MINUTES
of the
Board of Control
Michigan Technological University
Houghton, Michigan

Meeting of
May 2, 2008
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MINUTES OF THE FORMAL SESSION OF THE BOARD OF CONTROL OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call in Ballroom B of the Memorial Union Building on the campus of Michigan Technological University in the City of Houghton, Michigan at eight thirty o’clock on the morning of May 2, 2008.

The Board of Control of Michigan Technological University met in formal session at the University’s campus at Michigan Technological University in the City of Houghton, State of Michigan, at 8:30 a.m., on the 2nd day of May, 2008, in Ballroom B of the Memorial Union Building. The place, hour, and date duly established and duly published for the holding of such a meeting.

The meeting was called to order by the Chair, K. Clark, and a quorum was declared present.

The following members of the Board of Control were present:

    K. I. Clark, Chair
    L. D. Ashford
    D. J. Brule
    R. A. Gronevelt
    S. J. Hicks
    R. A. Kershner
    M. K. Richardson
    G. D. Mroz, ex officio

The following members were absent:

    R. A. Reck

Also present during part or all of the session were: Dale R. Tahtinen, Secretary of the Board and Vice President for Governmental Relations; Daniel D. Greenlee, Treasurer and Chief Financial Officer; George Butvilas, Chair of the Michigan Tech Fund Board of Directors; Lesley Lovett-Doust, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Shea McGrew, Vice President of Advancement and Marketing; Les Cook, Vice President for Student Affairs; Ellen S. Horsch, Vice President for Administration; Paul Tomasi, University Counsel; and various members of the faculty, administrative staff, student body, press and public.

Where item numbers are used, they refer to corresponding item numbers in the agenda, in the hands of the Board members.
I. APPROVAL OF AGENDA

Board Secretary, D. Tahtinen, recommended that the agenda be amended to add item V-B-5. Refinancing of 1998 Bond Issue.

It was moved by M. Richardson, supported by R. Kershner, and passed by voice vote without dissent, that the agenda of the formal session of May 2, 2008, be approved as amended.

II. APPROVAL OF MINUTES

It was moved by R. Gronevelt, supported by D. Brule, and passed by voice vote without dissent, that the minutes of the formal session of February 28, 2008 be approved.

III. CLOSED SESSION

It was moved by D. Brule, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control proceeds into closed session to consider material exempt from discussion or disclosure by state or federal statute. (A closed session for such a purpose is provided for in Section 8 (h) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:
Richardson – Yes
Brule - Yes
Hicks - Yes
Ashford – Yes

Gronevelt – Yes
Clark - Yes
Kershner – Yes

The motion passed.

The Board of Control reconvened in open session with a quorum present.

IV. OPENING REMARKS

Chair’s Comments

I would like to welcome everyone to today’s Board of Control meeting and to this Commencement weekend celebration of achievement and success. This is always a special and exciting time of the year, as we honor our graduates and their families. I would also like to take this opportunity to welcome George Butvilas, Chairman of the Michigan Tech Fund, and thank him for taking the time to be here with us today.
On Friday, April 25 President Mroz testified before the House Appropriations Subcommittee on Higher Education at Lake Superior State University. Not surprisingly, I understand the Committee was once again highly impressed by President Mroz’s testimony and responses to questions raised. He focused on Michigan Tech’s continuing growing enrollment, the 83% of STEM related graduates that are critical to Michigan’s economic growth, our 97% placement rate for graduates, and Michigan Tech’s world-class cutting edge research.

And speaking of which, I would like to highlight the excellent progress which is continuing to be made in securing research funding and recognition. Now, I would like to highlight the following project and achievements:

Researchers from the School of Forest Resources and Environmental Science and colleagues at six other institutions in the United States and Canada have received a $3.8 million, four-year grant from the US Department of Energy to continue their study of the effects of greenhouse gases on northern forests.

Professor David F. Karnosky (SFRES) is director of Aspen FACE (Free-Air CO2 Enrichment), the world's largest open-air climate change research project and the only FACE site where scientists can study the interactions of elevated carbon dioxide and ground-level ozone on forest ecosystems.

Since its formation in 1995, more than 112 scientists from 10 countries have conducted research projects totaling 44 million dollars from US and international sources.

The latest grant will enable the scientists to continue their research through the 2008 and 2009 growing seasons, then conduct a final harvest and return the site to its natural state.

Assistant Professor Jeffrey Allen of Mechanical Engineering-Engineering Mechanics has received $147,286, the first year of a five-year $400,588 National Science Foundation CAREER Award.

His proposal, "Gas-liquid Interface Dynamics and Dissipation Mechanisms in Capillary-scale Two-phase Flow," continues his investigations in capillary flow, or how and why gases and liquids move (or fail to move) through tiny channels, such as those found in hydrogen fuel cells.

Two-phase flow, a branch of fluid mechanics, examines systems such as boilers, in which a gas and a liquid are present. Allen investigates two-phase flow through very narrow tubes, which has applications in microelectrical-mechanical systems, microscale heat exchangers, and space-based processing and thermal control technologies, as well as fuel cells.

Two-phase flow at this very small scale is not well understood. With his CAREER award, Allen aims to develop design tools that will improve the engineering of these systems. Ultimately, he expects to develop advanced technologies that will improve water management in fuel cells.

Fuel cells generate water vapor as a byproduct, and as a result, they can literally freeze in winter or flood if the water is not drawn away. Managing water has been a major obstacle to
the commercialization of fuel-cell-powered vehicles.

Secondary, undergraduate and graduate students will all be involved in the project, creating a stream of student talent in the growing field of microscale devices and fuel cells.

The Applied Portfolio Management Program (APMP) team from Michigan Technological University won their third national undergraduate investment strategy championship, by earning a 13 percent return on their 1 million dollar investment.

At the annual investment challenge called Redefining Investment Strategy Education (RISE) sponsored by the University of Dayton, the Michigan Tech team’s 13 percent return on investment beat 267 universities from more than 50 nations in the value category. Their back-to-back victory—they won the same category in 2007—is the third win in eight years for Michigan Tech.

The money they invest comes from private donors. The profits go into the Michigan Tech Fund—the University’s official nonprofit fund management and gift solicitation agency—to be used to support student scholarships and for APMP expenses.

Michigan Tech’s APMP team consists of graduating seniors Lorn Randell, Bradly Harry, Joel Pergolski, Mark Malekoff, Kartikeya Srivastava, and Korey Capello, and juniors Kayla McCormick and Tony Hellenbrand. The team is led by faculty advisor Dean Johnson of the School of Business and Economics.

The Board would also like to recognize several faculty members that have made significant contributions to Michigan Tech and their chosen field of study and are being recommended for promotion and/or promotion and tenure later in today’s meeting.

The candidates recommended for promotion from assistant professor without tenure to associate professor with tenure are Victor Busov and Christopher Webster of the School of Forest Resources & Environmental Science; Tricia Chigan, Jindong Tan, of Electrical and Computer Engineering; Jason Blough of Mechanical Engineering-Engineering Mechanics; Haiying Liu of Chemistry; William Helton and Kedmon Hungwe of Cognitive & Learning Sciences; M. Ann Brady of Humanities; Ranjit Pati of Physics; Timothy Scarlett of Social Sciences, and Christopher Plummer of Visual and Performing Arts. Please stand and be recognized.

The candidate recommended for promotion from associate professor without tenure to associate professor with tenure is Jeffrey Naber of Mechanical Engineering-Engineering Mechanics, and from associate professor without tenure to professor with tenure is Brian Fick of Physics. Please stand and be recognized.

The candidates recommended for promotion from associate professor with tenure to professor with tenure are Shaker Joshi of the School of Forest Resources & Environmental Science; Gerard Caneba of Chemical Engineering; Noel Urban of Civil & Environmental Engineering; Nancy Grimm of Humanities; Shuanglin Zhang of Mathematical Sciences, and Raymond Shaw of Physics. Please stand and be recognized.
Finally, I would also like to recognize our own Dan Greenlee, who has been appointed by the National Association of College and University Business Officer's organization in Washington DC, to help design and implement a program for Chief Business Officer's and VP's of Finance, on the process of financing campus facilities and infrastructure improvements, through partnerships and/or debt management. This is a real tribute to Dan’s leadership experience and creativity in this area and will bring even more national recognition to Michigan Tech.

President’s Comments

I’d like to add my congratulations to those who have been promoted today and assure the Board that these are all top flight faculty members. The Provost and I go through the packages at the end of the process after they have gone through intense scrutiny at the department, school and college level. I have to tell you when you open up some of these packages and you see the letters of reference from the other universities and the first one is from a Noble Laureate at the University of Chicago, and the next one is from somebody from Princeton, and the next is from somebody from Harvard it makes a strong impression. The department chairs are doing a great job of making sure that people are mentored well and it’s being recognized around the country.

Also, congratulations to all of the students who are graduating tomorrow and their parents on a job well done. As you know, Michigan Tech is not an easy school, and when you graduate you have really accomplished something. We will be looking at about 1,000 students tomorrow who have accomplished something great.

Summer months are coming up and we will continue to do teaching and research. It looks like we will have record enrollment for the summer this year. Not quite sure about that yet, but it’s looking very positive and certainly the research efforts go on year around. We will also be preparing the campus for the Class of 2013 who will be joining us in August, and at the same time prepare the education for those students. Although they are not going to graduate for a while, we need to make sure that they understand that it’s their ability to learn that is most important.

A lot has been accomplished this past year. It has been a very good year. I’m not going to review it all, but I would say anecdotally there is not a day that I don’t open up my email and find some new accomplishment. This morning’s accomplishment, as it often is, was a letter from Bill Predebon stating that Mohen Rao just learned that he has been granted a Fulbright Fellowship and will be spending a year in India. We are very pleased with his achievements. We have had a number of Career Award winners and this kind of national and international recognition is great for our faculty and for Michigan Tech.

We are also excited to report of the expanding partnerships that we have been able to shepherd this past year. Most people know about General Electric and Ford. The Board members have a copy of a brochure describing the partnership of GE and Michigan Tech, which discusses how GE employees who live and work in Houghton will now be able to continue their education at Michigan Tech. In addition, there has been an effort this past year to have a closer and stronger relationship with Cleveland Cliffs Iron Company. The Board
had a chance last night to learn of a new partnership with IBM. This has been shepherded by one of our alums John Soyting who is a Vice President for Solutions and Software out of Austin, Texas. John nominated Michigan Tech to be in their executive partnership program and we were accepted. We are very happy with that and the interesting thing about John nominating us is something that is becoming a more frequent story at Michigan Tech. It starts when an alumn becomes interested in Michigan Tech gets on an advisory board. John served on the College of Engineering Board for a number of years and is now on the Campaign Committee. Through their involvement with Michigan Tech they learn more about the capabilities of Michigan Tech. Through this process John has funded a project from IBM through the School of Business for IT Oxygen working on open source software, and brought Michigan Tech to the attention of the senior leadership of IBM. We are really looking forward to establishing more partnerships in the future.

Thank you again for all the support of the Board, and thanks to everybody in the room for doing the right things right everyday.

V. ACTION/DISCUSSION ITEMS

V-A. Academic Affairs Committee Report

Mr. Gronevelt reported that the Academic Affairs Committee met yesterday morning and reviewed Strategic Goal 2, which is to “deliver a distinctive and rigorous discovery-based learning experience grounded in science, engineering, technology sustainability, and the business of innovation”. Provost Lovett-Doust will be reporting on this goal later in today’s meeting.

Les Cook introduced John Lehman. John gave the Committee a detailed description of the Financial Aid process and administration. He showed us that the university is now doing more to address both excellence and financial need. The goal is to ensure strong students who are also in need of support are able to come to Michigan Tech. We are pleased to see how the allocation of financial aid is being used to the benefit of our students. It is also good to see how the staff have analyzed the relevant issues and built a model for financial aid that works well and puts our resources where they are most needed.

Our programs are distinctive, because of our great emphasis on STEM (science technology engineering and math). There is no university like us in the State, and only a few across the country.

We are distinctive in offering our undergraduates hands-on learning through labs, senior design and research both in the U.S. and abroad. Our size allows us to be adaptable, and the talents of our faculty and staff allow us to create new programs in areas where student interest and career opportunities are high.

Goals include growth of online education, particularly at the graduate level. This will meet some of the demand from industry and society in general for more advanced knowledge, and additional skills such as management, sustainability, technology transfer and global
perspectives. It is also likely that we will offer more online courses that prepare students for the transition from community college to university.

The Committee was provided with the following update on the strategic hiring in Sustainability:

- The Blue Ribbon committee is close to finalizing its recommendations for the three Robbins endowed chairs in Sustainability.
- The Sustainable Futures Hiring Initiative Committee has been reviewing online comments on the candidates who have been visiting over the month of April. Offers are out to 4 outstanding candidates. One has accepted, the others are working with the Deans and Chairs on their research needs, but we expect them to accept. The remaining positions will be filled very shortly.
- Provost Lovett-Doust praised the large group of colleagues who reviewed the 220 original applications, filtered to 70 and then to a pool of outstanding candidates for interview. The interview process was supported by lots of work from all the host departments, schools and institutes, and all of the candidates remarked on the quality, energy and enthusiasm of the Michigan Tech faculty, staff and students.

The Committee spent the remainder of the time in an informal discussion with the Provost regarding Academic Affairs in general, and how the Committee could contribute to the success of Michigan Tech’s academic programs.


Dr. Lovett-Doust provided the Board with the following report.
Strategic Plan

- Great faculty, staff and students
- Distinctive programs
- Innovative research development and scholarship

Where are our programs?

<table>
<thead>
<tr>
<th>College or school</th>
<th>U/G majors</th>
<th>minors</th>
<th>certificates</th>
<th>MS</th>
<th>PhD</th>
<th>Row total</th>
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</thead>
<tbody>
<tr>
<td>COE</td>
<td>12</td>
<td>12</td>
<td>3</td>
<td>15</td>
<td>11</td>
<td>53</td>
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<tr>
<td>CSA</td>
<td>29</td>
<td>42</td>
<td>7</td>
<td>9</td>
<td>8</td>
<td>95</td>
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<tr>
<td>SBE</td>
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<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>7</td>
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<tr>
<td>SFRES</td>
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<td>1</td>
<td>5</td>
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<td>12</td>
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<tr>
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<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Interdis. &amp; UEPs</td>
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<td>7</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>Total</td>
<td>56</td>
<td>63</td>
<td>17</td>
<td>32</td>
<td>22</td>
<td>190</td>
</tr>
</tbody>
</table>

Distinctive? about half of these have titles seen in <50% of Michigan's State Universities.

Where are our majors? (Fall '07 data)

<table>
<thead>
<tr>
<th>College or school</th>
<th>U/G programs</th>
<th>Masters</th>
<th>Doctoral</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE</td>
<td>3,254</td>
<td>261</td>
<td>205</td>
<td>3,720</td>
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<td>CSA</td>
<td>1,327</td>
<td>110</td>
<td>180</td>
<td>1,617</td>
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<tr>
<td>SBE</td>
<td>457</td>
<td>34</td>
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<td>491</td>
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<td>SFRES</td>
<td>180</td>
<td>43</td>
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<tr>
<td>SOT</td>
<td>473</td>
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<td>473</td>
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<tr>
<td>Interdis. &amp; UEPs</td>
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<td></td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>5,691</td>
<td>448</td>
<td>422</td>
<td>6,561</td>
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</table>

25% of CSA students are in programs that did not exist in 2000.
Where are our u/grad Student Credit hours (SCH)? 06/07

<table>
<thead>
<tr>
<th>College or School</th>
<th>U/G program (classroom)</th>
<th>U/G program (labs)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE</td>
<td>49,906</td>
<td>11,967</td>
<td>61,873</td>
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<tr>
<td>CSA</td>
<td>85,902</td>
<td>11,113</td>
<td>97,015</td>
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<td>SBE</td>
<td>16,031</td>
<td>47</td>
<td>16,078</td>
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<td>SFRES</td>
<td>3,992</td>
<td>817</td>
<td>4,809</td>
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<tr>
<td>SOT</td>
<td>7642</td>
<td>2088</td>
<td>9,730</td>
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<tr>
<td>Total</td>
<td>163,473</td>
<td>26,032</td>
<td>189,505</td>
</tr>
</tbody>
</table>

COE has 2.5x # majors in CSA and 0.58x as many classroom SCH

Student numbers since 1987

Student numbers looking forward
What is distinctive about ALL of our programs?

- They are connected to our "middle name"—created in a technological framework.
- Discovery-based learning
  - 31% of courses have labs
  - 74% of Baccalaureate graduates did Senior design/research projects
- STEM emphasis
  - 79.8% of undergraduate, 70.4% of graduate students
- Context of sustainability, global perspective
- Driven by imagination
- And a spirit of innovation
- Goal: technology transfer to enhance the quality of life on this planet
- Directly/indirectly build independence, leadership and a global perspective

MichiganTech
Goal 2

- Deliver a distinctive and rigorous discovery-based learning experience grounded in science, engineering, technology, sustainability, and the business of innovation.

Be smart.

Michigan Tech
Goal 2

- Deliver a distinctive and rigorous discovery-based learning experience grounded in science, engineering, technology, sustainability, and the business of innovation

2.1 Provide dynamic experiential learning that integrates instruction, research and innovation in undergraduate and graduate programs

- SURF and summer research jobs
- Senior Design
- International Senior Design
- Field courses
- Teacher preparation (Secondary: average of 26/yr)
- Employment, volunteers in Learning Centers
- Modular techniques courses in Chemistry
- International Research
- PC-MI Programs

expand funded research opportunities for students

- More SURF and HI summer research scholarships
- Compile integrated list of paid summer research jobs; post online
- Find more corporate partners for Enterprise and SD projects
- Support student researchers in centers and institutes
- Hire student researchers to support AQIP (institutional assessment) projects
- Encourage faculty to use research funds to support students (PhD, MS and undergraduate)
incorporate and expand discovery-based programs in all curricula

- Ensure resources for learning opportunities including lab, field, and simulations
  - Ford Forest, Center for Experimental Computation-MITRI
- Real-world mesocosms
  - Dow Corning provided sustaining support for Unit Operations Lab (Chemical Engineering)
- Explicitly integrate, connect learning in lecture and lab

provide international opportunities in all curricula

- Report of President's Committee on International Education and Research
- Review of general education will "back engineer" from desired outcomes to components of general education
- General Education Committee will meet summer 2008 to determine how a global perspective will be attained by all graduates
- Other candidate general education outcomes to incorporate:
  - sustainability, social and environmental responsibility, leadership, diversity, computer competence, understanding of technology, etc.

expand the use of technology in campus and online learning

- Summer 2008: reorganization of summer and online learning under the single flag of "Flexible Learning"
- Flexible Learning Advisory Committee will meet summer 2008 to evaluate funding structures and promotion of high quality flexible learning at Michigan Tech
- Classroom technology will be enhanced by $100,000 this year, and next (AQIP recommendation from 2007-8)
2.2 Develop undergraduate and graduate programs in new and emerging areas

- 10 new hires in Sustainability should allow program development in strategic areas; possible new program topics under discussion:
  - PhD Environmental Policy and Economics
  - PhD Nanotechnology
    - certificate in sustainability is established; and would be available to students in a wide variety of PhD programs
- Other possible new programs:
  - BS Science Technology & Society/Education
  - Minor Sustainable Science and Engineering
- Strengthen new PhD in Atmospheric Sciences

Expand combined bachelor-master degree and dual-degree graduate programs

- Enhanced advising for students interested in > 1 area (academic advisors, deans, chairs, depts.)
- Evaluate “modular curriculum” to combine minors and majors from a wide variety of areas (deans, chairs, depts.)
- Examine new professional standards for engineering graduates and “4+1” models (see Duderstadt report etc.) (dean, chairs, associate deans COE)

2.3 Provide exemplary student life activities

- *Les Cook will address this in his presentation for Student Affairs; however these goals are also part of our desired ACADEMIC outcomes*
- initiate innovative student-centered activities, programs and services (increase investment in Learning Centers)
- promote and encourage student engagement and civic responsibility (D80, International Senior design, CentILE, Community Senior Design (?))
- produce graduates with strong leadership capabilities (Pavlis, ~ 10 courses across campus that address leadership, ROTC programming)
V-A-3. Appointments, Not Involving Tenure and/or Promotion

It was moved by R. Kershner, supported by S. Hicks, and passed by voice vote without dissent, that the Board of Control approves the appointments listed herein. The appointments do not include tenure or promotion.

Appointment without Tenure for Two Years
Effective August 18, 2008

Joanne Scillitoe  Assistant Professor  School of Business & Economics
Jacqueline Grant  Assistant Professor  School of Forest Res & Environmental Sci
John Vucetich  Assistant Professor  School of Forest Res & Environmental Sci
Brian Davis  Assistant Professor  School of Technology
Guy Hembroff  Assistant Professor  School of Technology
John Irwin  Associate Professor  School of Technology
Robert Liimakka  Assistant Professor  School of Technology
Ryan Gilbert  Assistant Professor  Biomedical Engineering
Jeremy Goldman  Assistant Professor  Biomedical Engineering
Keat Ong  Assistant Professor  Biomedical Engineering
Rupak Rajachar  Assistant Professor  Biomedical Engineering
Veronica Griffis  Assistant Professor  Civil & Environmental Engineering
Zhanping You  Assistant Professor  Civil & Environmental Engineering
Melissa Meyer  Assistant Professor  Electrical & Computer Engineering
Zhijun Zhao  Assistant Professor  Electrical & Computer Engineering
Jeffrey Allen  Assistant Professor  Mechanical Engrg-Engrg Mechanics
Abhijit Mukherjee  Assistant Professor  Mechanical Engrg-Engrg Mechanics
Gregory Odegard  Assistant Professor  Chemical Engineering
Shiyue Fang  Assistant Professor  Cognitive & Learning Sciences
Shari Stockero  Assistant Professor  Computer Science
Ali Ebnesasir  Assistant Professor  Computer Science
Robert Pastel  Assistant Professor  Exercise Science, Health & Physical Ed
Jason Carter  Assistant Professor  Humanities
Marika Seigel  Assistant Professor  Mathematical Sciences
Melissa Keranen  Assistant Professor  Social Sciences
Samuel Sweitz  Assistant Professor

Appointment without Tenure for One Year
Effective August 18, 2008

Hetalkumar Jasani  Assistant Professor  School of Technology
Joseph Holles  Assistant Professor  Chemical Engineering
Piyush Mishra  Assistant Professor  Electrical & Computer Engineering
Eugenijus Urnezius  Assistant Professor  Chemistry
Byung Choi  Assistant Professor  Computer Science
Jnan Blau  Assistant Professor  Humanities
Erin Smith  Assistant Professor  Humanities

V-A-4. Appointments, Involving Tenure and/or Promotion

It was moved by D. Brule, supported by S. Hicks, and passed by voice vote without dissent, that the Board of Control approves the appointments involving tenure and/or promotion listed herein.

Promotion from Assistant Professor without Tenure to Associate Professor with Tenure

Victor Busov  School of Forest Resources & Environmental Science
Christopher Webster  School of Forest Resources & Environmental Science
Chunxiao (Tricia) Chigan  Electrical & Computer Engineering
Jindong Tan  Electrical & Computer Engineering
Jason Blough  Mechanical Engineering-Engineering Mechanics
Haiying Liu  Chemistry
V-A-5. Promotions

It was moved by D. Brule, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control approves the promotions listed herein.

Promotion from Associate Professor with Tenure to Professor with Tenure

Chandrashekhar Joshi
Gerard Caneba
Noel Urban
Nancy Grimm
Shuanglin Zhang
Raymond Shaw
School of Forest Resources & Environmental Science
Chemical Engineering
Civil & Environmental Engineering
Humanities
Mathematical Sciences
Physics

V-A-6. Degrees in Course

It was moved by D. Brule, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.

Michigan Technological University
Degrees Awarded for Conferral Term 200805

Associate in Applied Science in Engineering Technology
Nickelson J Paske
Associate in Applied Science in Civil Engineering Technology
Joe C Carpenter
Dana Lynn DesRochers - Cum Laude
Jason Michael Jurmu
Brandon T Martzke
Jonathan Alan Salinas
Paul F St Louis - Magna Cum Laude

Associate in Applied Science in Electromechanical Engineering Technology
Michael Joseph Graff

Bachelor of Arts in Liberal Arts
Jill Christine Salmen

Bachelor of Arts in Liberal Arts - History
Bryan J Riddle - Cum Laude

Bachelor of Arts in Scientific and Technical Communication
Jonathan Curt Soper
Heather Marie Wiitanen

Bachelor of Science in Business Administration
Sayed Saheb AlMousawi
April Sue Beaudoin
Darrell J Blumhardt
Rachel Elaine Boyle
Molissa Grace Bush
Sydney E Curry
Lynn M Czarnecki
Joseph Daniel DeMartin
Jordan James Divine
Kristen Kay Dube
Robert Adam Frankovich - Magna Cum Laude
Phillip James Franzo
Shawn M Granlund
Jamie Christine Hansen
Jacob Edward Haughn
Scott Kenneth Johnson
Trisia Lee Kappler
Kenneth Michael Kowalski
Michelle Beth Larche
Amanda L Leep
Amanda M Mackenthun
Lee Geno Marana
Jason Paul Mayra - Cum Laude
Cody D Meier
Wade J Michael
Cheyne R Nelson
Christopher John Nowak
Nicolle L Prenkert
Amanda Lynn Rossman - Summa Cum Laude
Johanna Marie Rossow - Cum Laude
Brian Cha Schmidt
Edward Michael Simonsen
Spencer Joel Vickerman
Fei Wang
Kirk John Williams
Michael Pavlowich Yarroc
Jiaye Zou

Bachelor of Science in Economics
Scott S Grajeda

Bachelor of Science in Applied Geophysics
Joshua Paul Richardson - Magna Cum Laude

Bachelor of Science in Biomedical Engineering
Lindsay Nicole Barlow - Magna Cum Laude
Megan Ann Benam - Cum Laude
Andrew B Delvaux - Cum Laude
Robin Y Fu
Nathan Eddie Henry
Christina Marie Herrman
Emily Lynn Ongstad - Cum Laude
Nicole M Pietrzak

Bachelor of Science in Engineering
Dawn Marie Chianetta

Bachelor of Science in Civil Engineering
Dale E Allen
Lauren Anne Bendes - Cum Laude
Micah J Brooks
Christopher K Brown
Jeremy Scott Brunette
David Gerald Conn
Christopher P Della
DaVaughn Terrell Dixon
Jay A Dulmes
Jason Scott Edwards
Patrick Drees Flannery
Kristen Elyse Fuller
Adam Robert Gaugh
Brian James Geiger - Summa Cum Laude
Laura Elizabeth Hernandez
Daniel Ryan Hinzmann
Karl Byrne Hopps
Krag David Hopps
James Michael Jacobs
Bryan Ronald Learst
Nicholas Daniel Link
Chris Joseph Maier
Esteban J Mata
John Francis McClellan - Cum Laude
Matthew R Miller - Magna Cum Laude
Deanna Marie Mussatti
Michael Harrison Ostendorf - Cum Laude
Scott R Saigeon
Jeremy Jeffrey Schrot
Ryan James Sherman - Summa Cum Laude
Katrina Marie Stewart
Trevor Anthony VandenBerg
David Paul VanderMolen
Mary Brooke Warren
Justin Alan Westbrook
Justin Robert Wickman
Aimee Marie Yonke - Cum Laude

Bachelor of Science in Chemical Engineering
Michael Patrick Laurain

Bachelor of Science in Computer Engineering
Theodore Orsini Brown
Bradley William Callahan
Chad M Deraps - Magna Cum Laude
Eric James Eisenbeisz - Cum Laude
Zebadiah Ray Gardner - Cum Laude
Eric S Jackson
Benjamin John Kozlowski - Cum Laude
Hans A Nyberg - Cum Laude
David J Olson - Cum Laude
Kent Allan Ratzlaff
Brett D Schauer

Bachelor of Science in Electrical Engineering
Drew R Bain
Ross Gerard Barrette
Ryan J Bishop
Andrew David Block
Mark Robert Burgener
Ben D Collins
Matthew Earl Djock - Cum Laude
Derek Paul Dougherty
Ryan D Goddard
Samuel Edgar Graham - Magna Cum Laude
Michael J Haka
Nathan Eddie Henry
Katie J Himes
Stephen R Kelley - Magna Cum Laude
Kyle Daniel Kopczyk
Peter Gatkuoth Kun
Derek LaHousse
Philip G Laflamme - Magna Cum Laude
Michelle A Larson - Magna Cum Laude
Gregory Walter LeJeune
Jonathan D May
Brett J Mcnalley
David Lee Nelms
Jeremiah Augustus W Newman
Jacob K Putz
Jeremy Richard Stocks
Chang Su - Cum Laude
Luis Manuel Tomioka

Bachelor of Science in Environmental Engineering
Rachel Leigh Blink
Colin Weston Daining
Jonathan Ryan Hill
Sunny G Pereira
Jessica Lynn Robinson - Cum Laude
Eric James Schwiderson
Carolyn M Theiler
Daniel J Titze - Cum Laude

Bachelor of Science in Geology
Rex Adam Crouch
Christina Marie Houts

Bachelor of Science in Mechanical Engineering
Anthony Hale Abbott
Heather Nicole Aho - Cum Laude
Muammer Din Arif
John Thomas Bagley
Bryan John Baxter
Garren Anton Beuchamp
Matthew Edward Bengry
Michael Kenneth Billmeier
Nathan Lee Bosscher
Jeffery Alan Bouman - Magna Cum Laude
Kevin Michael Bourgo
Erin Ruth Buckner
Joseph Richard Buono - Magna Cum Laude
Kristin A Cauley
Darrald Earl Yung Chao - Summa Cum Laude
Ryan Brodie Cook
Christopher Scott Deprest
Jeremy J Dion - Summa Cum Laude
Luke Robinson Donovan
Andrew Michael Downer - Magna Cum Laude
Nickolaus Kenneth Dumler
Gregory John Ehlerl - Magna Cum Laude
Thomas W Faussett
Edmund Wester Fitzgerald
Kyle Richard Gleason
Kyle Anthony Hauswirth - Cum Laude
David James Henderson
Ryan Christopher Hoepf
Jacob Thomas Horn
Ben Allyn Johnson
Carl James Kauppila
Varun Kaushik
Scott Richard Kiel
Haijo Adam Kiel
Uk Jung Kim
Thomas Michael Knuth
Joseph P Lambie
Timothy William Lau - Cum Laude
Casey Michael Luskin
Kyle David Lyngstad - Magna Cum Laude
David Joseph Malek
Kyle Joseph Marsh
John J McCabe - Cum Laude
Scott T Melin
Jeffrey Adam Miller - Cum Laude
Matthew Ronald Miller
Christopher W Moore
Erik Allan Moro - Magna Cum Laude
Christopher Ryan Myers
Evan Edward Nelson
Edward Ng - Cum Laude
Justin Lee Novak
Grant Joseph Ovist
Matthew Thomas Peterson
Gregory T Polkus
Christopher James Prenkert
Jeffrey Edward Pruetz
Stacey Lynn Pyke
Howard Phillip Reedy
Brandon Toby Rouse - Magna Cum Laude
Jason James Rusch
Brian Cha Schmidt
Abhilash Singh - Magna Cum Laude
Divyang Singh - Magna Cum Laude
Aaron James Sklenar
Carey Wade Slater
Troy Douglass Smith
Benjamin Carl Stanaway
David M Steslicki
Joshua David Stevens
John David Sturza - Magna Cum Laude
Jared Robert Suster - Magna Cum Laude
Aik How Tan - Cum Laude
Jacob Spaar Tretter
Jack Christopher VanAntwerp
Michael Paul VanDeHey
Nicholas Jamison Wood - Magna Cum Laude
Douglas John Woodruff
Chad D Ziesemer - Summa Cum Laude

Bachelor of Science in Materials Science and Engineering
Joshua Michael Bero - Summa Cum Laude
John T Pomeroy
Adam M Schaller

Bachelor of Science in Applied Ecology and Environmental Sciences
Marcy Ann Erickson - Magna Cum Laude
Chad Robert Fortin
Sarah Catherine Molitoris

Bachelor of Science in Forestry
Matthew Aaron Abbotts
Tiffany Marie Arp
Jonathan L Bosma
Matthew Robert Brooks
Tim John Gebuhr
Jesse Daniel Provencher
Zachary David Reusch
Eric Michael VanWormer
Daniel R Wiarda
Travis Michael Winchester
Aaron Ross Wykhuis - Cum Laude

Bachelor of Science in Wildlife Ecology and Management
Kurt Palmer Doran
Chad M Geurts
Eric Christopher Koronka
Erin Nicole Largent - Cum Laude
Bachelor of Science in Anthropology
Craig Patrick Wilson - Magna Cum Laude

Bachelor of Science in Biological Sciences
Patrick John Boyle
Luke Allen Edwards - Magna Cum Laude
Erin Morgan Haglund - Cum Laude
David S Jayroe
Christa Marie Luokkala
Abrah Elizabeth Maki - Cum Laude
Daniel Patrick McGarry
Jeremy Gerard Olach
Julie Elizabeth Reynolds - Magna Cum Laude
Ashley Elizabeth Zehren - Summa Cum Laude

Bachelor of Science in Chemistry
Justin R Gray
Karl J Koebke
Christopher James Kupitz
Irene K Metz
Rachel Marie Pagel

Bachelor of Science in Pharmaceutical Chemistry
Emily Jeanne White

Bachelor of Science in Clinical Laboratory Science
Marie Kate Lanczy - Cum Laude

Bachelor of Science in Computer Science
Matthew J Breen
Daniel Ross DeVette - Cum Laude
Jonah Donald Guettler - Cum Laude
Wesley R Hansen
Paul C Himes - Magna Cum Laude
Michael Paul Hyde
Jonathon Michael Klimowicz
Derek LaHousse
Mikola C Lysenko
Eric Andrew Merrill

Bachelor of Science in Computer Systems Science
Matthew Bourdeau
Ryan F DeShone

Bachelor of Science in Audio Production and Technology
Kevin C Dixon
Bachelor of Science in Mathematics
Matthew Ryan Guyton
Toby John Kangas - Summa Cum Laude
David Brian Karnosky
Melissa Ann Petrelius - Magna Cum Laude
Kenneth James Riedel - Magna Cum Laude
Kevin Michael Smith
Mary E Walker

Bachelor of Science in Psychology
Jennifer Lee Kok
Marlena Ruth Mullens
Elizabeth Ellen Oldiges
Donald James Rozsi

Bachelor of Science in Software Engineering
John Paul Perich

Bachelor of Science in Social Sciences
Christopher Matthew Bryan
Steven Christopher Fantetti
William Leonard Koenig
David James Robb

Bachelor of Science in Scientific and Technical Communication
Benjamin C Carlson
Rex Adam Crouch
Lynn M Czarnecki
Damon John Davis
Jeffrey Eldon Hanley
Laura Elizabeth Hernandez
Christina Marie Houts
Asha Madeleine Murrell
Candace Daneen Thomas

Bachelor of Science in Construction Management
Aaron David Cohn
Rodger Alan Hongisto

Bachelor of Science in Computer Network and System Administration
Chris David Ankeny
Jason Erickson
Kenneth Michael Kowalski
Bruce Lambert Kuhr - Magna Cum Laude
Robert J McGarry

Bachelor of Science in Electrical Engineering Technology
Nicole M Bauldry
Michael Joseph Graff
Russell S Gyde - Magna Cum Laude
Benjamin Michael Hable
Timothy Daniel Metoff
Hugo Molina
Emmanuel Okwera Okuka
Phillip Dean Rengers
Daniel Douglas Wrock
Jiajun You

**Bachelor of Science in Industrial Technology**
Curtis Jay Saarinen
Yiheng Zhao

**Bachelor of Science in Surveying**
Marc Edward Sprague
Ayman A Tamimi
Mark VanderVeen - Summa Cum Laude

**Bachelor of Science in Mechanical Engineering Technology**
Brandon John LaSota
John Richard Lampart
Paul Roger Mayer
Bradley D Reed - Magna Cum Laude
Edward M Rentmeester - Cum Laude
Spencer Joel Vickerman

**Bachelor of Science in Surveying Engineering**
Alan Stuart Adams - Summa Cum Laude
Daniel Lawrence Cole
Ricky Allen DeVisch
David Nelson Hunter
Lars Gerald Hyrkas
Gary Alan Nigro
Karen L Warren - Cum Laude
Chad Steven Waterhouse - Magna Cum Laude
Eric Alan Webster

**Master of Business Administr. in Business Administration**
Javier Fernandez
Pradeep Chand Varman Harihara
Paul Matthew Linn
Madeleine M Norman
Dennis Alfred Taylor
Lindsay Marie Worden

**Master of Forestry in Forestry**
Jeffrey Kent Breuker
Paul Robert Bruchman
Christopher Michael Nieman

**Master of Science in Business Administration**
Peter Alan Larsen

**Master of Science in Civil Engineering**
Brendon Lane Pettit
Matt Zimmerman Smith

**Master of Science in Chemical Engineering**
Joshua James Carlson

**Master of Science in Electrical Engineering**
Alejandro Avendano Cecena
Senjuti Basu
Shwetha Devendra Bolagond
Bharat Choudhary
Reginald Ferguson
Christopher Thomas Fultz
Ruhai Hao
Xin Jin
Babla Lamba
Deanna Lynn Pozega
Sandhya P Prabhu
Rakesh Prasad
Akarsh Sheiendranath
Thomas Gattan Stout
Satvik Suryanarayana
Feng Wang
Jing Zhao

**Master of Science in Environmental Engineering**
Andrew M Snauffer
Jessica Marie Strane
Heather E Wright

**Master of Science in Geology**
Heinrich Muatala Muvi-Tjikalepo
Armeda Celestine VanDam

**Master of Science in Mechanical Engineering**
Laibin Cong
Eryn Renn Devola
Joel Robert Feenstra
Derek William Fultz
Punit B Gandhi
David James Grattan
Michael Todd Graziano
Ranganath Korata
Saurabh Mathur
Mehulkumar Dineshbhai Patel
Keyvan Rahmani
Andrew Walter Richards
Jeffrey Charles VanKarsen
Harshal Dattatray Vartak
Casey C Wellnitz
FNU Yeliana

Master of Science in Forest Ecology and Management
Jill Stephanie Katakowski
Nicole Maria Ricci
Lindsey Marie Shartell

Master of Science in Forestry
Bryan Keith Roosien
Casey Lynn Rosengarden

Master of Science in Applied Science Education
Annikka Marie Chrestensen

Master of Science in Biological Sciences
Leah Susan Dahlstrom
Yan Ding

Master of Science in Chemistry
John Allen Frost

Master of Science in Computer Science
Roland Gendzwill Scott
Jin A Sun
Wei Wang

Master of Science in Mathematical Sciences
Chang Liu

Master of Science in Engineering Physics
Gouri Shankar Giri

Master of Science in Physics
Liang Han
Shun Wu

Master of Science in Rhetoric and Technical Communication
Joanna Marie Schreiber
John Lee Velat
Doctor of Philosophy in Chemical Engineering
Charlotte Heather Jeltema

Doctor of Philosophy in Electrical Engineering
Jafar Pourrostam
Grant Handy Soehnel

Doctor of Philosophy in Geology
Yvonne Kay Branan

Doctor of Philosophy in Materials Science and Engineering
Hui Xia

Doctor of Philosophy in Forest Molecular Genetics and Biotechnology
Shivegowda Shikaranahalli Thammannagowda

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics
Libao An
Vikram Vijay Bapat
Kiran Nathu Khadke
Jiping Tang

Doctor of Philosophy in Chemistry
Kumaranand Palaniappan

Doctor of Philosophy in Computer Science
Yin Ma

Doctor of Philosophy in Engineering Physics
Jacob Peter Fugal
Xiaoyue Huang
Gowtham Shankara

Doctor of Philosophy in Physics
James Dominic Chye
Jiesheng Wang
Yanjie Wei
Patrick William Younk

Doctor of Philosophy in Rhetoric and Technical Communication
Julie D Estep
Thomas Patrick Henry
V-A-7. Honorary Posthumous Degree

The Administration is recommending that Mr. Jonathan M. DeCleene be awarded an Honorary Posthumous Bachelor of Science Degree in Chemical Engineering.

Jonathan DeCleene was a senior in the Department of Chemical Engineering. He completed spring semester 2006 before his struggle with a form of thyroid cancer interrupted his education and required greater focus on health concerns. Jonathan passed away on September 24, 2007. His cumulative grade point average was 2.21, and his departmental grade point was 2.46. Jonathan had earned 107 credits toward his degree and he was in good academic standing at the time of his death. The Department of Chemical Engineering initiated the recommendation and is fully supportive of awarding Jonathan an honorary posthumous degree.

It was moved by M. Richardson, supported by D. Brule, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Posthumous Bachelor of Science Degree in Chemical Engineering to Mr. Jonathan M. DeCleene.

V-B-1. Finance and Audit Committee Report

Mr. Kershner reported that the Finance and Audit Committee met yesterday afternoon with Board members D. Brule and R. Kershner in attendance and addressed the following:

Financial Aid Presentation - The Committee heard a report from Les Cook and John Lehman regarding the financial aid process, and how to properly focus or refocus our academic financial assistance in order to further the goals of the university. It was very well received and involved a lot of very common sense analysis and a good sense of planning and focus.

Standardization of Key Metrics - a presentation on standardization of key metrics, which is a product of Mr. Hicks and Mr. Greenlee working together for the purpose of identifying those numbers and statistics that could convey at a glance the direction of the university and the magnitude of the direction, was reviewed and discussed. The goal of these metrics is to bore down and find those numbers that help us analyze how things are going at the university, without spending a lot of time.

1998 Bond Issue – There is a series of bonds that were issued in 1998 for a number of projects including the Rozsa Center. Those bonds are floating rate bonds that are supported by credit insurance provided by an insurer that is presently in significant financial trouble. As a result, the effective interest on those bonds has doubled and is now running at about 6%. Mr. Greenlee has suggested, entirely appropriately, that we consider now refinancing those bonds to take that insurer out and put different bonds in place. The Committee discussed with Mr. Greenlee whether we should refinance those bonds, and we do appreciate and adopt as our own his recommendation that the $10 million face amount of that bond issue be rolled into the $6 million bond issue which we are about to put in place as we can save transactions costs and see other efficiencies. The question is whether we ought
to refund the 1998 issue on the same terms under which they were originally issued, which would provide for serving interest only until the years 2017, 2018, and 2019 and then we would have balloon payments to make to retire the entire $10 million, or should we roll that into the already approved 30 year bond issue of the $6.15 million that we talked about last time. Mr. Greenlee has done some math and determined that, and these are rough cut numbers at present value and you have to guess at a discount rate, the difference in cost to the University of those two alternatives is about $400,000. It is a matter of preference. Do we want to take on interest only and then make balloon payments in 2017, 2018, and 2019 or do we want to enter into an amortization loan where we are retiring a little bit of the principal every year but taking 30 years to do it? That question will be before the Board to be decided later in the meeting.

Budget Planning - The Committee reviewed the Administration’s assumptions and methodology for approaching a proposed budget for the next fiscal year. This time around much remains to be done, and the Finance Committee will be meeting again in June to go over that in some detail. The three members of the Board (Brule, Kershner, Gronevelt) that were present expressed some concern over the fact that for a number of years now (approximately 5 or 6 years) our tuition increases have been some multiple of the percentage increase in the cost of living and we just wonder how long we can sustain that type of increase. Not just from a marketing standpoint, but from the standpoint from our obligation to Michigan to educate its students at reasonable cost. Mr. Kershner asked Mr. Greenlee if he would educate the Committee on this issue. They would like to know over the last five or six years what exactly has been the percentage rate of inflation expressed in CPI or some other good measure; what has been the percentage increase in tuition; what has been the state support (size, velocity or direction) is it going up or down in percentage terms and by how much. Then on the cost side what costs have increased, is it electricity, labor, health insurance, etc. They would like a breakdown the cost side into key components and show the cost trends for those components at the June Committee meeting.

External Auditor – The Committee considered the bids for the external auditor to continue to provide audit services. A number of firms were invited to bid, and three responded. Rehmann Robson our present external auditor responded and they appear to be superior in terms of the cost that they proposed. The Tech Fund has recently engaged Rehmann Robson so that they can now audit the University and the Tech Fund in one operation. It was the consensus of the Committee that Rehmann Robson be retained for another five years. Mr. Kershner did note that we would be signing a five year contract with Rehmann Robson, however, we are not obliged to actually use them as our auditors at anytime in the future if we decide they are inappropriate.

Executive Session – The Committee met in Executive Session with University Counsel Paul Tomasi and Internal Auditor Amy Hughes as is now tradition at every meeting. There is nothing from that Executive Session that needs to be reported.

Housing Presentation - Vice President Horsch and Vice President Cook presented the housing situation at present and going forward. It does seem like it is appropriate for us to begin to consider housing and whether new housing is required, can it be provided, and the
role of the University. The Committee requested that Dr. Les Cook share his Housing Presentation with the Board at this time.
FEEDBACK FROM STUDENTS

If Michigan Tech built more housing on campus:

× 39% said they would be more inclined to live on campus

× 56% said it should be apartments (single students w/ 2+ bedrooms)

2006 Student Satisfaction survey
V-B-2. Approval of the External Auditor

The University's external auditors (certified public accountants) perform interim audit work prior to the close of our June 30 fiscal year, sometimes as early as May. Therefore, it is desirable that they be appointed prior to the June meeting of the Board of Control.

It was moved by M. Richardson, supported by R. Kershner, and passed by voice vote without dissent, that the Board of Control authorizes the Chief Financial Officer to enter into the five year agreement as presented, and to engage the certified public accounting firm Rehmann Robson to conduct the following audits for the fiscal year ending June 30, 2008:

1. The annual examination of the University's Financial Statements and Supplemental Information (all funds).
2. The annual examination of federal student financial assistance programs, including Pell Grants, Education Opportunity Grants, Perkins Loans, College Work Study Programs and Part B Loans.

3. The financial audit of the University's intercollegiate athletics programs, as mandated by the National Collegiate Athletics Association.


V-B-3. 13.6. Banking Relationships

It was moved by L. Ashford, supported by D. Brule, and passed by voice vote without dissent, that the Board of Control amends policy 13.6. Banking Relationships as presented.

The amended policy shall read as follows:

13.6. Banking Relationships

Transactions with the following financial institutions are authorized:

- Bank of America
- Citizens Bank
- Commercial National Bank of L'Anse
- Fifth Third Bank
- Michigan Tech Employees Federal Credit Union
- River Valley State Bank
- Range Bank
- The Superior National Bank & Trust Company of Hancock
- Wells Fargo

Authorized Signatories

For all Banks, any one of the following up to $25,000 (Twenty-Five Thousand Dollars):

- D.R. Tahtinen
- D.D. Greenlee
- L.M. Lovett-Doust

and countersigned by any one of the following for amounts greater than $25,000 (Twenty-Five Thousand Dollars):

- D.R. Tahtinen
- D.D. Greenlee
- L.M. Lovett-Doust
This policy supersedes Board of Control policy 13.6. Banking Relationships dated September 29, 2005.

V-B-4. Gifts

It was moved by R. Gronevelt, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control acknowledges the gifts to Michigan Technological University.

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2007 through March 31, 2008
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>Goal</th>
<th>FY08 YTD Total</th>
<th>% YTD</th>
<th>FY07 YTD Total</th>
<th>FY07 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>27,350,000</td>
<td>3,134,909</td>
<td>11%</td>
<td>3,946,749</td>
<td>4,406,569</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>59,837</td>
<td>145,744</td>
<td>145,744</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,500,000</td>
<td>967,702</td>
<td>65%</td>
<td>1,060,060</td>
<td>1,357,485</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>9,250,000</td>
<td>7,937,398</td>
<td>86%</td>
<td>15,022,390</td>
<td>15,522,390</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,580,000</td>
<td>1,293,481</td>
<td>82%</td>
<td>1,094,176</td>
<td>1,522,293</td>
</tr>
<tr>
<td>Corporations</td>
<td>2,500,000</td>
<td>1,797,484</td>
<td>72%</td>
<td>1,656,808</td>
<td>2,018,081</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>1,300,000</td>
<td>283,202</td>
<td>20%</td>
<td>222,467</td>
<td>443,008</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>1,520,000</td>
<td>131,142</td>
<td>9%</td>
<td>2,066,401</td>
<td>2,497,524</td>
</tr>
<tr>
<td>Grand Total</td>
<td>45,000,000</td>
<td>15,585,157</td>
<td>35%</td>
<td>25,214,795</td>
<td>27,913,089</td>
</tr>
</tbody>
</table>

---

- Except for the Annual Fund, all totals include outright gifts and the full amount of new pledge commitments
- Annual Fund includes cash from prior year pledges in addition to outright current year gifts and new pledge commitments due current year
- An individual's gifts given through another source (i.e. family foundation or closely held business) are credited to the individual
Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2007 through March 31, 2008
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY08 YTD Total</th>
<th>FY07 YTD Total</th>
<th>$ Change from Previous Fiscal Year</th>
<th>% Change from Previous Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash (current year)</td>
<td>6,082,969</td>
<td>7,045,416</td>
<td>-962,448</td>
<td>-13.7%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>59,837</td>
<td>145,744</td>
<td>-85,907</td>
<td>-58.9%</td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td>6,142,806</td>
<td>7,191,160</td>
<td>-1,048,354</td>
<td>-14.6%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>1,147,993</td>
<td>3,696,097</td>
<td>-2,548,104</td>
<td>-68.9%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>393,450</td>
<td>2,484,762</td>
<td>-2,091,313</td>
<td>-84.2%</td>
</tr>
<tr>
<td>Receipts from Previous Year Subtotal</td>
<td>1,541,444</td>
<td>6,180,860</td>
<td>-4,639,417</td>
<td>-75.1%</td>
</tr>
<tr>
<td>Total</td>
<td>7,684,250</td>
<td>13,372,021</td>
<td>-5,687,771</td>
<td>-42.5%</td>
</tr>
</tbody>
</table>

V-B-5. Refinancing of 1998 Bond Issue

Michigan Tech’s 1998 variable rate bonds ($10M outstanding) currently have Ambac as their credit facility. Recently, Ambac has been downgraded and the rate on our variable rate bonds has increased from 3% to 6+%. With the credit future of Ambac in question, we need to find another credit facility for those bonds and reissue them as variable rate, or refinance them into fixed rate bonds. This is an opportune time to reissue/refinance them, since we’re currently going to market with the $6.15M in fixed-rate bonds which were approved at the February Board of Control meeting.

The Board was in agreement that it is an opportune time to refinance the 1998 Bond Issue. Discussion took place as to whether the bonds should be reissued on the same terms under which they were originally issued, which would provide for paying interest only until the years 2017, 2018 and 2019 and then we would have three balloon payments to retire the $10 million debt, or roll that into the already approved 30 years bond issue with a fixed rate. Refinancing the bonds at the interest only option would save the university about $400,000, but would require balloon payments at the end of ten years, as compared to fixed rate with a guaranteed monthly payment over 30 years. It was pointed out that there is flexibility in the fact that if at the end of the 10 years the University is unable to make the balloon payments, the bonds can always be refinanced.

The Board agreed that Mr. Greenlee should work with bond counsel on folding the 1998 Bond Issue, with a interest only payment and three balloon payments in the last three years into the current $6.15 million bond which was approved at the February Board meeting. Mr. Greenlee will work with bond counsel and legal counsel on this matter.
V-C-1. Michigan Tech Fund Report

Mr. George Butvilas, Chairman of the Michigan Tech Fund Board of Directors, presented the Board with the following report.
Campaign Total To Date

- FY 08 gifts: $20.51 million
- FY 07 gifts: 29.83
- FY 08 corporate research: 4.93
- FY 07 corporate research: 6.21
- Selected FY 06 gifts: + 12.29
- Discounts of planned gifts: - 4.25

Total: $69.52 million

February 28 Board of Directors Meeting

1. Held conference call with Hammond Associates on market conditions
2. Reviewed campaign progress and involvement of individual trustees
   A. Hosting events
   B. Identifying prospects (individuals & corporations)
   C. "Opening doors"
   D. One-one – one prospect cultivation
3. Approved increase of endowment payout from 3.5% to 4%, effective July 1, 2008
Nominating Committee Meeting

A. Currently 19 members, but 8 due to cycle off this fall
B. Will offer option of additional term to the 8
C. Approved a list of 6 prospective nominees to sound out regarding interest
D. Likely additions this fall = 3-4

V-C-2. Appointment of Nominating Committee

It was moved by R. Kershner, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control appoints a Nominating Committee comprised of R. Reck (Chair), D. Brule, S. Hicks and R. Kershner to begin the process to elect officers for the 2008-2009 fiscal year.

V-C-3. Resignations, Retirements, and Off-Payroll

It was moved by R. Gronewelt, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control accepts the resignations and confirms the off payroll determinations.

<table>
<thead>
<tr>
<th>Employees</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leinonen, Doreen</td>
<td>Campus Dining Services</td>
<td>Food Service Helper</td>
<td>08/14/06</td>
<td>04/04/08</td>
</tr>
<tr>
<td>Minetti, Linda</td>
<td>JR Van Pelt Library</td>
<td>Office Assistant 4</td>
<td>02/27/06</td>
<td>04/05/08</td>
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<tr>
<td>Petaja, B K</td>
<td>Financial Aid</td>
<td>Secretary 4</td>
<td>05/12/07</td>
<td>03/31/08</td>
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<tr>
<td>Curtin, Patrick</td>
<td>Campus Dining Services</td>
<td>Food Service Helper</td>
<td>02/19/07</td>
<td>03/03/08</td>
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<tr>
<td>Dyl, Stanley</td>
<td>AE Seaman Mrnl Museum</td>
<td>Director Advancement &amp; Plan</td>
<td>09/01/07</td>
<td>02/29/08</td>
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<tr>
<td>Gilles, Michael</td>
<td>Research &amp; Spon Prog</td>
<td>Asst Dir Research &amp; Spon Prog</td>
<td>03/20/04</td>
<td>02/02/08</td>
</tr>
<tr>
<td>Heil, Lynn</td>
<td>Educational Opportunity</td>
<td>Coordinator Youth Programs</td>
<td>01/08/07</td>
<td>03/28/08</td>
</tr>
</tbody>
</table>
VI. REPORTS

A. Student Affairs Report – Dr. Les Cook, Vice President for Student Affairs
   (A copy of Dr. Cook’s report was included in the agenda book.)

B. University Senate Report – Dr. Martha Sloan, President
   (A copy of Dr. Sloan’s report was included in the agenda book.)

C. Undergraduate Student Government Report – Mr. Shahrzad Rizvi, President
   (A copy of Mr. Rizvi’s report was included in the agenda book.)

D. Graduate Student Council – Ms. Emily McCarthy, President
   (A copy of Ms. McCarthy’s report was included in the agenda book.)

VII. INFORMATIONAL ITEMS

A. Analysis of Investments
B. Auxiliary Enterprises Operations
C. Contracts and Grants
D. Advancement Report
E. “In The News”
F. Disposal of Surplus Property

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

There were no public comments at this time.

X. ADJOURNMENT

It was moved by R. Kershner, supported by S. Hicks, and passed by voice vote without dissent, that the meeting be adjourned.

Secretary of the Board of Control
Chair, Board of Control