculty and students on governance over regulations and judiciary actions
- This system has proved to be effective for large institutions



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Current Code of Honor

- The purpose of the Purdue University academic community is to search for truth and to endeavor to communicate with each other. Self-discipline and a sense of social obligation within each individual are necessary for the fulfillment of these goals. It is the responsibility of all Purdue students to live by this code, not out of fear of the consequences of its violation, but out of personal self-respect. As human beings we are obliged to conduct ourselves with high integrity. As members of the civil community we have to conduct ourselves as responsible citizens in accordance with the rules and regulations governing all residents of the state of Indiana and of the local community. As members of the Purdue University community, we have the responsibility to observe all University regulations. To foster a climate of trust and high standards of academic achievement, Purdue University is committed to cultivating academic integrity and expects students to exhibit the highest standards of honor in their scholastic endeavors. Academic integrity is essential to the success of Purdue University's mission. As members of the academic community, our foremost interest is toward achieving noble educational goals and our foremost responsibility is to ensure that academic honesty prevails.



PURDUE
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Revised Code of Honor

- The purpose of the Purdue University academic community is to discover and disseminate truth. In order to achieve these goals, the university commits itself towards maintaining a culture of academic integrity and honesty. For this to be possible, self-discipline and a strong desire to benefit others must be present within each individual. Therefore, we students must follow the Regulations Governing Student Conduct of Purdue University out of a sense of mutual respect, rather than out of fear of the consequences of its violation.



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Conduct Education

- The second issue preventing an effective modified honor code system.
- Students on campus all have different views of what is considered cheating and some do not realize that they are doing so.
- Some students do not even know about the existence of the current University Regulations on Student Conduct
- Making the Honor Code well-known with periodic reaffirmations will ensure that all students are on the same page in regards to academic regulations.
 - Boiler Gold Rush
 - STAR Program Presentation
 - Implementation on all syllabi



PURDUE UNIVERSITY

Conclusion

- It is evident that a modified honor code system helps major universities to help prevent, reduce, and do away with academic dishonesty.
- With the help and support of the University Leaders, the students of Purdue University, both undergraduate and graduate alike, will better the culture of academic integrity.



PURDUE UNIVERSITY

Research on Modified Honor Code

McCabe & Pavela (2000)	Private Campuses With an Honor Code	Large Public Universities With Modified Codes	Campuses With No Code
Test Cheating	23%	33%	45%
Cheating on written work	45%	50%	56%
Any serious cheating	53%	58%	68%



CALENDAR OF STATUS OF LEGISLATION

SENATE DOCUMENT	TITLE	ORIGIN	SENATE
*09-1	Reapportionment of the Senate	Professor Alyssa Panitch	Approved 11/16/09
*09-2	Formation of the Budget Transparency and Evaluation Committee	Professor Morris Levy	Approved 2/15/10
*09-3	Revised Membership in the committee for Student Excellence	Professor John Grutzner	Approved 2/15/10
*09-4	Nominees for Vice Chairperson of the University Senate	Professor Kathryn Orvis	Approved 3/22/10

*Approved

SENATE REPORTS	TITLE	ORIGIN
09-1	Report to the Senate Concerning the Creation of a College of Health & Human Sciences	Professor John Grutzner

TO: The University Senate
FROM: University Senate Nominating Committee
SUBJECT: Nominees for Vice Chairperson of the University Senate
REFERENCES: Bylaws, Section 3.20b, c
DISPOSITION: Election by the University Senate

The Nominating Committee proposes the following individual to serve as vice chairperson of the University Senate for the academic year 2010-2011. The nominees for chairperson are:

Morris Levy	Biological Sciences
David Janes	Electrical and Computer Engineering

Approving (via email):

Michael Fosmire
Kathryn Orvis
Suzanne Parker
Melissa Remis
Samuel Wagstaff
Bill McInerney
Phillip Dunston

Morris Levy

I arrived at Purdue in 1973 as an Assistant Professor of Biological Sciences, with research interests in population ecology and evolutionary biology. Seventeen years later I began the third and most rewarding phase of my research career when I collaboratively developed a new genetic understanding of the most important fungal disease of cultivated rice as well as improved ways of managing the fungal pathogen worldwide. I've taught courses ranging from Introductory Biology and Laboratory to an experimental interdisciplinary course, Introduction to Bioinformatics, to a professional development seminar course for all incoming graduate students in my department. I have served as Associate Head of my Department and have been Convener of our Graduate Program since 2005. My dedication to enhancing graduate education at Purdue includes service at the Graduate Council, leading recruitment efforts for underrepresented student groups, and organizing the award-winning Purdue SACNAS Student Chapter. I have served in the University Senate since 2004, and as the Chair of the University Resources Policy Committee and as an Advisory Committee member since 2005. My experiences via the Senate have been both enlightening and gratifying. They sustain my view that faculty partnership in Purdue governance greatly benefits our institution.

David Janes

Research and Teaching Experience:

Prof. Janes received his PhD from UIUC in 1989. During his 25 years in device research (20 at Purdue), Janes has published over 95 refereed journal papers. His publications include articles in *Science*, *Nature Nanotechnology* and a cover article in *Nano Letters*. He has published with over 20 different faculty/professional collaborators, in disciplines including Chemistry, Physics, Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Materials Engineering, and Electrical and Computer Engineering. His research interests include nanowire transistors, compound semiconductor contact and device structures, molecular electronics and chem./bio sensing using molecular/semiconductor interfaces. Prof. Janes has taught a number of

courses at both the undergraduate and graduate levels. He has co-developed an undergraduate laboratory course (Microwave Measurements) and a graduate course on Low Dimensional Semiconductor Devices.

Involvement in Centers and Outreach Activities

Technical Director of the Institute for Nanoelectronics and Computing (INAC), a NASA-sponsored multi-university research, education and outreach center led by Purdue (2002-2007). Janes was part of the 4-person leadership team that organized the INAC proposal. As Technical Director, Janes had primary responsibility for defining and monitoring the technical portfolio of the program, as well as for setting budget priorities and allocations. He was instrumental in defining the technical thrusts and strategic goals for the center and led annual strategic planning exercises. Janes served as the technical point of contact for the center in interactions with NASA and corporate labs and served in leadership positions in several NASA-related strategic exercises. Janes also initiated and served as the primary mentor for a graduate fellowship program, including female students and students from under-represented groups. He also co-organized and led the recruiting effort for the Summer Undergraduate Research Intern (SURI) program. As an outgrowth of the INAC efforts, Janes has been involved with programs at the University of Puerto Rico, including serving on the advisory board for the Puerto Rico Space Grant consortium and as liaison between the Center for Nanoscale Materials at UPR and Purdue.

Leadership in Other Center Proposals. Janes has also been on the leadership team for 3 NSF center proposals, and director of center-level proposals to DOE and Army Research Labs. He is a

co-organizer of efforts aimed at organizing a competitive NSF MRSEC proposal for Fall 2010.

Research Program Coordinator of the Birck Nanotechnology Center, a Discovery Park Center. During the design phase of the BNC, Janes served as the Research Program Coordinator of the facility (officially from Jan 2002-May 2003). In this role, he was the lead user representative for all of the laboratories outside the cleanroom. During this design phase, he met with faculty groups from many disciplines across campus, and was instrumental in translating the various "wish lists" into technical requirements and developing strategies for shared-access facilities while maintaining world-class laboratory capabilities. He was instrumental in major design decisions that led to a facility that is unique in the world, and that is configured for many years of excellence. He represented the BNC at national and international events, including conferences on research laboratory design. His presentations focused on enabling top quality research with advanced facilities.

Memorial Resolution

David A. Santogrossi

**Associate Dean of the College of Liberal Arts
Associate Professor of Psychological Sciences
1947 – 2010**

David Anthony Santogrossi passed away on Thursday, January 28, 2010, from complications due to cancer (multiple myeloma). David was born on January 17, 1947, in Springfield, Illinois. After receiving his undergraduate degree in Psychology (with minors in Physiology and Mathematics) from the University of Illinois at Urbana-Champaign in 1969, David went on for graduate training in Clinical Psychology at the State University of New York at Stony Brook. He received his Ph.D. from Stony Brook in 1973 and began his career at Purdue University as an Assistant Professor in the Department of Psychological Sciences that same year. Within the Department, David was known as an exceptionally skilled teacher and mentor. He served as the Department's Director of Undergraduate Studies for a number of years and became Associate Dean of the College of Liberal Arts (CLA) in 1997, a role in which he served until his passing.

David was a tireless advocate for students. His legacy includes multiple graduate students for whom he served as major professor and legions of undergraduate students for whom he provided training and/or mentoring. His devotion to education was recognized by his students and his peers – David was the recipient of the Purdue Outstanding Teacher Award in 1988 and he became a Charter Member of the Purdue Teaching Academy in 1997. David felt strongly about the benefits of Honors education as well as international experiences for undergraduates. He led a number of highly successful Study Abroad programs for Purdue (including programs in England and in Italy). He was widely admired for his administrative skills, his commitment to the highest academic standards, and for his ability to bring humor to humorless situations.

Beyond Purdue, David loved music (he was an accomplished percussionist), movies (his encyclopedic film knowledge pre-dated IMDB), theatre (both as viewer and participant -- he worked on multiple production at the Lafayette Civic Theatre) and, most of all, people.

And people loved him. Simply put, David was beloved by both the Purdue and the Greater Lafayette community. Upon hearing of his death, a number of CLA faculty and staff members spontaneously generated an immediate outpouring of thoughts and memories about David, including the following:

He was one of the most truly decent and supportive people I have known in my long career at Purdue, a very interesting conversationalist with many interests and a tremendous amount of patience and compassion for others. I only hope he had a sense of how much he was appreciated by the many people whose lives he touched.

David was a wonderful mentor and friend. He had a passion for Purdue and helping students excel. I will miss his generosity, humor and kindness. Working for him was truly a blessing.

I will remember most David's zest for the good things in life — music, theatre, dance, Italy, Gelato, and smart women. He was generous in sharing his passion for these with everyone, and in doing so showed us the value of leading a rich life.

David was one of the finest men I have ever encountered. Always upbeat, always supportive, always decent, he had unshakable standards and passion. He will live in our minds as we remember the times we shared with him.

David was talented in so many ways and he influenced so very many students and faculty. We were blessed to have him among us at the university and in the community. He will be remembered fondly as someone who really made a difference.

We miss him tremendously and all that he brought to our lives.

Christopher R. Agnew
Professor and Head of Psychological Sciences

Memorial Resolution
Leonard D. Berkovitz
1924 - 2009

Professor Emeritus Leonard D. Berkovitz passed away suddenly on October 13, 2009 at age 85. He is survived by his wife Anna, sons Dan and Kenneth, and five grandchildren.

Len Berkovitz was born January 24, 1924 and grew up in Chicago. He began his college studies in 1941 as a chemistry major at the University of Chicago. When World War II started, he joined the military. After completing meteorology training programs, he served as a weather officer in the U.S. Army Air Corps. Len received from the University of Chicago a B.S. in meteorology in 1946 and a Ph.D. in Mathematics in 1951. His Ph.D. thesis, written under the supervision of Antoni Zygmund, was in the area of double trigonometric series. He was an Atomic Energy Commission Postdoctoral Fellow at Stanford during 1951-52. From 1952 to 1954, he was a Research Fellow at CalTech, where he conducted research on asymptotic expansions.

In 1954, Len Berkovitz joined the Mathematics Division of the RAND Corporation in Santa Monica, California. RAND is one of the oldest and most successful among organizations called “think tanks.” During the 1950s, RAND actively encouraged work in such new areas of applied mathematics as linear programming, game theory, and nonlinear optimization, which were not yet established in the U.S. as research areas within academe. G. Dantzig, R. Isaacs and R. Bellman were among the senior staff at RAND, and other prominent mathematicians were RAND consultants. The U.S.-USSR “space race” began in the late 1950s, and the book *Mathematical Theory of Optimal Processes* by L.S. Pontryagin et al. appeared. It had an influential role in the rapid growth of the field of nonlinear control theory during the 1960s. It was in this exciting atmosphere that Len’s long-term research interests in control and differential games began. During his time at RAND, Len also worked on a variety of applied problems of interest to the U.S. Air Force. He helped introduce the novel idea (now common practice) of using simulation methods for determining the outcome of tactical engagements.

By the early 1960s, RAND had deemphasized basic research in applied mathematics. Many of the mathematicians at RAND left for university positions. Len Berkovitz joined the faculty at Purdue University as Professor of Mathematics in 1962 and remained at Purdue until his retirement in 2003.

Len made many significant contributions to control theory and the calculus of variations during the 1960s and 1970s, including his influential book *Optimal Control Theory* published in 1974. One facet of his work concerned methods for deriving necessary conditions for optimality. Pontryagin-type control problems are closely related to Bolza-type problems in the calculus of variations, in which additional inequality constraints are imposed. Len gave definitive answers to questions concerning the relationship between the Pontryagin maximum principle and classical necessary conditions for Bolza-type problems. Len was also very active in the development of a theory for the existence of optimal controls. Many of his definitive results on existence theorems are included in his 1974 book cited above.

In a different research direction, Len and Harry Pollard analyzed some variational problems that arise from min-max filter applications. Their work stimulated considerable interest among mathematicians, statisticians, and engineers who were concerned with related non-classical calculus of variations problems.

The study of two-player, zero sum differential games began in 1951 with R. Isaacs' work on pursuit evasion games. Isaacs' method for finding the differential game value and optimal play was based on the method of characteristics for what is now called the Isaacs partial differential equation (PDE). There remained the difficult task of finding a satisfactory mathematical theory of differential games. Len Berkovitz was among those who made significant contributions to this endeavor over the thirty-year period 1957-87. It is worth noting that interesting new applications of differential games continue to arise. They have a key role in nonlinear H-infinity control theory. Recently, methods based on differential games gave new importance to sampling techniques for estimating probabilities of rare events.

A first step toward a mathematical theory of differential games was to find conditions under which Isaacs' method of characteristics could be rigorously shown to provide optimal feedback controls for the two game players. Len Berkovitz's work during 1957-71 gave such conditions, which involved piecewise smoothness of value functions and other restrictions.

A second stage of differential game theory concerned rigorous definitions for upper and lower game value functions under much less restrictive assumptions. Len's 1985 and 1986 papers in *SIAM Journal on Control and Optimization* are definitive work in this direction. These papers are related to earlier works by Friedman and Krasovskii-Subbotin, which define differential game value functions using time discretization methods.

The Crandall-Lions theory of viscosity solution in the 1980s provided an important simplification in the theory of differential games. Theorems about uniqueness of viscosity solutions imply that various earlier definitions of upper and lower game value are equivalent. If the Isaacs minimax condition holds, then upper and lower values are equal and are called the game value.

Independently of viscosity solution theory, Subbotin introduced another approach based on Dini derivatives of value functions. Len Berkovitz's 1988 *Applied Math and Optimization* paper characterized the Subbotin game value as a viscosity solution to the Isaacs PDE and gave simpler proofs of Subbotin's results.

During his long career at Purdue, Len Berkovitz played a guiding role in developing the strength of the Mathematics Department in both pure and applied mathematics. He was department head from 1975 to 1980 and acting head for the year 1989-90. Colleagues at Purdue recall that he was excellent in that role. As department head, Len was resolute in advocating the Mathematics Department's interests in negotiations with the university administration. One of his favorite stories was about the time he informed the dean that the department wanted to make simultaneous offers to four outstanding candidates. He was told by the dean that if the offers were all accepted, there would be no money left for mathematics faculty raises. Len responded that in that unlikely event, he would gladly step down in a blaze of glory. (Unfortunately, they

weren't all accepted.) As a colleague and department head, his interactions with administrators, colleagues, staff, and students were marked by his always reasonable and civil manner. His ability to keep the conversation focused, calm, and rational, even when tempers were frayed and opinions divergent, served both him and the department well. He could defuse a tense situation with a well-placed amusing anecdote. He was probably unique among department heads in not making enemies. It is hard to remember him ever being without a disarming smile.

During his forty-one year career at Purdue, Len Berkovitz taught mathematics at all levels, from large (400+) lectures in freshman calculus to graduate seminars. He took his teaching seriously and expected his students to take their studies seriously. He was approachable and respected for his fairness. As a Ph.D. advisor, he was dedicated to the professional growth and well being of his students. He preferred to lead students toward a research direction instead of just giving them specific research problems. Len encouraged students to learn things beyond his own expertise. He also encouraged his students to work with other scholars in order to broaden their knowledge as well as to establish relations with other mathematicians in the early stages of their careers. Len provided lifelong friendship and encouragement to former Ph.D. students, and wise counsel when asked.

From 1967 to 1991, Len Berkovitz was Associate Editor, Editor and Managing Editor of *SIAM Journal on Control and Optimization*. He had a major role in maintaining its reputation as one of the premier journals in its field. Len also served for many years on the editorial board for the *Journal of Optimization Theory and Applications* and the *Journal of Mathematical Analysis and Applications*. From 1985 to 1991, he was a member of the Editorial Committee of *Mathematical Reviews*.

Len Berkovitz was admired and respected by all for his kindness, integrity, and positive outlook. He is sorely missed by family, students, colleagues, and friends.

William Browning, Applied Mathematics, Inc.
Wendell Fleming, Brown University
Joseph Lipman, Purdue University
Leonard Lipshitz, Purdue University
Bradley Lucier, Purdue University

Memorial Resolution
for
Theodora Anne Ulrey Andrews
Professor Emeritus of Library Science
1921 – 2008

Theodora (“Teddy”) Andrews, Professor Emeritus of Library Science, passed away August 27, 2008, at St. Elizabeth Medical Center in Lafayette, Indiana. She was born on October 14, 1921, in Carroll County, Indiana and grew up in West Lafayette, graduating from West Lafayette High School in 1939. She attended Purdue University until 1942 when she left to marry. In 1945 she returned to work at the Purdue Libraries, eventually earning a bachelor’s degree from Purdue in 1953 and a master’s degree in library science in 1955 from the University of Illinois.

Professor Andrews began her career with the Libraries in the technical services department, cataloging materials for the various science libraries. John Moriarty, director of the Libraries (1944-1969), encouraged her to complete her bachelor’s degree in science and also to continue her education and complete a master’s degree in library science. In 1956, Professor Andrews became the second pharmacy librarian at Purdue, succeeding Miss Bernice L. Dunten, who had been the librarian since the then “new” pharmacy building was built in 1930 (now part of Schleman Hall). When the present pharmacy building was under construction in 1969-70, Professor Andrews consulted with the architect on the design and layout of the library. She continued as the pharmacy librarian, adding nursing and health sciences in 1979, until 1991 when she became pharmacy bibliographer, assisting Varro E. Tyler, dean emeritus of the School of Pharmacy, until her retirement in 1992.

Throughout her career, Teddy focused on providing access to the pharmaceutical literature by compiling, evaluating, organizing, and publishing extensive, annotated bibliographies. Beginning in 1964 with a list of pharmacy periodicals published worldwide for the American Society of Hospital Pharmacists, she wrote six books over the next twenty-three years, describing and evaluating the resources available on such topics as drug abuse, socio-economic aspects of medicine, herbal medicine, and pharmacy and the pharmaceutical sciences. Her publications were used by many librarians at other schools of pharmacy to develop their library collections.

Professor Andrews was active in the American Library Association (ALA), the Medical Library Association (MLA), and the Special Libraries Association (SLA). She was one of the founding members of the Pharmacy and Drug Information Section in MLA and of the Libraries/Educational Resources Section of the American Association of Colleges of Pharmacy (AACP). She also served on the SLA Board of Directors (1966-69). After the Purdue librarians were granted full faculty status in 1969, Teddy was an active, and frequently vocal, supporter of the American Association of University Professors.

She is survived by her son, Martin H. Andrews, three grandchildren, one great-grandchild, her sister, Margaret Taylor, and several nephews, one of whom, Michael Humnicky, followed her and his late mother into the profession.

Vicki J. Killion
Nancy S. Hewison
Gretchen M. Stephens