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

Meeting of
December 14, 2007
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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 14, 2007.

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 14th day of December, 2007, 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
R. A. Reck
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; 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-A-5. Proposal for a Bachelor of Arts in Theatre and Electronic Media Performance and to replace pages 1 and 2 of item V-C-3. Military Service Award.

In addition, R. Kershner recommended that the Board table items V-B-2. Approval of the Renovations to the Memorial Union Building Project, V-B-3. Approval of the West Campus Mall Extension Project, V-C-4. Approval of the Campus Irrigation System Project, V-C-5. Approval of the Keweenaw Research Center Design Center Project, and V-C-6. Approval of Bond Resolution for Campus Projects, as we have learned from our State Senator and Representative that the legislature is seriously considering a capital outlay bill this year and we have decided to hold off on any decisions by the Board on the bonding proposals for our capital projects until we find out what may become available from the State.

It was moved by R. Reck, supported by D. Brule, and passed by voice vote without dissent, that the agenda of the formal session of December 14, 2007, be approved as amended.

II. APPROVAL OF MINUTES

It was moved by M. Richardson, supported by R. Reck, and passed by voice vote without dissent, that the minutes of the formal session of October 4, 2007 be approved.

III. CLOSED SESSION

It was moved by R. Reck, supported by D. Brule, and passed by voice vote without dissent, that the Board of Control proceeds into closed session to discuss collective bargaining, and real property transactions. (A closed session for such purposes are provided for in Sections 8 (c) and (d) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:
Richardson – Yes            Gronevelt – Yes
Reck – Yes                  Clark - Yes
Hicks - Yes                 Kershner – Yes
Ashford – Yes               Brule - 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 also want to take this opportunity to introduce our newest Board of Control member, Lenora Ashford. Lenora holds a Bachelor of Science from Central State University and a Master of Education from Wayne State University, and is principal of Lewis Cass Technical High School in Detroit. Lenora has been honored as an Outstanding Educator by the Detroit Public Schools seven times, and has also been honored with several other education awards and has taught high school biology, physical science and earth science in the Detroit Public Schools. In short, she's my kind of woman. She helped develop the curriculum for the Detroit Science Center Super Summer Science Camp and the high school curriculum for the Detroit Area Pre-College Engineering Program and engineering preparatory program with close ties to Michigan Tech. I had the privilege of attending Lenora’s Senate Confirmation Hearings, and she did an excellent job and impressed the Senators with her answers and educational experience. The availability of her knowledge of K-12 will be vitally important to us as we continue to recruit outstanding high school students. We are very pleased to have Lenora as a member of our Board and enthusiastic about the contribution she will make.

Welcome Lenora.

In my opening remarks at the last Board meeting, I discussed that at subsequent Board meetings we would focus on a specific strategic plan goal, and that each report at the meeting would be directed toward that goal. Today’s meeting will focus on Goal #1 which is “attract and support a world-class and diverse faculty, staff and student population”. Following my own rules, I would like to share a few items in support of that goal.

One of the ways that an institution can attract world-class faculty is to HAVE world-class faculty. Drs. Barkdoll, Baillod and Reed are excellent examples of this:

Associate Professor Brian Barkdoll has been elected a fellow in the American Society of Civil Engineers. Gaining fellow status involves being as ASCE member for a significant amount of time, being a licensed professional engineer, being nominated by an ASCE official and having three testimonial references of unique achievement from other ASCE fellows. Congratulations to Dr. Barkdoll.

Bob Baillod, Professor Emeritus and former Chair of the Department of Civil and Environmental Engineering has been elected to a three-year term on the Board of Trustees of the American Academy of Environmental Engineers (AAEE). Dr. Baillod is the founding editor of the Applied Research and Practice Section of the AAEE Environmental Engineer publication. He also serves as co-leader of the National Environmental Engineering Body of
Knowledge Working Group and represents AAEE as an alternative member of the ABET Board of Directors. Congratulations to Dr. Baillod.

In addition, our Vice President of Research, Dave Reed, has been selected to receive the 2008 College Career Achievement Award from Virginia Tech. Congratulations Dave.

The recognition that these three individuals have achieved is only a sample of the various honors and awards that our faculty receive, and exemplifies and supports several subgoals of Goal 1 including “expanding professional development opportunities for all” and to “promote and tenure faculty with national and international reputations” which is critical to attracting world-class and diverse faculty, staff and students.

Whether we like it or not, rankings matter. Potential students and faculty alike use national rankings in their process of selecting a university. I am pleased to report that Michigan Tech is continuing its improvement in this area. I’m going to cheat a little here and talk about research rankings, which technically belong under goal 3 of the strategic plan, but since this productivity reflects the caliber of our faculty and students, it is important to note it here.

Michigan Tech has moved up six places in the National Science Foundation’s annual report on research expenditures to 173rd from 179th. Most notably, the Department of Mathematical Sciences has seen a phenomenal boost in the rankings. In its breakdown by field, NSF publishes only the top 100, and in fiscal year 2005, Michigan Tech’s math department did not make that list. However, in FY2006 it rocketed up to 79th. The report lists Michigan Tech 125th among public institutions, up from 127th, and 75th among institutions without medical schools, up from 79th. At 9.7 percent, Michigan Tech is 19th in the nation in the proportion of research supported by industry.

The School of Forest Resources and Environmental Science faculty ranked first in the nation for their scholarly productivity during 2006-2007, according to a report released in the November 16, 2007 issue of the Chronicle of Higher Education. In this year’s faculty productivity index, Yale University’s forestry faculty ranked second to Michigan Tech, and Michigan State University ranked third. Last year, Michigan Tech ranked fourth and Yale topped the list.

The Department of Geological and Mining Engineering and Sciences faculty productivity ranked sixth among 375 research universities that grant Ph.D.s, and Michigan Tech overall ranked in the top 20 research universities specializing in Science, Technology, Engineering and Math (STEM) fields. Half of the faculty members in the department had a journal publication during the year, and one-third of them were cited in another scholar’s work.

Again, these three examples of departments gaining well deserved recognition nationwide is a tribute to the hard work and dedication of our outstanding faculty, staff and students, and will help Michigan Tech to attract world-class people.

I just returned from Kennedy Space Center. Their slogan is "where the rubber meets the road", which they, of course, mean quite literally. At Michigan Tech the rubber meets the road in the caliber of our students and the opportunities we afford them while they are here.

I’d like to highlight two student teams who won awards at national competitions in October as an example of the quality of our students.
The Mechanical Engineering-Engineering Mechanics Senior Design team has earned the best-in-the-nation honors for bringing automation to a tedious, labor-intensive machining process. When machining metals with a lathe the cutter becomes dull very quickly and must be rotated manually, a process that requires constant monitoring. The team successfully developed an automatically indexing insert toolholder that saved time and labor, and entered the project in the American Society of Mechanical Engineers’ Student Manufacturing Design Competition, which selected it as one of five finalists. The finalists traveled to the International Manufacturing and Science and Engineering Conference, held in Atlanta, for the final stage of the competition, and on October 16 after all the projects were evaluated, the Michigan Tech team was awarded top prize. Our congratulations to the Mechanical Engineering-Engineering Mechanics Senior Design Team Members Jeremy Rickli, Jonathan Granstrom, John Armstead, Andy Fenderbosch, Casey Coolich, and their advisor Assistant Professor Jamie Camelo for their efforts.

A team of six Michigan Tech Pavement Enterprise students won first place in the Heavy Civil Division at the Associated School of Construction Region III student competition held in Chicago the week of October 22nd. The team members, all civil engineering students) were Jacob Barden, Kyle Ellis, Breandan Karas, Kristen Roth, Aaron Snyder and Chris Warren. The competition consisted of the students developing a bid proposal for a heavy civil project in 16 hours using only what they brought with them. The project this year was a bridge with the focus on the superstructure. The Michigan Tech team beat a team from the University of Cincinnati (second place) that had won the Heavy Civil Competition the last nine years and was the defending national champion. The team now advances to the National Championship in Las Vegas in March. Congratulations to the team and their advisor Dr. Kris Mattila, and good luck at the nationals.

The success of the student teams at national competitions is extremely important in “attracting and retaining bright, motivated and adventurous students” and we are very proud of the accomplishments of our students and look forward to seeing more Michigan Tech student teams in the news.

As Yogi Bera said, "Nobody goes there any more - it's too crowded." World-class people want to go where there are world-class people to work with, to talk to, and to be productive. The Board would like to express its gratitude to the faculty, staff and students for their dedication and commitment to making Michigan Tech a premier research university where we prepare students to create the future.

President’s Comments

I also wanted to thank Lenora for joining us. To have a person of her stature as an educator in the State of Michigan and to be attracted to Michigan Tech is just outstanding, and we look forward to working with her. We have worked together for a few years, and this makes it a much more interesting relationship because now she’s my boss.
As Chair Clark pointed out, there are tremendous things going on at Michigan Tech. It’s creating the culture of success that people look at when they think about Michigan Tech, and decide can I be successful at Michigan Tech. However, you wonder sometimes if people really notice outside the faculty and staff and the Board, so today I thought I’d go to the mail bag and take a look at some of the things that we have heard over the past couple of months. People don’t get a job at a university as much as they join a university. There’s a difference, and it’s that dedication that helps make Michigan Tech great. Here’s a few examples.

From a mother who recently toured campus with her daughter. She said “of all the universities we have visited so far MTU has impressed us the most with its obvious scholarly atmosphere as well as impressive personal concern for the attending students. Some universities seem to spend effort on gaining students, but not much energy in retaining them through real attention to needs. MTU staff and professors seem to have a different attitude. It appears the student is the impetus for MTU’s existence and the professor’s primary concern. Encouraging not just a constant search for new knowledge in particular fields of study, but emphasizing learning how to learn and student fit with the university and programs let us know that everyone there is interested in each student as an individual not just as another body at the school. I don’t know if Lydia will choose Michigan Tech as her school, but if she does I’ll be pleased. “

Here’s an excerpt from a letter of a family whose apartment burned this summer. “The university immediately found the students a place to live inDaniell Heights, provided free meal passes, and very generously replaced lost items from the MTU bookstore. In addition, the faculty has been very understanding of the situation by assisting with notes and allowing additional time to complete coursework. We cannot thank you enough. In particular, we would like to specifically thank Dr. Les Cook, Vice President of Student Affairs and Travis Pierce, Director of Residential Life who very caringly went the extra mile to make sure that everything possible was done to help the students. They truly feel valued as students. More importantly she said, we tell our story to everyone we know.

From a graduate student who received a notice that her daughter needed to depart the U.S. within 30 days due to a surprise change in the citizenship status (actually, a mistake that was made at the federal level). She wrote “from the beginning of June through the middle of September, the International Programs Services Officers Dr. Saleha Suleman, Dr. Marilyn Vogler and Ms. Janey Pindral worked tirelessly to resolve the problem with the U.S. citizenship and immigrations services. Nearly every day they never stopped trying to fix the problem even at the busiest time of the year. I am so happy that I work in such a warm community and with people helping me tirelessly.”

The next one is probably my favorite. It came after Commencement last year. “I’d like to commend your faculty members for beginning what I would consider a rather extraordinary part of the ceremony. It was so awesome to see your faculty begin the standing ovation for the ROTC students as they took the oath to defend our country. These young men and women certainly deserve it, and I have passed this on to friends whose sons and daughters are serving in Iraq. By the way, thank you for also giving our son a worthwhile education. His four years were sometimes difficult, seemingly impossible at other times, and always challenging. We are grateful for the enterprise program which is one of the main reasons that he was hired as a systems engineering at Rockwell Collins.”
This leading by example, going the extra mile and getting the best people that’s what it’s really all about -- making the impression on the people outside the university. On the academic side we thought that we would have some people speak for themselves. At this point President Mroz presented the Board with video presentations from the Yes Expo and recruitment activities.

V. ACTION/DISCUSSION ITEMS

V-A-1. Academic Affairs Committee Report

Mr. Gronevelt provided the Board with the following report.

The Committee met yesterday morning and began with the Provost summarizing progress on the ongoing projects related to Goal #1 of the strategic plan, and she will review some highlights of that presentation next.

In addition, the Provost pointed out that we have some space limitations and that these are obstacles for some of our programs presently, and these space pressures are likely to increase as we grow the faculty.

Today is the “best before” date for the Strategic Faculty hiring initiative, and we have over 100 applications for the ten positions in sustainability. As you will recall, the applicants have to submit a fairly detailed package of materials, specific to the positions, so this means that all of these applications are likely to be “serious contenders”. Review will begin next week.

President Mroz, in a slide presentation, reviewed the development of the strategic initiatives and the major factors involved in their implementation. He emphasized the importance of aligning resources and academic programs and the efforts that are currently underway through interdepartmental relationships that are developing even further than they have been in the past.

Dr. Cook introduced a new scholarship program that will provide opportunities for members of military families to attend Michigan Tech. As we know, military families move around the country quite frequently and are disadvantaged in terms of criteria for resident tuition. The Committee supports the adoption of this program.

The Provost outlined the reasons for requesting a change to BOC policy 17.13, which is designed around traditional 15-week course timetables. This change will allow courses to be offered in flexible modes, such as concentrated modules, while still ensuring that proper reporting of credit hours is maintained. The Committee supports the proposed policy change.

The Academic Affairs Committee was very excited to hear of the new Bachelor of Arts in Theatre and Electronic Media Performance that was recently approved by the Senate. The Provost pointed out that Michigan Tech grads would therefore have the opportunity to attend the Big Oscar evening as well as the technical Oscars on the day before. The program will be
a very important extension of the technically based programs that exist at present. The Committee supports this degree program.

Dr. Cook reviewed additional benchmark data on the student body that was asked for in previous meetings. It was put together in a report that will be useful in evaluating progress in initiatives as strategies unfold with regard to the student body. A couple of facts that are significant are in an 18 university peer group that was used in the data base, Michigan Tech showed the highest job placement among our peers within 6 months of graduation. They also have the second-lowest average in total debt upon graduation (just over $14,000).


**Strategic Plan**

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

- Attract and support a world-class and diverse faculty, staff and student population

Actions....Provide

1.1 outstanding work environment & support opportunities for all members of the Michigan Tech community

- competitive compensation
- professional development opportunities for all
- promote and tenure faculty with national and international reputations
- support, reward successful faculty & staff
New Endowed Chairs and Professorships

Robbins: Manufacturing

Robbins: Materials

Robbins: Environmental Management

Actions....

- Attract and retain bright, motivated and adventurous students

  - Special Academic Opportunities: HI, PAVILS, SURF, enterprise, CenTILE, Peace Corps ML, DBO...
  - Study Abroad
  - International Senior Design
  - Kimberly-Clark Writing Center

Actions....

- Provide vibrant cultural enrichment programs
- Achieve diversity consistent with national norms

MichiganTech
Climate Survey 2005

Findings:
- Faculty find the campus welcoming
- Women are more sensitive to climate issues than are men (or experience climate differently)
- Many faculty would appreciate more mentoring, and child care
- There is widespread consensus that greater diversity will enhance the success of Michigan Tech
Little Huskies daycare center

Institutional excellence in the 21st century requires Michigan Tech to enhance campus diversity and develop an inclusive climate for all its members.

Other factors in recruitment and retention: accountability

- "Dashboard" reporting institutional data
  http://www.admin.mtu.edu/are/dashboard
  (Mary-Jane Lawney, Richard Elenich)
- University Metrics
- Departmental/Unit Metrics

- Gaps - assembling information on:
  - Strategic initiatives
    - Agree upon format and level of detail (deans)
    - Gather standardized data from units/areas
  - Some Operations Metrics

MichiganTech
Other factors in recruitment and retention

- VSA participation (Voluntary System of Accountability)
- AQIP projects completed on:
  - Classroom Use
  - Research/Lab space inventory
  - Diversity and Faculty Recruitment
- Committees will report back through Campus Forums
- AQIP under way: "Carbon counting:
  - (the energy footprint of Michigan Tech)
- New AQIP topics being invited

Actions....

1.2 Increase the diversity of our faculty, staff and students

- Implement unit diversity plans, rewarding those achieving diversity goals
  - Oversight of hiring process, from development of the advertisement to the offer of appointment
  - Provide workshops and information for search committees, chairs
Actions....

1. Provide exceptional facilities and an aesthetically pleasing environment.
   - Construct and renovate technologically and ecologically superior facilities
     - Modify campus enhancement plans to incorporate energy and environmental considerations
     - Complete "Carbon Counting" AQIP project
     - Integrate sustainability in our processes and behaviors on campus
     - Reconcile stakeholders and authors of previous sustainability reviews (students, faculty, staff and community members)

Actions....

- Optimize the use of resources, laboratories, and equipment
  - Campus Space Survey
  - [Classroom] Teaching Space Survey AQIP
  - Merger of multiple space database inventories
  - Data gathering to evaluate models for research space assignment based on disciplinary needs, research funding (inputs), graduate student training and published research output
  - Encourage facilities-sharing to increase productivity, reduce duplication, and facilitate collaborations

Developmental Change

- Departments formerly providing electives and support now also have degree programs
- Diversity of program options will enhance student diversity
- Increased research expectations require support and space for graduate study
- We need short-term, economical solutions to address space constraints
- And long term plans based on regular Department/Program reviews, to guide resource decisions
Conclusion...

- We have great faculty staff and students
- We need to retain this talent
- We need to renew continuously
  - many retirements in the next 10 years as baby boomers on staff and faculty retire
- To hold a permanent seat in the top 50, we need to first look to our people...
- Hence, Goal #1...

V-A-3. Emeritus Rank

It was moved by R. Reck, supported by R. Gronevelt, and passed by voice vote without dissent, that the Board of Control approves the following emeritus appointments:

1.) Dr. Barry M. Pegg, Associate Professor Emeritus, Department of Humanities
2.) Dr. Barbara S. Bertram, Professor Emerita, Department of Mathematical Sciences
3.) Dr. Konrad J. Heuvers, Professor Emeritus, Department of Mathematical Sciences
4.) Dr. John W. Hilgers, Professor Emeritus, Department of Mathematical Sciences
5.) R. Stephen Roblee, Professor Emeritus, Department of Mathematical Sciences

V-A-4. Degrees in Course

It was moved by D. Brule, supported by M. Richardson, 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 200709

**Associate in Applied Science in Civil Engineering Technology**
Philip William Ahola - Magna Cum Laude
Dustin Joseph Grentz
Mark Daniel Price
Curtis Jay Saarinen
John Joseph Semo - Summa Cum Laude

**Associate in Applied Science in Electromechanical Engineering Technology**
Jacob W Hildebrandt
Bachelor of Arts in Scientific and Technical Communication
John Tyler J Debelak
Joel Elliot Fox - Cum Laude
Evelyn Sue Helminen - Summa Cum Laude

Bachelor of Science in Business Administration
Robert Michael Green
Mariya L McCormick
James M Stitt - Cum Laude

Bachelor of Science in Electrical Engineering
Kari L Hanson - Magna Cum Laude
Trever J Hassell
John Robert Lucier
Justin Robert McHenry
Maribeth Mae Powers - Magna Cum Laude
Matthew David Rossman - Cum Laude
Scott M Sagne
Eric David Smith - Summa Cum Laude
James M Stitt - Cum Laude
Kevin Michael Thompson

Bachelor of Science in Mechanical Engineering
Thomas Matthew Peterson

Bachelor of Science in Materials Science and Engineering
Patrick M Quiney

Bachelor of Science in Biological Sciences
Emily R Umlor

Bachelor of Science in Mathematics
Lindsay N Davis - Magna Cum Laude

Bachelor of Science in Psychology
Jennifer L Christianson

Bachelor of Science in Social Sciences
Julie Courtland Matijega - Cum Laude

Bachelor of Science in Scientific and Technical Communication
Elizabeth Kay Breining
Joseph Edward Girard
Joshua Lee Hintz
Lucas James Johnson
Julie Kay Nordstrom
Bachelor of Science in Construction Management
Martin Robert Olgren
Dan Michael Rautiola
John Joseph Semo - Summa Cum Laude

Bachelor of Science in Computer Network and System Administration
Brandon Robert Cummings - Magna Cum Laude
Amanda K McCarty
Mark C McKenney
Keith D Niemela
Peter L Roelandt
Ross Wayne Schneider

Bachelor of Science in Electrical Engineering Technology
Thomas Lawrence Nichol
Joseph P Niewendorp

Bachelor of Science in Surveying
Michael Jule Glime
Matthew R Johnson
Brian Paul Nasi
Adam C Sundberg

Bachelor of Science in Mechanical Engineering Technology
Travis Taylor Archer
Joshua Aaron Artrip
Adam Paul Collins
Jordan Joseph DeForge
Dylan Robert DeTemple
Gared John Halverson
Jack Leo Joliat - Cum Laude
Lynn Emerson Kase
Adam Joseph Kaylor
Peter D Lemery
Geoffrey John Lex
John R McGovern
Patrick David McLean - Magna Cum Laude
Jacob Peter Meikle
Steven Kent Pennala
Timothy Todd Sibley
Austen M Smith - Magna Cum Laude
Robert Jason Tomac
Matthew Aaron Wagg
Thomas Fredrick Young
Andrew James Zingler - Magna Cum Laude

Bachelor of Science in Surveying Engineering
Rodney Lee Bredeweg - Cum Laude
Wayne E Dabrowski
Justin Alfred Rhein

Michigan Technological University
Degrees Awarded for Conferral Term 200712

Bachelor of Arts in Liberal Arts
Peter Martin Jones
Emily Hulda Svenson - Magna Cum Laude

Bachelor of Arts in Scientific and Technical Communication
Pavi Elle Shanell Poole

Bachelor of Science in Business Administration
Amanda Beth Bammert
Mike Batovanja - Cum Laude
Jonathan B Berg
Ryan Rakesh D'Souza
Matthew Jeffrey Donovan
Donald D Downing
Sean Norman Finnegan
Stephanie Diana Kavakko
Michael J Linder
Adam L Michaud
Cayla Ann Nyeenhuis
Kristina Diane Pirrone - Magna Cum Laude
Nicole Lee Vestich
Caleb Wendel

Bachelor of Science in Biomedical Engineering
Danielle Marie McCabe
Heidi Joy Mulheron
Shaunna Beth Turner

Bachelor of Science in Civil Engineering
Mitchell Blaine Ammann
Ryan Patrick Bauman
Nicholas Jeremy Darga
Phillip Richard Johnson - Magna Cum Laude
Justin Kyle Logsdon
Forrest K Maki
Richard James Myers
Benjamin Cody Peterson
Anthony Joseph Thomas Pietrangelo - Cum Laude
Steven Edward Reed
Boris Simeonov Simov - Cum Laude
Kaylyn Anne Soller
Brooks Allen Stickler
David Arthur Vogelheim
Joseph George Wisniewski
Matthew Donald Young

**Bachelor of Science in Chemical Engineering**
Michael Raymond Bergeson
Kourtney Hosner VanderPloueg
Michael Timothy Vandermuss

**Bachelor of Science in Computer Engineering**
Braden Michael Richardson - Cum Laude
Madie Ann Xiong

**Bachelor of Science in Electrical Engineering**
Jason M Chlopek - Magna Cum Laude
Brendan Thomas Grimes
Joshua James Jauquet
William Allen Jordan
Magali M Koyo
Peter Vincent Pawlowski - Summa Cum Laude
Kandarp Prasad
Raymon Anthony Smith

**Bachelor of Science in Environmental Engineering**
Kyle James Bareither

**Bachelor of Science in Mechanical Engineering**
Michael David Aho
Derek R Botero
Jeffrey Allen Bowman
Alan W Campbell
Joseph F Cowdery
David P Galganski
Brendan Thomas Grimes
Michael James Heavener - Magna Cum Laude
Christopher John Kero
Dasol Kim
Adam Ryan King
Ronald William Knoebel - Summa Cum Laude
Brandon W Krieger
Jeffrey Robert Lachapell
Nicholas A Manville
Christopher John Metelsky
Kassie Ilene Monick - Magna Cum Laude
Gregory J Montie
Kenny Ng - Summa Cum Laude
Michael David O'Shaughnessey - Cum Laude
Gregory David Paine
Adam W Pankonin
Owen K Seltz
Brandon Jay Smith
Raymon Anthony Smith
Jason Michael Tougas

**Bachelor of Science in Forestry**
Mark Douglas Burgenmeyer

**Bachelor of Science in Applied Physics**
Victor W Muzzin

**Bachelor of Science in Biological Sciences**
Aaron Gary Arredondo - Magna Cum Laude
Danielle Nicole Drekich
Dana Michelle Gray
Jason Allen Harju
Anna Marie Meyers - Magna Cum Laude
Louis Paul Paladino
Joseph Paul Quello

**Bachelor of Science in Chemistry**
Peggy Ellen Andres
John Joseph Williams

**Bachelor of Science in Clinical Laboratory Science**
Joseph Paul Quello

**Bachelor of Science in Computer Science**
Say Huang Ng
John William Thomas - Cum Laude
Raymond Louis Wrobleski - Cum Laude
Kevin A Zeits

**Bachelor of Science in Exercise Science**
Christi Lynn Schmitt
Christopher Elmer Schwartz

**Bachelor of Science in Psychology**
Robert William Evans
Jessica Ann Kilpela

**Bachelor of Science in Social Sciences**
Ryan Nicholas Kauppi
Brian Richard Lindgren
Kevin James Porter
Bachelor of Science in Scientific and Technical Communication
Richard William Carpenter
Sara J Switzer

Bachelor of Science in Construction Management
Amanda J Caspary
Amanda Lynn Larsen

Bachelor of Science in Computer Network and System Administration
Lucas P Olli

Bachelor of Science in Electrical Engineering Technology
Robert Floyd Holloman III

Bachelor of Science in Mechanical Engineering Technology
Matthew T Fifield
Aaron John Kiilunen
Ryan Mark Lenger
Nolan David Osborne
Cole J VanStrydonk
Jered Michael Wills

Master of Business Administration in Business Administration
Sean Mich Cafmeyer
Rodney J Rajnauth
Luke Alexander St Martin
Jessica Ann Thomas

Master of Engineering in Engineering
Yu-Hao Chen

Master of Science in Civil Engineering
Tor Js Anderzen
Fredline Ilorme
Milagros JeanCharles
Jennifer Leigh Post

Master of Science in Electrical Engineering
David Andrew Meyer
Adaobi Gold Nnorukah
Rodney Royce Snow

Master of Science in Environmental Engineering
Sinan Ayad Abood
Nancy-Jeanne Bachmann
Valerie Joan Fuchs
Michelle Edith Jarvie
Helen Evangeline Muga
Lisa Marie Tomlinson

**Master of Science in Geology**
Rudiger Packal Escobar Wolf
Jason Russell Evans
Alexandria London Alley Guth

**Master of Science in Mechanical Engineering**
Rayomand Homi Dabhoiwala
Kevin Juan Herrera
Weiwei Hu
Margot Jennifer Hutchins
Rajesh Narayanan Nair
Andrew Jason Peplinski
Radheshyam Tewari
Christopher Jay Weingartz
Yung Tai Yang

**Master of Science in Materials Science and Engineering**
Bowen Li

**Master of Science in Forest Ecology and Management**
Joshua L Reed

**Master of Science in Applied Science Education**
Jennifer Lovell Krebs
Amy Patricia Muzzarelli

**Master of Science in Chemistry**
Feifei Cai
Shuai Wu

**Master of Science in Computer Science**
George Ryan Anderson
Christopher Joseph Blazek
Kishor Joshi
Jason Robert Lewis

**Master of Science in Mathematical Sciences**
Gongyi Feng
Rui Tang
Xuexia Wang
Chao Zhong
Artem Zhuravlev

**Master of Science in Physics**
Puspamitra Panigrahi
Benjamin Adam Ulmen

**Master of Science in Rhetoric and Technical Communication**
Alexa Lane Ducsay
Yang Liu

**Master of Science in Environmental Policy**
Smriti Dahal
Gerald Kenneth Greer
Afton Eben Sather-Knutsen

**Master of Science in Industrial Archaeology**
Stephanie Kathleen Atwood
Shannon Audrey Bennett

**Doctor of Philosophy in Civil Engineering**
Pasi Tapio Lautala

**Doctor of Philosophy in Electrical Engineering**
Hui Tong

**Doctor of Philosophy in Geology**
Adam John Durant
Lizzette Alexandra Rodriguez
Pavel Stroubek

**Doctor of Philosophy in Engineering - Environmental Engineering**
Michelle Edith Jarvie
Maria Val Martin

**Doctor of Philosophy in Forest Science**
Joseph Nii Tetteh Darbah
Cinzia Fisore
Peter Michael Hurley

**Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics**
Brian Joseph Eggart

**Doctor of Philosophy in Physics**
Kah Chun Lau

**Doctor of Philosophy in Rhetoric and Technical Communication**
Merle Niemi Kindred
Frederick John Young
V-A-5. Proposal for a Bachelor of Arts in Theatre and Electronic Media Performance

It was moved by R. Gronevelt, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control approves the advancement of the proposal of the Bachelor of Arts Degree in Theatre and Electronic Media Performance to the State Academic Affairs Officers.

V-B-1. Finance and Audit Committee Report

Mr. Kershner reported that the Finance and Audit Committee met twice this month and discussed the following:

The first meeting was conducted by a conference call and was a preliminary discussion on capital projects and the proper method of financing those projects. What came out of the first meeting was a number of questions to be answered at yesterday’s meeting and also some suggestions about formatting information in connection with capital projects and financing alternatives. The suggestions were adopted by the university and resulted in some improvement in the process of evaluating projects.

At yesterday’s meeting we had both the finance and the audit functions on the agenda. The meeting began with a private meeting with the Internal Auditor and she reported several encouraging things. Audit staffing and supports looks good, and the development of a compliance manual and a code of conduct manual are underway. In addition, the University now has an electronic reporting system called Ethics Point where employees can report anonymously on-line any concerns which will be confidentially investigated by Internal Audit.

The Committee reviewed the financial projections for this year, and we are projecting a deficit in the general fund, and a slightly positive or break-even balance in the current fund.

Although it is not the exclusive providence of the Finance Committee to do this, we were asked to review the five proposed capital projects, some of which could be justified financially and some could not. The Committee took a straw poll and there was support for the projects.

The means for financing these capital projects was discussed. The Committee would prefer to have bonds issued at a fixed rate which brings certainty. If all of the five projects were to be financed with a bond issue, the annual debt service requirement would be about $500,000 a year for 30 years.

The Committee urged the Administration to better consider how they will react to unexpected short falls and unexpected bad news in both the long and short term. When we asked the question what will you do to fix this year’s budget, we did not get a satisfactory answer. When we asked the question what will you do when we don’t have an extra $500,000 in the budget next year or the year after, we didn’t necessarily get a satisfactory answer. Our concern is on the process. Not on what the answer is, but how we will arrive at the answer.
V-B-2. Approval of the Renovations to the Memorial Union Building Project

This item was deleted from the agenda.

V-B-3. Approval of the West Campus Mall Extension Project

This item was deleted from the agenda.

V-B-4. Approval of the Campus Irrigation System Project

This item was deleted from the agenda.

V-B-5. Approval of the Keweenaw Research Center Design Center Project

This item was deleted from the agenda.

V-B-6. Approval of Bond Resolution for Campus Projects

This item was deleted from the agenda.

V-B-7. Gifts

It was moved by R. Reck, supported by R. Kershner, 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
### Gift Activity Cash Report
July 1, 2007 through October 31, 2007
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>2,776,698</td>
<td>2,745,769</td>
<td>30,929</td>
<td>1.1%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>0</td>
<td>145,744</td>
<td>-145,744</td>
<td>-100.0%</td>
</tr>
<tr>
<td><strong>Current Year Subtotal</strong></td>
<td><strong>2,776,698</strong></td>
<td><strong>2,891,513</strong></td>
<td><strong>-114,815</strong></td>
<td><strong>-4.0%</strong></td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>137,352</td>
<td>93,510</td>
<td>43,842</td>
<td>46.9%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>103,025</td>
<td>2,013,923</td>
<td>-1,910,898</td>
<td>-94.9%</td>
</tr>
<tr>
<td><strong>Receipts from Previous Year Subtotal</strong></td>
<td><strong>240,377</strong></td>
<td><strong>2,107,433</strong></td>
<td><strong>-1,867,056</strong></td>
<td><strong>-88.6%</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,017,075</strong></td>
<td><strong>4,998,945</strong></td>
<td><strong>-1,981,871</strong></td>
<td><strong>-39.6%</strong></td>
</tr>
</tbody>
</table>

### Michigan Technological University
### Michigan Tech Fund
### Fundraising Productivity Report
July 1, 2007 through October 31, 2007
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>1,552,336</td>
<td>6%</td>
<td>1,541,305</td>
<td>4,405,555</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td></td>
<td></td>
<td></td>
<td>145,744</td>
<td>145,744</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,500,000</td>
<td>409,919</td>
<td>27%</td>
<td>326,082</td>
<td>1,366,716</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>9,250,000</td>
<td>3,929,504</td>
<td>42%</td>
<td>4,241,969</td>
<td>15,522,396</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,580,000</td>
<td>451,112</td>
<td>29%</td>
<td>299,695</td>
<td>1,543,293</td>
</tr>
<tr>
<td>Corporations</td>
<td>2,500,000</td>
<td>916,635</td>
<td>37%</td>
<td>683,895</td>
<td>2,018,081</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>1,300,000</td>
<td>83,906</td>
<td>6%</td>
<td>60,472</td>
<td>443,008</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>1,520,000</td>
<td>47,673</td>
<td>3%</td>
<td>1,017,888</td>
<td>2,497,524</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>45,000,000</strong></td>
<td><strong>7,391,088</strong></td>
<td><strong>16%</strong></td>
<td><strong>8,317,258</strong></td>
<td><strong>27,942,316</strong></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
V-C-1. Honorary Degree

The Administration is recommending that Dr. Bhakta Rath be awarded an Honorary Doctorate in Engineering.

Dr. Bhakta Rath, Senior Executive of the U.S. Department of Defense, is Head Materials Science and Component Technology Directorate and Associate Director of Research of the Naval Research Laboratory. As Head of the Directorate, he is responsible for planning, supervision, and administration of all basic and applied research in structure of matter, condensed matter physics, chemistry, electronics, materials science, plasma physics, computational physics, fluid dynamics, and biomolecular science and technology conducted by a staff of 720 renowned scientists, engineers, support personnel, post doctoral fellows, and visiting professors and students. The Directorate manages over 300 research projects with an annual budget of $280 million.

Following his undergraduate studies in India and masters and doctoral studies at Michigan Technological University (1958), and the Illinois Institute of Technology (1961) he joined the faculty of Washington State University in 1961 and held a tenured position until 1965. Between 1965 and 1976, he was a member of the research staff at Edgar C. Bain Laboratory for Fundamental Research of the US Steel Corporation, Pittsburgh, and research group leader at the McDonnell Research Laboratories, St. Louis. He joined the Naval Research Laboratory in 1976 and was promoted over the years to his present position.

He has published over 200 technical papers and reports, edited/co-edited over 20 books on diverse topics in materials science and engineering, and serves on the editorial board of a number of international technical journals. In addition, Dr. Rath serves as a member of several steering, planning, review, and advisory boards of several Government agencies, seven universities and five technical societies, and has been active nationally and internationally in developing collaborations with academia, industry, and other laboratories.

It was moved by R. Reck, supported by M. Richardson, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate in Engineering to Dr. Bhakta Rath.

V-C-2. Board of Control Silver Medal

The Board of Control Silver Medal is presented to persons who through personal and professional achievement, stand as outstanding examples to our more recent graduates.

The Administration is recommending that the Board of Control Silver Medal be awarded to Walter Anderson.

Walter Anderson graduated from Michigan Tech in 1943 with a B.S. in Electrical Engineering. After a brief stint with General Electric he accepted a position with the Tennessee Eastman Corporation in 1944 in Oak Ridge, Tennessee, working on the Manhattan Project. Following the war, Walt joined the faculty of Michigan Tech’s Electrical
Engineering Department where he taught and also earned the Master of Science degree in 1950. He then returned to Oak Ridge as a project engineer in 1952, and again returned to Michigan Tech in 1954 to continue his career in electrical engineering education.

Walt Anderson was a truly outstanding and versatile professor. Although known as an expert in the area of electric power, he also incorporated the newly invented transistor into electronics courses in the curriculum. He received Michigan Tech’s Distinguished Teacher Award in 1957 and was eventually promoted to the rank of full professor. In 1984 he was appointed as the Director of the School of Technology, and during his tenure the School experienced considerable growth becoming one of the first programs in the State to offer a bachelor’s degree in Surveying. Walt is a registered professional engineer and has served as a consultant for various engineering design firms and electric utilities. He has also served on the Boards of Registration in the State of Michigan and has received numerous awards.

It was moved by M. Richardson, supported by R. Reck, and passed by voice vote without dissent, that the Board of Control approves the awarding of the Board of Control Silver Medal to Walter Anderson.

Mr. Brule commented that he had Walter Anderson as a professor and that he was an amazing person and a fantastic teacher, and is most deserving of this award.

V-C-3. Military Family Education Award

The Administration is recommending the establishment of a Military Family Education Award to grant-in-state tuition (similar to the Alumni Legacy Award) to out-of-state students who have family members (parent, guardian, spouse) serving on active duty in the U.S. military anywhere in the world.

Mobility of the military community, coupled with the state-specific criteria for determining eligibility for in-state tuition often prevent military family members from continuing their higher education. Presently, all but three states, including Michigan, have enacted legislation mandating favorable policies for family members of active duty members. These include requiring institutions to consider residency if the family member of active duty military lived in the state in which the institution is located but are now stationed elsewhere, or claimed residency in another state but are stationed in the state of the institution.

This new award proposes to expand that definition and do something no other school in the nation is doing. It will allow Michigan Tech to target new markets of prospective students (most military bases are stationed in the east and south). It utilizes existing military communication channels for marketing such as educational outreach posts. In addition, combined with our rich Reserve Officer Training Corp (ROTC) programs, the natural connection of our curriculum to national defense interests, and the new Department of Defense student recruiting campaign, will position Michigan Tech as a nation-wide leader in this area.
It was moved by R. Gronevelt, supported by M. Richardson and passed by voice vote without dissent, that the Board of Control adopts policy 9.20.1. Military Family Education Award as presented herein.

9.20.1. Military Family Education Award (MFEA)

Value: Equal to the difference between nonresident and resident tuition.

Eligibility: New undergraduate students who, at the time they apply to Michigan Tech, are considered nonresident students and are children under the age of 24 or the spouse of an active duty member of a Uniformed Service (as defined by Title 10 US Code) including:

- Air Force
- Army
- Coast Guard
- Marines
- Navy
- National Oceanic and Atmospheric Administration Commissioned Corps (NOAA Corps)
- United States Public Health Service Commissioned Corps (PHS/Corps)
- National Guard & Reserve members activated for 365 days or greater

Currently enrolled undergraduate students with this Uniformed Services relationship may petition the University Scholarship Committee for MFEA consideration. Previously awarded assistance may be reduced or cancelled for enrolled MFEA recipients.

Duration: This award will remain with the student for the entirety of their undergraduate education so long as they remain in good academic and disciplinary standing.

Exclusion: Recipients of the MFEA are not eligible for other institutional general fund awards such as the National Scholars Program or Alumni Legacy Award.

Verification: Verification includes presenting Official Orders or Military ID cards to Michigan Tech’s Admissions Office prior to the beginning of classes.

Effective: Beginning Summer Term 2008.

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

It was moved by R. Gronevelt, supported by R. Reck, and passed by voice vote without dissent, that the Board of Control accepts the resignations and confirms the off payroll determinations.
V-C-5. Board of Control Policy Manual Chapters 4, 5 & &

The Board of Control has granted the Administration the authority to negotiate salary, wages, and conditions of employment with the collective bargaining units under policy 3.20. This includes 4 unions representing approximately 700 employees.

Chapters 4, 5 and 7 of the Board of Control policy manual were created when Michigan Tech had only one collective bargaining unit. Today, these chapters pertain to approximately 500 employees who are not covered by a collective bargaining unit. Therefore, it is being proposed that Chapters 4, 5 and 7 of the policy manual be rescinded as Board policy, and that policy 3.20 be amended to include those employees not represented by a collective bargaining unit. Effective upon Board action, the President has adopted those policies included in Chapters 4, 5 & 7 as university policy.

The policies in Chapters 4, 5 and 7 are included herein. These policies are included in the staff handbook and on the website. In addition, the Human Resources Department will provide the Board with periodic updates on employee compensation and benefits.


The amended policy shall read as follows:

3.20. Salary, Wages, Benefits, and Conditions of Employment

The administration is authorized to set and negotiate salary, wages, benefits (including, but not limited to, medical, life, long-term disability, retirement programs and benefits) and conditions of employment with duly authorized officers and/or agents of certified collective bargaining units and non-represented employees.

This supersedes Board of Control policy 3.20. Negotiation with Collective Bargaining Units dated January 28, 1982.

**V-C-6-a. 9.12. Residence Hall Student Association Fee**

It was moved by M. Richardson, supported by D. Brule, and passed by voice vote without dissent, that the Board of Control amends policy 9.12. Residence Hall Student Association Fee as presented herein.

The amended policy shall read as follows:

9.12. Residence Hall Student Association Fee

The University is authorized to collect from each resident a fee not to exceed $30.00 per academic year. The fee shall be divided into two equal installments and collected at the time the board and room payments are made, in most cases with the first payment on board and room charges.

This policy supersedes Board of Control policy 9.12. Residence Hall Student Association Fee dated July 17, 2001.

**V-C-6-b. 13.11. Policy Regarding Capital Additions**

It was moved by M. Richardson, supported by R. Reck, and passed by voice vote without dissent, that the Board of Control amends policy 13.11. Policy Regarding Capital Additions as presented herein.

The amended policy shall read as follows:
13.11. Policy Regarding Capital Additions

The Board of Control will approve all capital additions in excess of $500,000. Capital additions from $25,000 to $100,000 shall be approved by the Treasurer, and capital additions from $100,000 to $500,000 shall be approved by the President of the University.

All capital additions in excess of $3,000,000 must be approved by the State of Michigan’s Legislative Joint Capital Outlay Subcommittee regardless of the source of funding. Capital additions include but are not limited to maintenance, remodeling, additions, land acquisition, utility, landscaping, equipment, telecommunications, roads and parking.

This policy supersedes Board of Control policy 13.11. Policy Regarding Capital Additions dated December 9, 2005.

V-C-6-c. 17.13. Credit Hour Count

It was moved by R. Gronevelt, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control amends policy 17.13. Credit Hour Count as presented herein.

The amended policy shall read as follows:

17.13. Credit Hour Count

Student credit hour counts shall be taken at the close of business on Wednesday of the second week of the term for courses offered under the full instructional term, or the same percentage of time for courses offered under other parts of the instructional term. For courses offered under a non-conventional schedule, as approved by the Provost, student credit hour counts shall be taken at the close of business on Wednesday of the second week of the term.

This policy supersedes Board of Control policy 17.13. Credit Hour Count dated May 7, 2004.

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. Robert Niffenegger, President
   A copy of Mr. Niffenegger’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.
E. Staff Council Report – Ms. Becky Christianson, Chair
A copy of Ms. Christianson’s report was included in the agenda book.

VII. INFORMATIONAL ITEMS

A. Analysis of Investments
B. Auxiliary Enterprises Operations
C. Contracts and Grants
D. Board of Control Follow-up Items
E. Advancement Report

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. Reck, supported by M. Richardson, and passed by voice vote without dissent, that the meeting be adjourned.

________________________________________
Secretary of the Board of Control

________________________________________
Chair, Board of Control