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

Meeting of
December 12, 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 December 12, 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 12th day of December, 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 Vice Chair, M. Richardson, and a quorum was declared present.

The following members of the Board of Control were present:

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

The following members were absent:

   None

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 Butvillas, 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; 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. SPECIAL PRESENTATION

Ms. Phyllis Green, Superintendent of the Isle Royale National Park presented President Glenn Mroz with an artist’s rendering of a wolf to show their appreciation for Michigan Tech’s support of the wolf study which just commemorated its 50th year of existence. Professors Rolf Peterson and John Vucetich of the School of Forest Resources and Environmental Science were also recognized for their outstanding achievements in their research of wolves.

II. APPROVAL OF AGENDA

It was moved by K. Clark, supported by R. Reck, and passed by voice vote without dissent, that the agenda of the formal session of December 12, 2008, as distributed to the Board, be approved.

III. APPROVAL OF MINUTES

It was moved by R. Reck, supported by K. Clark, and passed by voice vote without dissent, that the minutes of the formal session of October 2, 2008 be approved.

IV. OPENING REMARKS

Chair’s Comments

As you know, shortly after our last Board meeting our esteemed Board Chair, Russ Groneveldt underwent neck surgery. Russ is recovering quite well, but unfortunately he is not able to travel to Houghton for the meeting. Therefore, he asked me if I would Chair the meeting in his place. We are most fortunate, however, to have Russ with us today by phone, and we would like to welcome Russ and wish him all the best for a speedy recovery. In addition, we also have Dave Brule, Steve Hicks, and Ruth Reck participating by phone as well.

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 welcome George Butvilas, Chairman of the Michigan Tech Fund, and thank him for taking the time to be here with us today.

Before going any further with my opening remarks, I want to take this opportunity to present a resolution on behalf of the Board to our two outgoing Board members, Dave Brule and Rodger Kershner.

It has been a tremendous pleasure to work with both of you as colleagues and on behalf of the Board, we would like to present each of you with a plaque containing the following resolution:
David J. Brule, Sr.

The Board of Control of Michigan Technological University at its meeting on the twelfth day of the month of December in the Two Thousand and Eight year declared that:

WHEREAS David J. Brule, Sr., a longtime citizen of the State of Michigan, has honorably and dutifully served his State and its constituents; and

WHEREAS such duty was with eminence and honor, and such membership included serving as the Chair of this distinguished body and Chair of the Finance and Audit Committee; and

WHEREAS his service to the Michigan Technological University Board of Control was for a period of eight productive years; and

WHEREAS his contributions to Michigan Technological University and higher education in general have been of the highest order and in the best interest of all: Therefore be it

RESOLVED, that the Michigan Technological University Board of Control extends appreciation and congratulations to this distinguished citizen and former member of this body.

Rodger A. Kershner

The Board of Control of Michigan Technological University at its meeting on the twelfth day of the month of December in the Two Thousand and Eight year declared that:

WHEREAS Rodger A. Kershner, a longtime citizen of the State of Michigan, has honorably and dutifully served his State and its constituents; and

WHEREAS such duty was with eminence and honor, and such membership included serving as the Chair of this distinguished body and Chair of the Finance and Audit Committee; and

WHEREAS his service to the Michigan Technological University Board of Control was for a period of eight productive years; and

WHEREAS his contributions to Michigan Technological University and higher education in general have been of the highest order and in the best interest of all: Therefore be it

RESOLVED, that the Michigan Technological University Board of Control extends appreciation and congratulations to this distinguished citizen and former member of this body.

Once again, I would like to thank you both for your dedication and outstanding service to Michigan Tech.
I would also like to highlight a few of the more recent awards that Michigan Tech has received.

Last year Michigan Tech piloted a program in three Michigan high schools to give students a tantalizing taste of what real life is like working in science, technology, engineering or mathematics. It was such a resounding success that the National Science Foundation has climbed aboard, awarding Michigan Tech $1.6 million to expand its High School Enterprise Program to eight high schools in cities and towns all over the state.

The program's goal is to motivate high school students to pursue education and careers in the STEM fields, to help provide the skilled, technologically savvy workforce that Michigan, the nation and the world need.

The competitive grants include a $1.5 million, three-year Innovative Technology Experiences for Students and Teachers award and a $100,000 one-year award from a program called Innovations in Engineering Education, Curriculum and Infrastructure. Michigan Tech is one of 25 award recipients selected from 1,000 proposals nationwide. Doug Oppliger, who teaches engineering fundamentals and headed the University’s pilot High School Enterprise Program leads the team, which also consists of Susan Amato-Henderson, as associate professor of cognitive and learning sciences; John Jaszczak, professor of physics; Robert Mark, professor of practice in marketing and entrepreneurship; Mary Raber, coordinator of the Undergraduate Enterprise Program; and Valorie Troesch, professor of practice in the Institute for Interdisciplinary Studies.

The Michigan Public Service Commission has awarded a team of Michigan Tech researchers $1.5 million to develop technologies for flex-fuel hybrid vehicles. The grant builds on over 1 million dollars in support from General Motors, Sensors Inc. of Saline, Argonne National Laboratory's Transportation Technology R&D Center, and Michigan Tech. As part of the project, the team aims to design and build an efficient, four-cylinder, hybrid engine with a variable compression ratio that can run on flex-fuel and meet the US EPA's tough emissions standards, something that no hybrid has ever done. They will also develop a computer model that will allow engineers to simulate the factors involved in designing efficient, clean-running, flex-fuel hybrid engines.

The team is led by Jeff Naber, an associate professor of mechanical engineering-engineering mechanics and director of Michigan Tech’s Advanced Power Systems Research Center. Co-investigators on the project are Jay Meldrum, director of the Keweenaw Research Center; Donna Michalek and John Beard, associate professors of mechanical engineering-engineering mechanics; Seong-Young Lee, Scott Miers and Abhijit Mukherjee, assistant professors of mechanical engineering-engineering mechanics; and Jeremy Worm, staff engineer of the Advanced Power Systems Research Center.

I am also very pleased to report that three Michigan Tech graduate students have received the University's 2008-09 DeVlieg Fellowships. In the MS category, Anna Colvin from Geological and Mining Engineering and Sciences has received $1,500, and in the PhD category, Joshua Carlson of Chemical Engineering and Cory McDonald from Environmental Engineering each received $3,000.
I would also like to commend faculty members Craig Friedrich of Mechanical Engineering and Paul Bergstrom of Electrical and Computer Engineering who led a Michigan Tech team of selected graduate students to the 26th Army Research Conference last week. The team was also invited by the Army to display their posters at the Army Unified Technology Exhibit as well. This is the second Army Research Conference in a row that Michigan Tech has presented more papers and posters than any other university. Among the eight Michigan Tech papers presented at this prestigious conference, one of them co-authored by Ph.D. candidate Mark Griep received the best paper award in the nano technology category. In addition, this paper was also awarded the Bronze Medal for the second best paper of the entire conference. This is particularly impressive given the reality that there were over 845 paper submissions from 27 countries. Congratulations to Mark and his Ph.D. advisor Dr. Craig Friedrich. I would also like to mention that Shashi Karna, Senior Scientist for the Army, has been a key mentor to Mark, and serves on Michigan Tech’s Mechanical Engineering-Engineering Mechanics External Advisory Board.

Before turning it over to President Mroz, who I expect will comment on our challenging economic times, I would like to thank our fellow Board member Ruth Reck for her generous contribution to The University Women’s Connection, enabling the group to assemble gift bags for first-year female students. The group met on Wednesday evening and it was very well attended and a resounding success.

President’s Comments

President Mroz began his remarks by requesting a moment for silence for two of our faculty members Dr. William Gregg and Dr. David Karnosky, and for Tanya Kleen who was a member of the Presidential Council of Alumnae and an Alumni Board Member, who lost their lives.

Change happens so incrementally at times that it is hardly noticeable, so there are times when it seems natural to take stock of change and this is one of those times.

It is Commencement weekend, we are nearing the end of the calendar year, there is considerable uncertainty in our world, and we have a changing of the guard with two Board of Control members who will be passing the torch to their colleagues remaining on the Board, as well as two new members who will be appointed by the Governor in the coming months.

While change can be catalyzed by a single event, we have had the luxury, for close to five years, of being able to lead changes in a very deliberate and measured manner. This Board has guided a lot of change that has made Michigan Tech agile to respond, yet robust to endure challenges.

It is an understatement to say that these are challenging times for higher education across the United States. The effects of the recent economic downturn are widespread.

- Appropriations for higher education in many states are being slashed as ours were at the turn of the century
- Endowment portfolios are down over 25% on average in just a few months.
- Availability of private student loans has dried up.
- The California state higher education system is lobbying for a federal bailout of billions of dollars.
- Staffing cuts and hiring freezes are a daily occurrence and have the potential to accelerate.

It’s hard to know how much more difficult the situation might become. There is an air of deep concern among many of our counterpart institutions. In Michigan, the fate of the bridge loan to the automakers collapsed in partisan politics in the legislature putting millions of people at risk.

At Michigan Tech, though we carry a sense of deep concern yet cautious optimism, public higher education has come under pressure regularly in our nation’s history, and certainly we are not immune to it this time. However, because of the change that has taken over the past several years, we believe Michigan Tech is in a position of preparedness and even perhaps strength relative to other institutions.

Here are just a few examples:
- In 2004 and 2005 we conducted some significant reorganization at both the University and the Michigan Tech emerging with greater focus on a very concise strategic plan.
- In the process we built the strongest cash position in seven years.
- Maintained an Aaa bond rating.
- Launched the AQIP quality management approach to accreditation and have begun LEAN business process management initiatives as a framework for getting the right things done with fewer mistakes and higher quality to serve our students, the State and each other more effectively, and to enrich our working lives.
- Worked to get the right people in the right seats on the bus in a number of subsequent reorganizations on campus.
- While competition among universities helps us strive to improve, we have stepped up our efforts to work with other universities in Michigan for Michigan.

As a result, Michigan Tech has become a stronger institution:
- We have the highest enrollment since 1983 with 7017 students.
- Our graduate enrollment is at the highest level ever.
- Our research funding doubled in the last five years to $60 million.
- We have attained the top tier among public universities in U.S. News and World Report.
- Top 20 nationwide in students graduating with the least debt.
- We have made strides in growing the faculty in the critical area of sustainability and this year we will extend that growth in computational discovery and innovation.
- We have worked to make Michigan Tech a good investment and the response has been strong philanthropic support: 3 new endowed chairs and 4 professorships; $10 million contribution from David House, and we are approaching $90 million in gifts in private support for our campaign.
We acquired Michigan Tech Research Institute adding a regional presence in the most populous and most industrial part of our State, and have participated in growing our SmartZone with Fortune 500 companies.

- Most recently part of three out of six of the Michigan’s Centers of Energy Excellence teaming with Michigan State on one of those, and government and business on all of them.
- Notably, we were invited into the IBM Executive Partnership Program.

This is just the short list of what is achieved with the effort of the faculty, staff and students, and the guidance of the Board.

The key to what we all have worked to accomplish, is also the key to Michigan Tech’s future growth and prosperity. The strategic plan has guided our decisions and investments every day. The plan has three simple goals:

- Attract and retain the finest students, faculty and staff.
- Offer distinctive educational programs of the highest quality.
- Pursue innovative research, development and scholarly activity that serves people.

This is what we do, and it is what we must keep doing, evening in the fact of the current economic challenges.

Our vision will remain the same – for Michigan Tech to become a premier technological university of international stature, addressing the needs of our rapidly changing world.

I want to thank all of you, but especially Rodger and Dave for being an integral part of this University and guiding Michigan Tech in a time of change.

**V. ACTION/DISCUSSION ITEMS**

**V-A-1. Academic Affairs Committee Report**

Dr. Clark provided the Board with the following report.

At yesterday’s Academic Affairs meeting, the focus was on processes that support the strategic plan; these range from accountability through the Dashboard and Voluntary System of Accountability or VSA, to the Academic Quality Improvement Program or AQIP, which is the process we use to earn and sustain our accreditation.

We began with a virtual tour of the university’s space database, ASPIRE, one of the products of the AQIP projects that have completed over the past year. (ASPIRE apparently stands for “Accounting for Space, People, Indexes, Research and Equipment”)

Walter Milligan showed us how departments could be surveyed in terms of how space was being used, what facilities or equipment were to be found in each research lab, and which research accounts or “indexes” were associated with each room. It is clear that this database will be a rich tool for future planning and space allocation.
In addition to seeing the database produced as part of the Comprehensive University Space Inventory AQIP, we also heard some details about the other AQIP Action Projects. The provost reviewed the recommendations of the “Diversity of the Faculty” project, led by Bill Bulleit, the Learning Space Enhancement Project, led by Chelley Vician, and the Carbon Neutral project, led by Peg Gale and John Sutherland; the last of these is in final review. All of the AQIP projects, on completion, have held a “Tech-Talks-AQIP panel, MC’d by Donna Michalek, where the recommendations were presented to the university community, and the Administrative response was given by the provost. It was good to see so many recommendations have already been implemented.

The second Strategic Faculty Hiring Initiative in “Computational Discovery and Innovation” is well under way; the provost reported that the search committee, co-chaired by Steve Seidel and Leonard Bohmann is working very effectively and excellent applications are rolling in. The “best before” date for applications is January 30th, but applications are being screened as they arrive and reviews should be beginning shortly. To this point just over 40 complete applications have been logged for the ten positions, and faculty are encouraged to urge excellent colleagues elsewhere to apply to the positions which include both core computational sciences and engineering, and areas of application.

The provost provided an update on the NSF-ADVANCE project, which in large part provides funding for the recent initiatives being undertaken in terms of faculty recruitment and retention: better advertising, diversifying the faculty, improving hiring processes, mentoring, and interviewing. The department of Mechanical Engineering-Engineering Mechanics is participating in Michigan’s STRIDE program, and is developing formal mentoring, and other initiatives to attract potential candidates to Michigan Tech.

Finally we heard about excellent progress under the leadership of Dr Christa Walck in developing the Learning Library at Tech. Through some recent reorganization of library activities Christa has been able to establish a position for a Technology Librarian, which is essential to support scholarship in the Digital age. In January the Library will formally celebrate the fact that it now hosts the Center for Teaching Learning and Faculty Development, and the Flexible Learning Center, which merges summer and online learning. It will also provide meeting space for some student groups including the Honors Institute and the Pavlis Institute. Recently, the library has hosted a number of cultural events, including the recent unveiling of the “Miner’s Ascent” a beautiful felted image of our mining heritage by local artist and Finlandia professor Phyllis Fredendall. Dr Walck has also invited the Board, along with others, to contribute suggestions on “books we have enjoyed” for the Library Information Wall and website. We are excited to see the library become such a “happening place”!


Dr. Lovett-Doust provided the Board with the following report.
PROVOST'S REPORT
BOARD OF CONTROL
December 2008

Lesley Lovett-Doust
Provost and Vice President for Academic Affairs

Strategic Plan

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

"Make it so!" Strategic Actions: accountability and accreditation

- Dashboard (Rich Elenich, Donna Michael)
- VSA site (Rich Elenich, Donna Michael)
- AQIP action projects (4 complete, new ones being proposed)
- AQIP Systems Portfolio due June 2009 (internal discussion Jan-May) (Donna Michael, María Goodrich)
### Progress on AQIP Action Projects

<table>
<thead>
<tr>
<th>Title</th>
<th>Title AQIP</th>
<th>Kickoff Date</th>
<th>Completion Date</th>
<th>Status</th>
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<tr>
<td>Improving the Diversity of the Faculty</td>
<td>Improving the Diversity of the Faculty</td>
<td>June 1, 2008</td>
<td>Oct 28, 2008</td>
<td>Final Report and Executive response</td>
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<tr>
<td>Learning Space Enhancement</td>
<td>Classroom and Facilities Upgrade Plan</td>
<td>June 1, 2006</td>
<td>Oct 22, 2006</td>
<td>Final Report and Executive response</td>
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<td>Comprehensive University Space Inventory Process</td>
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<td>June 1, 2006</td>
<td>Oct 14, 2006</td>
<td>Final Report and Executive response</td>
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<tr>
<td>Carbon Neutral</td>
<td>Carbon Neutral</td>
<td>June 1, 2007</td>
<td>TGD</td>
<td>Report involved, in review</td>
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</tbody>
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### Diversity of the Faculty: recommendations and response

- Improve Advertising process
- Guidelines for Searches
- Training for deans, chairs and search committees
- Post-interview surveys of candidates
- Development of formal mentoring for untenured faculty
- Track improvements
- Provide Dual Career Assistance

*initiatives partially supported by NSF-ADVANCE Project*  
*Michigan Tech is one of 40 ADVANCE universities, nationwide*

### Learning Space Enhancement

- Victorian classroom
- I-tunes classroom
Learning Space Enhancement: recommendations and response

- Surveyed Best Practices and state of current classrooms
- Proposed annual budget allocation directed at classroom technology upgrades (100K/yr agreed by Budget Team)
- Physical Plant will maintain physical attributes of rooms
- Direct attention to all university classrooms
- Extend to teaching laboratories and workshop spaces

AQIP: Space Inventory

Space, the final frontier

Comprehensive University Space Inventory Process

- Merged 14 different databases on space and facilities
- System is named ASPIRE (Accounting for Space, People, Indexes, Research and Equipment)
- http://www.admin.mtu.edu/space/
- Allows:
  - more deliberate, appropriate allocation of space
  - matching of occupant and attributes
  - efficient reallocation of open space
Comprehensive University Space Inventory Product: ASPIRE

Carbon Neutral: Recommendations and response

- Developed model for Michigan Tech based on Clean Air-Cool Planet model.
- Developed an administrative model for carbon accountability.
- Assigned responsibilities to members of the Executive Team and Physical Plant areas.
- Appointed Sustainability Enterprise Director (Chris Wojick).
- Appointed Campus Sustainability Coordinator (David Talvaski).

Clean Air-Cool Planet Model
AQIP “Categories” for Systems Portfolio

- Helping Students Learn
- Accomplishing Other Distinctive Objectives
- Understanding Students' and Other Stakeholders' Needs
- Valuing People
- Leading and Communicating
- Supporting Institutional Operations
- Measuring Effectiveness
- Planning Continuous Improvement
- Building Collaborative Relationships

Recent Strategic Actions: better processes, safety

- Travel process (Dan Greenlee, Janet Hayden)
- Hiring Procedures (ADVANCE team, Anita Quinn, Sherry Kauppi)
- OFCCP Review (Department of Labor Office of Federal Contract Compliance Program Audit. "No apparent deficiencies or violations" - fantastic, flying colors)
  Aug 2007-December 2008 (Sherry Kauppi, Valerie Holzberger, Riddle Justus), and all the cooperative faculty and staff across the university who helped
- Academic Advertising (ADVANCE team, Anita Quinn, Sherry Kauppi)
- Safety and MIOSHA response (Dale Talmian, Janet Hayden, Al Nawi, Jon Stone)

Recent Strategic Actions: retention of excellent faculty

- Partner hires, Dual Career Assistance Program
- Better hiring practices and procedures
- Strategic Faculty Hiring process
- Mentoring programs for assistant and associate professors, Post-Docs, graduate students, MEEM developing models for Michigan Tech, WISE peer support, CTLFD
- PRESSING NEEDS: effective immigration support; funds to subsidize more partner starting positions (in discussion)
Recent Strategic Actions

*use spaces to enhance learning and research*

- From Library to "Learning Library" (Chris Walk, Bill Kennedy, Parry Line)
- Planning research space for CLS
- Annex upgrade to accommodate graduate research in Social Sciences
- Physics Labs upgrade
- Great Lakes Research Lab

Recent Strategic Actions:

*improve collaboration and communication*

- Build inter-college/school collaborations
- Included all Deans on Space Committee, Budget transparency sessions
- Tech-Talks-Research (Donna Michalek)
- Tech-Talks-AQIP (Donna Michalek)
- Regular Deans & Chairs workshops
- Deans & Chairs "Tool Kit" (Becky Christianson)
- Academic Forum meetings

Final Comments

- We are re-introducing a Vision Statement to the Strategic Plan, that emphasizes ethical conduct
- General Education Committee is examining Learning Outcomes for all Tech students who will have:
  - Well-developed cultural and global awareness
  - high computer competency
  - analytical and reasoning skills
  - ability to innovate in a framework of sustainability
  - Well-developed ethical standards
V-A-3. 16.4. Academic Tenure and Promotion

It was moved by K. Clark, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control amends policy 16.4. Academic Tenure and Promotion as presented herein.

The amended policy shall read as follows:

16.4. Academic Tenure and Promotion

Academic Tenure

Statement of Intent

It is the intention of the Board of Control to adhere to these policies and procedures insofar as they are not inconsistent with law. Under its legal obligations as the responsible governing board of the University, the Board reserves the right to suspend these policies or implementing procedures or parts thereof, to request the faculty to review or reconsider them, or to deviate from them if conditions beyond its control, such as abrupt declines in enrollment, serious loss of income, or conditions that result in curtailment or abandonment of programs or activities, make it necessary to do so.

Preamble

Tenure is signified by an appointment for an indefinite continuing period subject to the rules set forth in this tenure policy. Tenure entails explicit responsibilities for the administrative officers and for the academic faculty. The administrative officers assure security of appointment to tenured faculty members; tenured faculty members assure competent service, loyalty to and cooperation with the University. Tenure shall not protect a person from loss of faculty appointment for causes such as incompetence, negligence, serious misuse of academic prerogatives, persistent and willful failure to follow established institutional
procedures, gross personal misconduct or conscious participation in conspiracy against the Government.

Introduction

For the purposes of the Michigan Technological University Policy on Academic Tenure and Promotion, the academic faculty is comprised of those individuals holding one of the ranks of assistant professor, associate professor or professor; and who also hold appointments in the University units having a reporting relationship to the Provost (including the Provost); and also whose appointments in the University are three quarters time or more of full-time provided the applicable letter of appointment specifies the position as "tenure track."

The ranks of professor, associate professor and assistant professor are the regular tenure-accumulating faculty ranks; service in these ranks is counted towards the acquisition of tenure, except as specifically noted herein.

The ranks of lecturer and instructor, as well as all positions denominated as adjunct, visiting, research, or part-time, are non-tenured positions; such non-tenured appointments are normally considered annual appointments and viewed as exceptional, being made in accordance with established procedures prepared by the faculty of the school or college concerned, the special condition of which must be explicitly stated in advance of each appointment. Neither time of service in any of these ranks, nor time of service in any rank at another institution, counts toward the acquisition of tenure at Michigan Technological University.

Unless extended according to the provisions stated in this policy, the tenure probationary period for faculty initially appointed at the rank of assistant professor is six years; for faculty initially appointed at the rank of associate professor it is four years; and for faculty initially appointed at the rank of professor it is two years. Unless notice that tenure will not be granted is given prior May 31, of the final year of the tenure probationary period, tenure at Michigan Technological University is acquired automatically when full time paid regular faculty service at one of these ranks extends beyond the tenure probationary period for that rank. When a faculty member is notified, prior to May 31, of the final year of the tenure probationary period, that tenure will not be granted, the faculty member shall receive a one-year terminal appointment.

For the purposes of Tenure, Promotion, and Reappointment, periods of continuous appointment as a tenure-track faculty member are included in the total period of service for the tenure probationary period. This will generally include unpaid periods such as summer semester and certain leaves of absence within otherwise continuous employment and service. The tenure probationary period for faculty whose initial appointment commences on or after November 1 is considered to have begun service with the start of the subsequent academic year, unless it is specified otherwise in the applicable letter of appointment. A tenure-track faculty member joining the University prior to November 1 is deemed to have begun service at the beginning of the same academic year. In no case will the probationary period start later than the beginning of the subsequent academic year.
Exceptional circumstances may sometimes effect a prolonged disruption of professional responsibilities during the tenure probationary period, requiring extensive sick leave, unpaid leave, or a substantial formal reduction of professional responsibilities. A faculty member encountering such circumstances may make written request to the Provost for a one year extension of the tenure probationary period. This written request should be made during or immediately following the period of exceptional circumstances, and in no case after November 15 of the final year of the tenure probationary period. It should be accompanied by recommendations from the appropriate department chair and the dean of the college, or from the dean of the school. The request should clearly demonstrate that both of the following conditions are satisfied:

1. The exceptional circumstances requiring the extension were such that normal conduct of professional responsibilities could not reasonably be expected.

2. Exclusive of the period of exceptional circumstances, the faculty member had made good progress toward achieving tenure.

Under this policy, an individual's tenure probationary period at Michigan Technological University may be extended by one year, or in the case of requests based on the birth or legal adoption of a child, not more than two years, total, for each child. Approval for such extensions will be at the sole discretion of the Provost.

These standard tenure policies are designed to allow untenured faculty sufficient time to develop eligibility for tenure, but granting of tenure after shorter periods of service at this University is not precluded.

Tenure Appointments

Assistant Professor

The initial appointment to the rank of assistant professor shall be for a term of two years. Thereafter, term appointments shall be for not more than two years each. If reappointed after six years of service, an assistant professor shall have tenure unless specifically notified by the department chair (or dean where there is no department chair) prior to May 31 at the end of the sixth year that the seventh year is to be the terminal year. Granting of tenure to a faculty member with the rank of Assistant Professor level carries with it promotion to the rank of Associate Professor.

Associate Professor

An assistant professor at Michigan Technological University who is promoted to the rank of associate professor may be granted tenure at the time of promotion. If reappointed after six years of service at this University an associate professor shall have tenure unless specifically notified by the department chair (or dean where there is no department chair) prior to May 31 at the end of the sixth year that the seventh year is to be the terminal year.

The initial appointment to the rank of associate professor for a person who has not served previously at Michigan Technological University shall be for two years. Thereafter, term
appointments shall be for not more than two years each. If reappointed after four years of service, persons initially appointed as associate professors shall have tenure unless specifically notified by the department chair (or dean where there is no department chair) prior to May 31 at the end of the fourth year that the fifth year is to be the terminal year.

Professor

An associate professor at Michigan Technological University who is promoted to the rank of professor shall have tenure from the date of that promotion. The initial appointment to the rank of professor of a person who has not served previously at Michigan Technological University shall be for two years. Upon reappointment, persons holding the rank of professor shall have tenure unless specifically notified by the department chair (or dean where there is no department chair) prior to May 31 at the end of the second year that the third year shall be the terminal year. Granting of tenure by the Board of Control at the time of initial appointment is not precluded.

Administrative Officers

Appointments to administrative positions do not carry tenure and administrative officers continue in their posts as determined by the President and the Board of Control. Those administrative officers holding an academic rank are subject to the provisions applicable to that rank only insofar as their non-administrative faculty status is concerned. Their appointment to academic rank and their faculty tenure are subject to the same rules as those for all other faculty members.

Academic Promotion

Academic promotion refers to an elevation in academic rank, either from Assistant Professor to Associate Professor, or from Associate Professor to Professor. Academic promotion may be conferred only by the Board of Control. Academic promotion may or may not be simultaneous with the granting of tenure.

It is the promotion policy of Michigan Technological University to maintain uniformity in promotion criteria and consistency in their application to all members of the instructional faculty. However, differences in needs and objectives of the various departments/schools may necessitate variations in promotion criteria among the instructional units. Promotion of faculty will be based on individual merit.

The procedures for Academic Promotion are defined in the Tenure, Promotion, and Reappointment Procedures.

Procedures for Tenure, Promotion, and Reappointment Recommendations

The procedures for implementation of this Tenure and Promotion Policy are the Tenure, Promotion, and Reappointment Procedures. No other procedures shall exist to implement this policy. Only the Board of Control has the authority to grant tenure at Michigan Technological University.
Right to Appeal

A faculty member may appeal negative decisions regarding tenure, promotion, and reappointment. The only grounds for such appeals are the failure of a recommending party or parties to follow the Tenure and Promotion Policy, the Faculty Staffing Policy and/or the Tenure, Promotion, and Reappointment Procedures. Procedures for filing an appeal are defined in the Tenure, Promotion, and Reappointment Procedures. Appeals must be filed with the Committee on Academic Tenure, Promotion, and Reappointment within 30 calendar days after notification by the Provost of a negative recommendation to the President. No other route of appeal is permitted.

Dismissal for Cause

Any faculty member may be dismissed at any time for cause, as stated in the Preamble. Either the President or the faculty member concerned has the option of submitting a written request to the Committee on Academic Tenure, Promotion, and Reappointment to conduct a hearing of the case and make suitable recommendations.

Dismissal for Reasons other than Cause

Dismissal or other removal of tenured faculty for reasons other than cause shall be in accord with Board of Control Policy 13.24.

Committee on Academic Tenure, Promotion, and Reappointment

There shall be a standing joint committee of the academic faculty and administration, known as the Committee on Academic Tenure, Promotion, and Reappointment. This Committee functions independent of the University Senate and the administration of the University. Appeals of negative recommendations on tenure, promotion, or reappointment of tenure-track faculty, and negative recommendations on promotion of tenured faculty, are under the jurisdiction of the Committee. The composition and responsibilities of the Committee are defined in the Tenure, Promotion, and Reappointment Procedures.

Interpretation

In case of any question in the interpretation of this tenure and promotion policy or in the solution of any tenure problem arising from a situation not specifically covered herein or in the Tenure, Promotion, and Reappointment Procedures, the matter shall be referred to the Committee on Academic Tenure, Promotion, and Reappointment. This Committee, after a thorough study, shall transmit its recommendation to the President of the University through the Provost. In every case, final decision rests with the Board of Control.

Amendments

Amendments to the Tenure and Promotion Policy may be initiated by any member of the faculty, including administrators holding faculty appointments. All proposed amendments shall be submitted in writing to the President of the University Senate. The proposed amendment(s) will be forwarded to the Academic Policy Committee of the University Senate.
for review and/or revision. The Academic Policy Committee will provide a copy of the proposed amendments to the Committee on Academic Tenure, Promotion, and Reappointment. The Academic Policy Committee will submit its recommendations to the University Senate.

Revisions to the Tenure, Promotion, and Reappointment Policy must be in the form of a Senate proposal. Adoption of any revision shall require approval by the University Senate, approval by a majority of the tenured and tenure-track faculty voting in a university-wide referendum, such vote to be conducted by the University Senate, followed by the approval of the Provost and President. The President will then forward the recommendation to the Board of Control for final approval.

This policy supersedes Board of Control policy 16.4. Academic Tenure and Promotion dated May 7, 2004.

V-A-4. Emeritus Rank

It was moved by D. Brule, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves the following emeritus appointment:

1.) Dr. Bruce Barna, Professor Emeritus, Department of Chemical Engineering

V-A-5. Degrees in Course

It was moved by K. Clark, supported by D. Brule, 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: 200812

Associate in Applied Science in Engineering Technology
Brian Vernon Miljevich

Associate in Applied Science in Electrical Engineering Technology
Christopher Michael Wells - Cum Laude

Associate in Humanities
Courtney Amanda Hakala - Magna Cum Laude

Bachelor of Arts in Liberal Arts - History
Matthew James Senkow

Bachelor of Science in Business Administration
William H Clark
Robert Michael Fenby
Jordan Foote
Danielle R Griffes - Cum Laude
Jenna Lynn Jones
Oluwole Olajide Jowojori
Ousseinou Kaba
Kyllie Jeanne Kamppinen
Michael A Kelley
Eric John Larson
Susan Faye Mattila - Magna Cum Laude
Joel Patrick Pergolski
Drew David Schaft
Elise Julienne Schwartz - Cum Laude
Ryder Macade Step

Bachelor of Science in Biomedical Engineering
  Vincent I Iduma
  Justin Brett Oberg
  Matthew Michael Pap - Cum Laude

Bachelor of Science in Engineering
  Joshua J Gauthier

Bachelor of Science in Civil Engineering
  Joseph Philip Bentschneider
  Duane C Campbell
  Chad Arthur Carlson
  Aaron James Loosemore
  Morgan Marie Petersen
  Daniel Glen Rowe
  Kimberly Sue Wolosiewicz

Bachelor of Science in Chemical Engineering
  Chee Ming Lai
  Mitchell Lewis Lerche - Magna Cum Laude
  Joyanne Ludington
  Charles Christopher Stutz - Summa Cum Laude
  Min Yun Tan
  Yat Choong Wan

Bachelor of Science in Computer Engineering
  Fedrick Terell Bowe
  Patrick Daniel Murray
  Sawm Peter Vang

Bachelor of Science in Electrical Engineering
  Ryan Joseph Grandy
  Ayoola Olumide Lapite
Bachelor of Science in Environmental Engineering
    Joseph O Birkhold

Bachelor of Science in Mechanical Engineering
    Nicholas E Bartman - Summa Cum Laude
    Cailee Evelyn Casey
    Ryan J Danko
    Eric David Elberling
    Chanty Autim Marie Gober
    Brad A Howard
    Nathan Dale Kroodsma - Magna Cum Laude
    Frank Campbell Murtland
    Brandon Scott Quig
    Molly Alice Rehwaldt - Cum Laude
    Michael Anthony Ryba
    Christopher Lawrence Sherman
    Jacob M Stine
    Joseph John Studinger
    Christopher K Wackerle - Magna Cum Laude

Bachelor of Science in Materials Science and Engineering
    Pei Jia  Koh

Bachelor of Science in Wildlife Ecology and Management
    Megan Anne Petras

Bachelor of Science in Biological Sciences
    Alicia C Creed
    Nicholas William Giles
    Ryan John Greenley - Magna Cum Laude
    Jourdan Marie Whitman

Bachelor of Science in Chemistry
    Melissa Marie Robokoff

Bachelor of Science in Clinical Laboratory Science
    Rocio  Garcia

Bachelor of Science in Computer Science
    Craig William Koenigs
    Daniel Robert Wahlstrom

Bachelor of Science in Exercise Science
    Stephanie Marie Wollar

Bachelor of Science in Mathematics
    Kristopher William Bunker
    Trisha Lin Evans
Matthew A Kassel
Nicholas Mark Smolinske
Lloyd Vidal

Bachelor of Science in Physics
   Michael Christopher Aden

Bachelor of Science in Psychology
   Samuel P Burgess
   Katie Jean Harris

Bachelor of Science in Social Sciences
   Amanda Lynn Burns
   Joyanne Ludington
   Gordon Davis Rutledge

Bachelor of Science in Scientific and Technical Communication
   Ryan C King
   Rachel J May
   Cassandra R Williams

Bachelor of Science in Construction Management
   Benjamin Timothy Whisler

Bachelor of Science in Computer Network and System Administration
   Myles A Dangerfield
   Ryder Macade Step

Bachelor of Science in Electrical Engineering Technology
   Dennis Peter Doherty
   Alexander William Kennedy

Bachelor of Science in Mechanical Engineering Technology
   Antonia M Fowler
   Brian Thomas Pietila
   Jeremy David Spillane

Bachelor of Science in Surveying Engineering
   Michael John Heberlein - Summa Cum Laude
   Michael John Wyatt

Master of Business Administr. in Business Administration
   Michael Louis Carlson
   Michael J Haessler
   Brandon W Krieger
   Michael Christopher Morley
   Jamie Katherine Orlowski
   Shaunna Beth Turner
Master of Engineering in Environmental Engineering
   Tammy Rene Creson

Master of Science in Civil Engineering
   Mark J Anderson
   Bradley Aaron Kallenbach
   Erron James Peuse

Master of Science in Chemical Engineering
   Peter Allen Holman

Master of Science in Electrical Engineering
   Jin He
   Binaya Lal Joshi
   Andrew Phillip Kunze
   Adam Cole Manty

Master of Science in Environmental Engineering
   Ni Nyoman Dhitasari
   Jeffrey Charles Grace
   Linda Diane Kersten
   Adam David Mickel
   Andrea Munoz Hernandez

Master of Science in Geological Engineering
   Jill Nicole Bruning

Master of Science in Geology
   Kelly Suzanne Durst

Master of Science in Mechanical Engineering
   Rohit Narendra Gujarathi
   Joseph Eugene Hernandez
   Anil Kataria
   Abhijit LNU
   Jaclyn Elyse Nesbitt
   Michael David O'Shaughnesssey
   Nitesh Patel
   Anand Shrikant Puranik
   Jeremy Lewis Rickli
   Aniket Dilip Utkur
   Lee Jay Wells

Master of Science in Materials Science and Engineering
   Daniel J Seguin
Master of Science in Forestry
   Chris A Miller

Master of Science in Applied Science Education
   Jennifer Lynn Carlson

Master of Science in Computer Science
   Sandesh Kashinath Kumbhar
   Matthew Thomas Watkins

Master of Science in Physics
   Eric James Domeier
   Pavan Kumar Valavala

Master of Science in Rhetoric and Technical Communication
   Karen Elizabeth Koethe
   Shannon Wong Lerner

Master of Science in Environmental Policy
   Khila Raj Dahal
   Nelson Manda

Doctor of Philosophy in Chemical Engineering
   Rodwick L Barton Carter

Doctor of Philosophy in Electrical Engineering
   Aranggan Venkataratnam

Doctor of Philosophy in Geology
   Maria Alejandra Matiella Novak

Doctor of Philosophy in Materials Science and Engineering
   Nicholas Eric Nanninga

Doctor of Philosophy in Engineering - Environmental Engineering
   Santosh Raj Ghimire

Doctor of Philosophy in Forest Science
   Joseph K Bump
   Bharat Pokharel

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics
   Christopher Michael Anton
   Dean Richard Massey
   Akshay Gangadhar Patil
   Pavan Kumar Valavala
   Xiaoli Ye
V-B-1. Finance and Audit Committee Report

Mr. Hicks provided the Board with the following report.

The meeting began with a discussion of issues facing higher education during the current financial downturn and the impressive level of financial stability that Michigan Tech has achieved, and to prepare for and weather the financial challenges that may occur. We feel that Michigan Tech is well positioned to maintain their momentum of the strategic plan and not compromise the goals which have been set. We’ve seen many positive outcomes of the current administration’s leadership and feel that we will be seeing many more as the strategic plan is consistently followed.

One very good piece of news that was received this week was that the Governor’s Executive Order to reduce certain state appropriations would not include higher education.

The major financial items within the FY09 projection were:
  • Fall’s tuition and fee revenue are projected higher than our originally estimated amount by approximately $1.4 million. This is due to enrollment and credit hour increases.
  • Appropriations will be $1.0 million less than originally budgeted, due to the state’s appropriation passed by the legislature being different than the Governor’s original proposal.
  • Auxiliary revenue is also projected to be ahead of budget.
  • We look forward to ending the fiscal year on a positive note of approximately $2 million in the Current Fund and at an approximate breakeven in the General Fund. These are based on estimated revenues and expenses of approximately $232 million, so there is certainly room for some “play” in the estimates.

We feel that this year is progressing well, not only for our students, but for the institution as well.

V-B-2. Capital Outlay Budget Request

It was moved by S. Hicks, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves 2010 Capital Outlay Budget Request to be submitted to the State of Michigan.
Status of On-Going Projects

Phase I of the Center for Integrated Learning was completed in 2005

FY05 Capital Outlay (General Campus Renovations) was completed in 2007

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000’s)</th>
<th>State Funds (000’s)</th>
<th>Est Const Univ Funds (000’s)</th>
<th>Start/End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STEM Learning Facilities*</td>
<td>120,000</td>
<td>36,000</td>
<td>$50,000</td>
<td>$37,500</td>
<td>$12,500</td>
<td>2010 - 2012</td>
</tr>
<tr>
<td>2</td>
<td>Civil Engineering Ren.</td>
<td>53,000</td>
<td>86,000</td>
<td>$35,000</td>
<td>$25,000</td>
<td>$10,000</td>
<td>2013 - 2014</td>
</tr>
<tr>
<td>3</td>
<td>Manufacturing Center</td>
<td>45,000</td>
<td>20,000</td>
<td>$21,000</td>
<td>$15,000</td>
<td>$6,000</td>
<td>2015 - 2016</td>
</tr>
<tr>
<td>4</td>
<td>School of Business</td>
<td>115,000</td>
<td></td>
<td>$35,000</td>
<td>$25,000</td>
<td>$10,000</td>
<td>2011 - 2013</td>
</tr>
<tr>
<td>6</td>
<td>Elec Eng &amp; School of Technology Exp &amp; Ren</td>
<td>35,000</td>
<td>20,000</td>
<td>$20,000</td>
<td>$15,000</td>
<td>$5,000</td>
<td>2013 - 2014</td>
</tr>
<tr>
<td>7</td>
<td>MUB Expansion</td>
<td>120,000</td>
<td>50,000</td>
<td>$38,500</td>
<td>$5,000</td>
<td>$33,500</td>
<td>2010 - 2011</td>
</tr>
<tr>
<td>8</td>
<td>Mineral Museum</td>
<td></td>
<td>40,000</td>
<td>$12,000</td>
<td>$9,000</td>
<td>$3,000</td>
<td>2008 - 2011</td>
</tr>
<tr>
<td>9</td>
<td>Parking Facility</td>
<td>600 spaces</td>
<td></td>
<td>$14,000</td>
<td>0</td>
<td>$14,000</td>
<td>2009 - 2010</td>
</tr>
</tbody>
</table>

Annual Project Cost ($000’s)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Total Cost (000’s)</th>
<th>State Funds (000’s)</th>
<th>Est Const Univ Funds (000’s)</th>
<th>Start/End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Renewal State Funded Facilities</td>
<td>1,970,000</td>
<td>$1,400</td>
<td>$1,050</td>
<td>$350</td>
</tr>
<tr>
<td>Campus Renewal Self Supported Facilities</td>
<td>1,032,000</td>
<td>$900</td>
<td>0</td>
<td>$900</td>
</tr>
</tbody>
</table>

Projects in Progress

Great Lakes Research Laboratory – In Progress

*Formerly titled - Center for Integrated Learning and Information Technology – Phase II (STEM) Science, Technology, Engineering, Math
Science Technology Engineering Math Learning Facilities
Project Description

The College of Sciences & Arts has proposed completing the Center for Integrated Learning and Information Technology’s second phase at a cost of $50,000,000. The project was phased at the request of the State of Michigan. Phase I was completed in February of 2005. Science Technology Engineering Math (STEM) Learning Facilities proposes the renovation of Fisher Hall’s 36,000 sq. ft., the addition of another 120,000 sq. ft. and bridges connecting the Center to Wadsworth Hall and the Memorial Union Building. The renovated and new space will provide 24 university-wide classrooms, 14 classroom labs, 25 research labs, 120 offices for faculty and staff, 44 graduate student offices. Mathematics, Physics, Library, Computer Sciences, Center for Computation and the Dean of Sciences & Arts would occupy the renovated and expanded facility.

Dillman Hall Expansion & Renovation
Project Description

The Department of Civil and Environmental Engineering has proposed renovating and expanding Dillman Hall at a cost of $35,000,000. The project would include renovation of Dillman Hall’s existing 86,000 sq. ft. and the addition of 53,000 gross sq. ft. It is proposed to add two classrooms, three labs, a learning center, 22 graduate student offices and seven faculty or staff offices. Renovation of Dillman Hall would include HVAC, electrical, mechanical code updates, ADA restrooms, elevator and architectural renewal, windows, walls, flooring, ceilings and lighting.

School of Business & Economics
Project Description

The School of Business & Economics has proposed the Construction of a new facility at a cost of $35,000,000. The facility’s 115,000 gross sq. ft. would provide for growth of the school’s programs. It is proposed to include 20 classrooms, three computer labs and miscellaneous student areas. It would also provide offices for 50 faculty, 10 graduate assistants, as well as, administrative and staff areas.

The new facility would displace parking therefore; there is an allowance in the cost estimate for replacement parking development.

Upon completion of this facility, the School of Business space in the Academic Office Building would become available for other users.

Manufacturing Research Center
Project Description

The department of Mechanical Engineering – Engineering Mechanics (ME-EM) has proposed an addition to the ME-EM Building to house the Manufacturing Research Center. The project cost is estimated at $27,000,000.
The addition is planned to meet the manufacturing center’s present and future needs. The addition would consist of about 45,000 gross sq. ft. which will house state-of-the-art research facilities, conduct externally funded research, and train future generations of engineers focused on sustainable processes in both macro and micro/nano manufacturing. The Center will involve interdisciplinary teams conducting research in green engineering, renewable energy technologies, virtual assembly/disassembly, take back logistics and product value assessment. The Center will conduct research on high volume production of emerging micro/nano technology devices such as molecular diagnostic systems for early disease detection, multifunctional materials that not only protect but also power, sense and adapt to changing environmental conditions, and large-scale cooperative systems to facilitate renewable energy harvesting.

A. MICHIGAN TECHNOLOGICAL UNIVERSITY

5-Year Comprehensive Master Plan

V. IMPLEMENTATION PLAN

FY 2009 Major Capital Outlay Project Request
Science Technology Engineering Math Learning Facilities
$50,000,000

| Is The Project a Renovation or New Construction? | Ren X | New X |
| Is There a Five-Year Capital Outlay Plan Available? | Yes X | No ___ |

(Projects will not be approved without a current Five-Year Plan on file with the State Budget Office.)

| Are Professionally Developed Program Statements and/or Schematic Plans Available Now? | Yes ___ | No X |
| Are Match Resources Currently Available? | Yes ___ | No X |
| Has the University Identified Available Operating Funds? | Yes X | No ___ |

A. Project Description Narrative

The Science Technology Engineering Math (STEM) Learning Facilities will house instructional space that will be expanded, upgraded, and redesigned to support a new infrastructure for acquiring knowledge. It will also include space for the Department of Mathematical Sciences, Department of Physics, and the School of Business and Economics. Integrating instructional and information systems will allow for innovation in the way faculty and students engage in learning and teaching, conduct research, collaborate, organize information, and create knowledge. The Learning Facilities will thereby enhance the academic success of every Michigan Tech student and produce graduates poised to exercise leadership and innovation in industry and research in an economy dominated by managing information and developing information technologies.
The instructional space will incorporate video-conferencing, video-streaming, and other Internet delivery and online-learning technologies. These capabilities will be vital to Michigan Tech’s delivering advanced degrees in science, technology, and engineering education and stimulating K-12 students’ interest in science and technology. Obviously, this facility’s impact will be statewide and beyond.

Fisher Hall, our main classroom and office facility for math and physics, and classroom space for business and many other disciplines, was built in the 1960s, when Michigan Tech was a predominantly undergraduate institution. Fisher Hall will be further upgraded and expanded to meet the needs of a modern undergraduate, graduate, and research institution. The completion of Phase I and FY05 Capital Outlay (General Campus Renovation) in 2005 comprised the Van Pelt and Opie Library and Runki Computer Science Hall, both with some technology-intensive classrooms. This has been a great start and the STEM Learning Facilities will complete this effort.

The proposed project includes new program space, continued renovation of Fisher Hall, site improvements, parking, and utility revisions. It also includes physical connections between the Van Pelt and Opie Library, Fisher Hall, and Wadsworth Hall.

The environment to be provided by the Learning Facilities’ new electronic classrooms, computer laboratories, training rooms, learning centers, experimental computations program, and library will foster collaborative, technology-enhanced, integrated teaching and learning. Classrooms will be flexible and include multimedia technologies. Some will be high-technology classrooms with computer stations and/or wireless laptop connectivity to provide the ideal collaborative environment for interactive question-and-answer-based computer-accessible instruction and learning.

As a core element, the Learning Facilities will integrate emerging information technologies and services into the overall academic life of the University. It will promote the innovative synthesis, creation, application, and diffusion of knowledge. It will further the educational and research missions of the University as well as the economic and cultural goals of the State. The Learning Facilities will also provide departmental and interdisciplinary research spaces for the Department of Computer Science, Department of Mathematics, Department of Physics, and for the Center for Experimental Computation.

We estimate that construction can begin in fiscal year 2009 with completion in 2011. The operating costs are estimated to be $700,000 annually.

**B. Other Alternatives Considered**

Fisher Hall and the Van Pelt and Opie Library were both built in the 1960s, decades before computers and electronic information delivery were introduced into mainstream academic life. New graduate and research programs added faculty, research positions, and required large increases in library holdings. Computerization added entire new academic programs within the Department of Computer Science. All of these have been managed and provided for through reduction of classrooms, elimination of study space, and reuse of library support areas. These are the very spaces that are now needed to support classroom technology and
online learning, while taking advantage of technology capable of creating a balance between electronic information and printed information. We were able to free up additional space in the past by moving the Department of Humanities out of Fisher Hall and moving a number of library holdings to a storage facility on campus. These moves exhausted our opportunities to relocate additional academic programs. We have considered construction of a new remote facility for library documents and reusing the existing library for information management programs, study, and staff needs. The construction cost for such a facility would be similar to construction at the existing site and would bring additional operational and management costs. We can improve utilization of Fisher Hall by moving faculty offices, research, and instructional labs out of spaces designed and originally built as classrooms and modify and update those spaces to meet many of the demands of technology in the classroom. However, this cannot be accomplished without the construction of new space. Constructing an addition to the Library and Fisher Hall and efficiently reusing the existing spaces is clearly the most cost-effective solution to our problem.

C. Programmatic Benefit to State Taxpayers and Specific Clientele or Constituencies

The revised State constitution of 1964 (the same year that Fisher Hall was constructed) established Michigan Tech’s mission, stating that “The institution shall provide the inhabitants of this state with the means of acquiring a thorough knowledge of the mineral industry in its various phases, and the application of science to industry, as exemplified by the various engineering courses offered at technological institutions, and shall seek to promote the welfare of the industries of the state.”

Phase II will provide innovative links between instruction and research, and between instruction and development of information competencies, thereby improving student success especially in the crucial first two years when students are acquiring the basics in science, mathematics, and the humanities. Ultimately, the unique integration of instruction, research, and the development of information competencies will provide all Michigan Tech graduates with the capacity to access, evaluate, and effectively use information technologies and resources to keep abreast of breaking developments in their fields, regardless of major. Michigan Tech graduates will be poised to exercise leadership in industry and research in an economy dominated by the management of information and the development of information technologies, meeting our constitutional mission in a means that was not even conceived of when it was written in 1964.

D. Funding Resources

STEM Learning Facilities fund raising is a continuation of the successful efforts for Phase I, and the University is committed to raising the $12.5 million necessary to see the completion of this most vital endeavor, for our students, the State, and beyond.

V-C-1. Michigan Tech Fund Report

Mr. Butvilas provided the Board with the following report.
Michigan Tech Fund Update
to the Board of Control
December 12, 2008

George Butvlias
Campaign Total to Date

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY09 gifts</td>
<td>$11.95</td>
</tr>
<tr>
<td>FY08 gifts</td>
<td>25.61</td>
</tr>
<tr>
<td>FY07 gifts</td>
<td>29.58</td>
</tr>
<tr>
<td>FY09 corporate research</td>
<td>2.99</td>
</tr>
<tr>
<td>FY08 corporate research</td>
<td>6.53</td>
</tr>
<tr>
<td>FY07 corporate research</td>
<td>6.21</td>
</tr>
<tr>
<td>Selected FY06 gifts</td>
<td>12.29</td>
</tr>
<tr>
<td>(discounts of Planned Gifts)</td>
<td>-5.71</td>
</tr>
<tr>
<td>Total</td>
<td>$89.45</td>
</tr>
</tbody>
</table>

Top 10 Outstanding Asks

1. Individual $10,000,000
2. Individual 10,000,000
3. Individual 5,000,000
4. Corporation 4,000,000
5. Individual 3,000,000
6. Individual 2,500,000
7. Individual 2,500,000
8. Individual 2,000,000
9. Individual 2,000,000
10. Individual 1,000,000
Total $42,000,000
V-C-2. Gifts

It was moved by R. Reck, supported by K. Clark, 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, 2008 through October 31, 2008
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>Goal</th>
<th>FY09 YTD Total</th>
<th>% YTD</th>
<th>FY09 YTD Total</th>
<th>FY08 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25k and up)</td>
<td>27,000,000</td>
<td>8,983,321</td>
<td>30%</td>
<td>1,583,827</td>
<td>4,955,615</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25k and up)</td>
<td>335,323</td>
<td>335,323</td>
<td></td>
<td>335,323</td>
<td>335,323</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,000,000</td>
<td>180,414</td>
<td>38%</td>
<td>170,414</td>
<td>1,100,000</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>9,000,000</td>
<td>941,755</td>
<td>10%</td>
<td>2,916,504</td>
<td>14,050,115</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,810,000</td>
<td>762,557</td>
<td>24%</td>
<td>773,846</td>
<td>1,548,313</td>
</tr>
<tr>
<td>Corporations</td>
<td>4,970,000</td>
<td>672,273</td>
<td>14%</td>
<td>675,332</td>
<td>2,279,414</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>400,000</td>
<td>35,972</td>
<td>5%</td>
<td>74,500</td>
<td>418,208</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>925,000</td>
<td>200,000</td>
<td>24%</td>
<td>47,873</td>
<td>749,155</td>
</tr>
<tr>
<td>Grand Total</td>
<td>45,000,000</td>
<td>11,122,285</td>
<td>25%</td>
<td>6,384,348</td>
<td>25,767,726</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

11/07/2008 09:11
Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2008 through October 31, 2008
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY09 YTD Total</th>
<th>FY09 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>1,325,344</td>
<td>2,745,351</td>
<td>-1,420,007</td>
<td>-52.1%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>335,161</td>
<td>36,135</td>
<td>309,026</td>
<td>795.4%</td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td>1,660,505</td>
<td>2,881,486</td>
<td>-1,220,981</td>
<td>-42.9%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>124,945</td>
<td>146,906</td>
<td>-21,961</td>
<td>-14.9%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>3</td>
<td>73,880</td>
<td>-73,877</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Receipts from Previous Year Subtotal</td>
<td>124,948</td>
<td>219,786</td>
<td>-94,838</td>
<td>-43.2%</td>
</tr>
<tr>
<td>Total</td>
<td>1,755,443</td>
<td>3,047,662</td>
<td>-1,292,219</td>
<td>-42.1%</td>
</tr>
</tbody>
</table>

V-C-3. Honorary Degree

It was moved by L. Ashford, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate in Sustainable Science and Engineering to Susann Blake Nordrum.

V-C-4. Resignations, Retirements, and Off-Payroll

It was moved by K. Clark, supported by D. Brule, and passed by voice vote without dissent, that the Board of control accepts the resignations and confirms the off payroll determinations.
V. REPORTS

A. Research and Sponsored Programs Report – Dr. David Reed, Vice President for Research (A copy of Dr. Reed’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 The Undergraduate Student Government did not provide a report.

D. Graduate Student Council Report – Ms. Jill Witt, President (A copy of Ms. Witt’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"

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

There were no public comments at this time.

X. CLOSED SESSION

It was moved by K. Clark, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control proceed into closed session for real property transactions. (A closed session for a such purpose is provided for in Section 8 (d) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:
   Richardson – Yes         Reck - Yes
   Brule - Yes              Clark - Yes
   Hicks, Yes              Groenevelt - Yes
   Kershner – Yes           Ashford - Yes

The motion passed.

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

U.S. 41 Easement/Quit Claim Deed

It was moved by R. Groenevelt, supported by S. Hicks, and passed by voice vote without dissent, that the Board of Control authorizes the President or Treasurer to execute a Quit Claim Deed for the State of Michigan to conclude their construction on U.S. 41, Job #88411A.

XI. ADJOURNMENT

It was moved by R. Reck, supported by K. Clark, and passed by voice vote without dissent, that the meeting be adjourned.

______________________________
Secretary of the Board of Control

______________________________
Chair, Board of Control