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

Meeting of
October 6, 2011
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Copies of these reports were included in the agenda book.

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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 nine o’clock on the morning of October 6, 2011.

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 9:00 a.m., on the 6th day of October, 2011, 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, M. Richardson, and a quorum was declared present.

The following members of the Board of Control were present:

M. K. Richardson, Chair
S. J. Hicks, Vice Chair
L. D. Ashford
T. L. Baldini
K. I. Clark
J. A. Fream
P. G. Ollila
T. J. Woychowski
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; Max Seel, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Shea McGrew, Vice President of Advancement and Marketing; Ellen 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 Tahtinen recommended amending the agenda to add item V-E. Honorary Degree.

It was moved by T. Woychowski, supported by K. Clark, and passed by voice vote without dissent, that the agenda of the formal session of October 6, 2011, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

I want to welcome everyone to our Fall Board of Control meeting. Although George Butvilas is unable to attend today’s meeting, he does have a really good excuse as he is teaching a class for the School of Business and Economics, and the students are fortunate to have someone of George’s caliber to learn from.

This is always such an exciting time as students, faculty and staff begin another academic year of stimulating learning and cutting edge research and discovery. In addition, there are many events and activities on campus this weekend including Homecoming, Family Weekend, and the Michigan Tech Fund Trustees meetings.

I would like to take a few minutes to highlight some of the exciting things that have been happening since our last meeting.

Dr. Louisa Kramer of the Geological & Mining Engineering & Sciences Department received $527,879 from the National Science Foundation for her project entitled Long-term Measurements of Nitrogen Oxides at the GEO Summit Station, Greenland. According to Dr. Kramer, recent measurement and modeling studies have shown the reactive nitrogen oxides transported from their source regions to the Arctic can significantly impact the Arctic’s levels of tropospheric ozone and its atmospheric radiative budget. This research will improve the understanding of the reactive nitrogen budget in the Arctic while providing an expanded dataset for future research. Measurements will be performed from summer 2012-2016 (previous measurements were performed at the site from 2008-2010). The final dataset will be made available through the Cooperative Arctic Data and Information Service (CADIS) site, which supports all Arctic Observing Network (AON) projects.

Dr. Wayne Pennington, chair of the geological and mining engineering and sciences department, has been named president of the American Geosciences Institute (AGI). The Institute is a nonprofit federation of fifty geoscientific and professional associations that represents more than 250,000 geologists, geophysicists and other earth scientists.

Prior to Michigan Tech, Dr. Pennington worked with Marathon Oil and as an assistant professor at University of Texas at Austin. He has held numerous other positions during his
career, most recently being a Jefferson Science Fellow at the U.S. Department of State and
the Agency for International Development.

During his appointment as a Jefferson Science Fellow, he worked in the Office of
Infrastructure and Engineering within the Bureau of Economic Growth, Agriculture and
Trade. During that time, he worked on issues relating to earthquake hazards in Afghanistan
and science and engineering projects in Pakistan. When the magnitude 7.0 Haiti earthquake
occurred, he used the rest of his appointment to coordinate scientific and engineering teams
heading to Haiti, to present talks for nontechnical audiences on the seismology of Haiti, and
to co-organize a workshop on infusing Haiti's reconstruction with science and engineering.

Dr. Ralph Hodek, associate professor in the civil and environmental engineering department,
is among six individuals appointed to the State Fire Safety Board by Governor Snyder. The
Board develops fire safety rules covering the construction, operation and maintenance of
schools, healthcare facilities, prisons, state-owned and -leased facilities and other public
buildings.

Professor Hodek is on the faculty of the civil and environmental engineering department. He
is a past chair of the Michigan Board of Professional Engineers and a previous member of the
Michigan Board of Land Surveyors.

Michigan Technological University is listed among the top universities in the nation in US

Now ranked 115, Michigan Tech continues its climb on the list, a spot it shares with
Washington State University, Howard University in Washington, DC, and the University of
St. Thomas in Minnesota.

Among the nation’s public universities, Michigan Tech was ranked 57, the same as in 2011.

Also, Michigan Tech made the “Best Colleges” list of top US engineering schools whose
highest degree is a doctorate. Tech was ranked 66, up from 74 in 2011. “It’s gratifying to be
recognized by our peers as one of the leading engineering programs,” said Tim Schulz,
Michigan Tech’s dean of engineering.

In addition, Tech was included among the “A-Plus Schools for B Students,” a category
comprising top-quality universities that also admit a significant proportion of students with
ACT scores between 20 and 30.

Collin Veelee, a mechanical engineering major and Alex Cotton, a mechanical engineering
and economics major teamed up to create the Buckle Blocker which keeps little hands from
undoing seat belt buckles in vehicles. This project propelled Alex Cotton to be named one of
the “Top-Ten College Entrepreneurs of 2011” by Entrepreneur Magazine. In addition, they
have secured a provisional patent and a trademark on the name, and now the Buckle Blocker
is ready for the market.

Congratulations to the faculty, staff and students for their outstanding contributions to
Michigan Tech.
Before turning it over the President Mroz, I would like to congratulate all of those involved in the Parade of Nations, as I understand it was a great success. In addition to our students, staff and faculty, the parade featured the Limanya Drum and Dance Ensemble. The West African performers showcase the musical and dance traditions of Guinea. This was the 22nd annual Parade of Nations, with more than 60 countries represented in the Parade followed by a multicultural festival at the Dee Stadium. This is a great way to bring the students and community together to share, celebrate and experience the many difficult cultures that come together to make Michigan Tech such a great place.

**President’s Comments**

At Michigan Tech, we review our five-year strategic plan every three years and this is one of those years. In a sense, the world has turned more than a thousand times and circumstances or the environment that we operate in has changed a lot.

Our vision for Michigan Tech is one of a vibrant world-class institution, and noted artist Provost Max Seel has taken the lead with the Deans to have a portrait ready for the Board in December of what Michigan Tech will look like. We continue to set measureable goals to meet by the year 2035 or sooner. And, our current efforts are aimed at aligning time, talent, money, and energy to make sure the right things happen each and every day – right now.

As part of the effort, we keep close tabs on what’s working and what’s not.

What’s working? Enrollment is up to 7,031 students this year, the third highest level since 1983.

Undergraduate enrollment stands at 5,728, just shy of the 2014 target of 5,750.

The number of women students is at an all-time high (1,837 or 26%), as are the enrollments of international students (1,023 from 62 countries) and graduate students (1,303). All have been areas of focus for the University.

Female enrollment has been of particular concern in our AQIP accreditation process, given the demands of employers and our student demographics.

Graduate enrollment has also been a concern, as 40 percent of the engineering degrees granted in the U.S. this past year were at the mater’s (33%) and doctoral (7%) levels.

Adding heightened interest in many master’s degrees – especially business in combination with STEM degrees – and it’s easy to see that we’ve got room to run to meet the demands of the market. Even though our graduate enrollment has doubled in the past 6 years, we stand at 18.5% graduate enrollment.

Nationally, graduate enrollments shrank by 1.1% in 2010 after seven years of increases, while we were up 4.7% for that period, and we have a 5% increase in 2011.
At the same time that the number of students has grown, the ACT scores of the incoming class have increased to 26.4 from last year’s composite of 26.1.

In the past six years, these are up over a full point and 4-5 points above the national and Michigan averages. Having students who are better prepared has increased first and second year retention rates to 83.3%, an all time high. Feedback from students and parents is favorable for Michigan Tech, High-Tech, High-Touch brand of transformational education.

Financing education is a struggle at every level (federal, state, institutional and individual). The partnership that once existed to create a middle class starting with the GI Bill and continuing through the Sputnik era and the cold war has ironically disassembled about the same time as the Space Shuttle program reflecting a change in culture that education is a private rather than a public good. And, for the first time in our history, older generations will be more educated than younger generations.

Yet through this, the values and culture of Michigan Tech students and alumni of community, scholarship, possibilities, accountability and tenacity shine in ways large and small.

One example is while national student loan default rates jumped from 7% to 8.8% recently, the default rates for Michigan Tech dropped from 2.9% to 1.9% - half the level of those graduating from private colleges and universities, during what has become known as The Great Recession.

With education and values in place it is no wonder that over 700 recruiters from 240 organizations spent most of a week here conducting over 4,200 job interviews.

These details are an indication of a larger strategic issue: As many universities have cut budgets, and we have as well (2% for academic units this year, and over 4% for administrative units) we also continue to follow strategic plans and invest in people and key resources going forward. In the past four years, we have hired 137 faculty members bringing the tenure/tenure track faculty to 345, well off our low of 295 just a few years ago.

What are the current challenges?

My eldest daughter always reminds me that what doesn’t kill you only makes you stronger.

There are persistent challenges that we face as a backdrop to Michigan Tech’s progress. The cultural issue I’ve mentioned already causes me the most insomnia, and it is exemplified by a sample of times we are working on.

Foremost, the decrease in numbers and college readiness of Michigan high school graduates makes recruiting a primary concern and a subject of tenacious effort.

State support is another. Overall, state funding corrected for CPI stands at 1968 levels when we had just over 4,000 students, compared to 7,000 today. Averaging over all Michigan’s universities state support has gone from providing 75% of funding for a student’s education in 1972 to only 26% in 2010, before the most recent budget cut.
Financial aid for students is another. This year’s largest single cut in direct state support ever follows cuts in financial aid to individuals of 100 million for students attending state universities, while $60 million remains for those attending private schools.

With these actions that have shifted the costs of education to students and their families, it is confusing at best to understand the rationale for a recent bill that would establish a layer of costly bureaucratic oversight of the university board members – both those elected by the people, and those appointed by the Governor and approved by the Senate.

Rest assured that there are efforts to sift the wheat from the chaff…the strategic from the diversions…to address each of these and many other challenges as we go forward, striving to make the best use of time, talent, money and energy to stay on course to be the world class institution that we are becoming.

Perhaps these very challenges are making us a stronger organization.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Ms. Ashford provided the Board with the following report.

On Wednesday afternoon, the Academic Affairs Committee met with all members of the committee in attendance.

First on the agenda was the discussion of two action items. We discussed the capital outlay budget request and support its submission to the State of Michigan. We also support that the Board of Control Policy 15.3 on Off-Semester Compensation which is in part no longer in compliance with the Office of Management Circular A-21 Act be rescinded and replaced by new University Policies and Procedures, specifically by the new University policy 2.6006.

Next, we followed our road map agreed upon at our last meeting to devote one meeting to a principle highlighted in the AGB Statement on Board Responsibility for the Oversight of Educational Quality.

The topic of our meeting was that “the board should ensure that policies and practices are in place and effectively implemented to promote educational quality.

We are satisfied that student learning – and, by implication, educational quality - is clearly identified as a high priority. It leads the list of categories extensively studied during the Academic Quality Improvement Process or AQIP which Michigan Tech is employing for its accreditation. The AQIP Systems Portfolio provides an excellent summary. Since the provost will give an overview and highlight some of the processes in his report to the Board I will limit my remarks to our general discussion about quality: what does it mean that Michigan Tech provides a quality education, what are appropriate quality measures and what is the interplay between teaching and research.
As you can imagine, it was a lively discussion. At the end, it was suggested that a one page summary in dash board format should be prepared which addresses a few top quality measures. The following measures were discussed:

To assess the quality of the **input**, ACT scores, GPA scores, and number of students choosing Michigan Tech were deemed to be appropriate. For the time at Tech, retention rates, graduation rates, and teaching evaluation scores seemed to be useful. To measure the quality of the **output**, job placement data and starting salaries seemed to provide good information.

We touched upon trade-offs between transferring knowledge and discovering new knowledge, higher education’s two main missions. It is difficult to summarize the whole discussion, but in the end, there was consensus about the following:

For Michigan Tech as a *technological university* with a charge given by the State to serve the industries of the State, both missions are important:

New knowledge needs to be discovered and transferred to the market place and citizens need to be educated so we stay competitive. Undergraduates need to be taught not just in the classroom or on-line but need discovery-based experiences outside of the classroom. As a matter of fact, being involved in undergraduate research is considered a high-impact practice for retention. We need the best possible experts who stay at the forefront of knowledge but there is also a role for caring, enthusiastic teaching faculty like Lecturers or Professors of Practice. In order to strike a successful balance, both need to be valued and rewarded.

The discussion about educational quality will be continued at our next meeting in December because it will be devoted to the next AGB principle about *student learning assessment*.

Provost Max Seel presented the following report:

![Provost Report](image-url)
devote one meeting to each of one of the principles in the
AGB Statement on Board Responsibility for the Oversight
of Educational Quality

Thursday, October 6, 2011
The board should ensure that policies and practices are in place and effectively implemented to promote educational quality.

Overlap with Friday, December 9, 2011
The board should charge the president and chief academic officer with ensuring that student learning is assessed, data about outcomes are gathered, results are shared with the board and all involved constituents, and deficiencies and improvements are tracked.

AQIP Systems Portfolio
Category 1 - Helping Students Learn
http://www.rtu.edu/aqip/systems-portfolio/systems-portfolio-about/
P 11 - 28
Common and shared objectives for learning for all students
Specific program objectives
  external accreditation organizations
  external advisory boards (alumni, employers)
  alumni & stakeholder surveys
Designing new programs
Helping students
  Learning Centers
  Effective teaching and learning
teaching evaluations
Career Center
  placement data

Primary policy/practice for ensuring educational quality:
  Accreditation

  Engineering Programs: ABET
  quality standards set by professional societies: ASME, IEEE etc

  Business and Economics: AACSB

  Technology: TAC—ABET

  Forest Resources and Environmental Science: SAF

  Education: TEAC
Example: **ABET** accreditation

**all 10 programs extended for 6 years in 8/2011**

First step: **request for evaluation.**

Each program then conducts an **internal evaluation** and completes a **self-study questionnaire.**

The self-study documents whether **students, curriculum, faculty, administration, facilities, and institutional support** meet the criteria established by ABET and the professional society associated with that program.

**On-campus visit,** the evaluation team reviews course materials, student projects, and sample assignments and interviews students, faculty, and administrators.

At **large annual meeting of all ABET commission members,** the **final evaluation report** is presented by the evaluation team, along with its recommended accreditation action. Based on the findings of the report, the **commission members vote on the action,** and the school is notified of the decision.

Another Example: **AACSMB**

extended for 5 y in 4/2011

**Assurance of Learning Methodology: recognized as best practice**

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**Teaching Evaluations**

**TEACHING EFFECTIVENESS EVALUATIONS**

"Students appear reasonably satisfied with Michigan Tech faculty, rating them University-wide an average of 4.1 on a 5-point scale. Nonetheless, neither students, faculty, nor administrators find the current evaluation instrument satisfactory."

**EARLY-TERM CLASS SURVEYS:**

1. What about this course, or my teaching, is helping you to learn?

2. What could I change about this course, or my teaching, that would improve your learning?"
Dr. Clark added that the students at breakfast were very passionate about getting other students to come to Michigan Tech and that many of them were successful. Dr. Clark and Ms. Ashford feel that this is another indication of student satisfaction.

**Finance and Audit Committee Report**

Mr. Hicks provided the Board with the following report.

The Committee met yesterday and reviewed our five year targets which are in line with the strategic plan. We reviewed the FY 11 outlook which Dan Greenlee and Steve Peacock will overview in their reports. We also discussed preliminary FY 12 first quarter results, as the final results had not been completed by the time our meeting was set. The Committee will have a conference call on October 21 to review the first quarter results. We also looked at strategic alignment, and have already started developing budget planning parameters for FY13. This has been a very good process and I want to commend the team. We are hoping to have the budget planning process completed by February or March, which will enable the University to execute its plans, and expect to have the targets agreed to by the Committee in December.

We also looked at the Capital Outlay Budget Request. As you know, the State of Michigan requests that we put in our capital outlay budget, which is in line with the strategic plan, and the Committee supports the Request. We also looked at a facilities assessment, MPSERS, policies, and a draft report from the External Auditor that was reviewed. In addition, we discussed the capital projects update, continuous improvement, the balance sheet and cash flow. Michigan Tech is well-positioned for the challenging times that are ahead.

Mr. Greenlee provided the Board with the following report.
Michigan Tech

Financial Report
Board of Control Meeting

Thursday, October 6, 2011

Balance Sheet
Condensed Statement of Net Assets
as of June 30, 2011

ASSETS
Current Assets $ 35,942,136
Noncurrent Assets:
Capital Assets, net 250,109,030
Other Noncurrent Assets 21,854,141
TOTAL ASSETS $ 300,905,309

LIABILITIES
Current Liabilities $ 24,143,524
Noncurrent Liabilities 62,744,728
TOTAL LIABILITIES $ 106,888,252

NET ASSETS
Investments in capital assets, net of related debt $ 168,275,083
Other net assets, restricted and unrestricted 31,791,974
TOTAL NET ASSETS $ 200,067,057

General Fund and Current Fund FY11
(in thousands)

<table>
<thead>
<tr>
<th>General Fund</th>
<th>Current Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Original</td>
</tr>
<tr>
<td>Revenue</td>
<td>$ 158,890</td>
</tr>
<tr>
<td>Expense</td>
<td>($158,890)</td>
</tr>
<tr>
<td>Net Income</td>
<td>($ - )</td>
</tr>
<tr>
<td>Fund Balances</td>
<td>($11,260)</td>
</tr>
</tbody>
</table>

9468
10/06/11
Mr. Steve Peacock of Rehmann Robson, reported on the 2010-2011 external audit. Rehmann Robson will be issuing an unqualified opinion, which is the highest level of assurance regarding the financial statements, and there were no findings to report. The A-133 audit is near completion and there are no findings to report. In addition, Mr. Peacock reviewed the management letter and indicated that there were some small internal control recommendations, and that management has addressed those recommendations. Mr. Peacock thanked all of the individuals Michigan Tech who were involved with the audit for their efforts.

IV. CONSENT AGENDA

It was moved by J. Fream, supported by P Ollila, and passed by voice vote without dissent, that the Board of Control approve and adopt the items contained in the Consent Agenda.
IV-A. Approval of Minutes

It was moved by J. Fream, supported by P. Ollila, and passed by voice vote without dissent, that the minutes of the formal session of August 4, 2011, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by J. Fream, supported by P. Ollila, 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 201112

Bachelor of Arts in Communication and Culture Studies
  Katherine Renee Barnt
  Alanna Knapp - Cum Laude

Bachelor of Arts in Theatre and Entertainment Technology
  Simone Kenlyn Boicourt

Bachelor of Arts in Scientific and Technical Communication
  Christina Maree Irwin

Bachelor of Science in Business Administration
  Veronica Lynne Armstrong
  Ningyi Huang
  Ibrahim Syarikin Ndaou
  Ellen Claire Nesbitt
  Andrew J Radford
  Sidney William Rosen
  Ellen Marie Sherry
  Chen Sun
  Bowen Tong

Bachelor of Science in Finance
  Tulong Chen
  Wei He - Summa Cum Laude
  Max R Pertile

Bachelor of Science in Marketing
  Britney Shirley-May Estola
Bachelor of Science in Biomedical Engineering
Travis John Ommodt

Bachelor of Science in Civil Engineering
Terris Anderson
Jacob Anthony Crispo
Hans Peter Haapala - Cum Laude
Brandt J Homik
Qilong Hu
Benjamin Jon Longmire
David Gregory Miscisin
Anthony Warren Pericolosi
Benjamin P Sheff
Colin Michael Singleton - Cum Laude
Jeremiah John Stewart
Alexandar G Vasquez
Alisha Marie Widdis

Bachelor of Science in Chemical Engineering
Wilbel J Brewer
Jacob Stephen Frye
Joshua M Kosmowski
Mengya Li - Cum Laude
Daniel R Woldring - Magna Cum Laude

Bachelor of Science in Electrical Engineering
Jared J Helminen
Levon J Luther
Fnu Tushar
Aaron J Wendzel
Mingfeng Zhang
Zijian Zhang

Bachelor of Science in Environmental Engineering
Jenna Lauren Parker
Kimberly Joan Podjun
Erin Valdivia - Cum Laude
Kevin Thomas Vayko

Bachelor of Science in Geological Engineering
Matt Ryan Beyer
Alec J Walker

Bachelor of Science in Geology
James Aron Juip
Jeremy Michael Loucks
Daniel Mark Nida
Bachelor of Science in Mechanical Engineering
   Brandon Scott Armstrong
   Hasti Asayesh Ardakani - Magna Cum Laude
   Megan C Beyer
   Michael David Engesath - Magna Cum Laude
   Kane A Johnson
   Levi A Miller
   Colin J Neese
   Jordan Keller Porter
   Jeffrey R Schumacher
   Paul F Shenkosky
   Craig VanSickle
   Dale Patrick Wawrzyniec - Magna Cum Laude

Bachelor of Science in Materials Science and Engineering
   Andrew Bernhard Heikkinen

Bachelor of Science in Forestry
   Rebecca Lynn Anderson

Bachelor of Science in Wildlife Ecology and Management
   Elizabeth Catharine Banda
   Aaron Neil Wuori - Cum Laude

Bachelor of Science in Biological Sciences
   Michael Allen Nagel
   Margarita Antoinette Nieskes - Cum Laude
   Kimberly Joan Podjun
   Shanshan Zhou - Cum Laude

Bachelor of Science in Pharmaceutical Chemistry
   Andrew Joseph Dorton

Bachelor of Science in Clinical Laboratory Science
   Lauren Mead Gray

Bachelor of Science in Computer Science
   Jon D Ensminger
   Yanliang Gu
   Ryan Carey McMahon
   Melinda S Todd
   Konstantin Zhuravlyov

Bachelor of Science in Computer Systems Science
   Jason Robert Brown

Bachelor of Science in Exercise Science
   Jessica Lynn Hietala
Kristen Elizabeth Monahan  
Amanda Barbara Nixon  
Matthew S VanSumeren  

Bachelor of Science in Theatre and Entertainment Technology  
Franklin James Sopjes  

Bachelor of Science in Mathematics  
Andrew Thomas Grow - Cum Laude  
Brad Matthew Isaacson  
Travis John Ommodt  

Bachelor of Science in Biochemistry and Molecular Biology  
Jonathan E Luckett  

Bachelor of Science in Biochemistry and Molecular Biology  
Jie Chen  

Bachelor of Science in Psychology  
Corey Michael LaBissoniere  
Christie Lewis Otchingwanigan  
Nathalia Priscilla Alves Rondelli  
Adam James Weidner  

Bachelor of Science in Social Sciences  
Kara Cecilia Oikarinen - Cum Laude  
Maryann Wilcox - Cum Laude  

Bachelor of Science in Scientific and Technical Communication  
Stephen Ted Anderson  

Bachelor of Science in Construction Management  
Brett Michael Fales  
Nicole M Garvin  
Joshua David Roadman  

Bachelor of Science in Computer Network and System Admin  
Jonathan Quentin Askwig  
William Leslie Ball  
Charles H Fraser  
Dione Stanley Garrett  
William A Hess - Cum Laude  
Christopher Paul Hoffman - Cum Laude  
Richard Glynn Lane  
Stephen C McLenithan  

Bachelor of Science in Electrical Engineering Technology  
Ashley Nicole Benjamin
Bachelor of Science in Industrial Technology
   Bruce Arnsman
   Aaron F Spalding

Bachelor of Science in Mechanical Engineering Technology
   Cong Liu - Cum Laude

Master of Business Administr. in Business Administration
   Pelinuor Pierre-Valery Bekwone Some
   Christopher William Didur
   Kasey Lee Hanninen
   Qike Hu
   William Michael Matson
   Justine Marie Pringle
   Erik A Stolberg
   Cong Zhou

Master of Engineering in Engineering
   Hsien-Yi Huang
   Yan Yang

Master of Engineering in Civil Engineering
   Ingrid Ann Sandberg

Master of Science in Applied Natural Resource Economics
   Xiayi Huang
   Brandon James Swartz

Master of Science in Civil Engineering
   Jason Curtis Flietstra
   Rita Elizabeth Lederle
   Fletcher Anthony McKenzie
   Luke Vermeulen

Master of Science in Chemical Engineering
   Suresh Babu Bommineni
   Chaiyaporn Wattanaprayoorn

Master of Science in Computer Engineering
   Kevin Arthur Trombly

Master of Science in Electrical Engineering
   Matthew Dean Howard
   Changyu Sun
   Yohannes Zewge Tafesse
   Yuchi Zhang
Master of Science in Environmental Engineering
   Nawaf Isam Ahmed Blaisi
   Lijun Chen
   Matthew David Seib
   Mark F Weise

Master of Science in Environmental Engineering Science
   Claudia Andrea Toro Vergara

Master of Science in Geology
   Kyle Arthur Brill
   Robert Fraincis Hegemann

Master of Science in Mechanical Engineering
   Neelima Krishna Murthy Addanki
   Nikhil Kaushik Anand
   Greeshma Gopinath
   Venkata Surya Prakash Rao Gunjari
   Pankaj Ankush Jagadale
   Vivek Singh Jaryal
   Adam Roger Kantor
   Sushant More
   Michael Paul Norconk
   Nishith Nitin Parikh
   Siddharth Haribhai Patel
   Aamod Sarvodaya Pethe
   Jennifer Potter
   Anurag Rajan
   Jonathan Alan Salzman
   James Robert Thunes
   Eddy Howard Trinklein
   Joseph Charles Wlodyka
   Michael Wyatt

Master of Science in Materials Science and Engineering
   Andrew Hamilton Baker
   Justin Tyler Clark
   Meghan Marie Haycock
   Pubodee Ratana-arsanarom

Master of Science in Applied Ecology
   Benjamin Will Betterly
   Daniel Yeboah

Master of Science in Forest Ecology and Management
   Christopher Paul Johnson
Master of Science in Forestry
    Michelle Cisz

Master of Science in Applied Science Education
    John Michael Asiala
    Wendelien K Benya
    Deborah Suzann Corriveau
    Nicole Noelle Olszowy
    Erich William Ziegler

Master of Science in Biological Sciences
    Danielle Haak

Master of Science in Chemistry
    Jeffrey Paul LeClair

Master of Science in Computer Science
    Dustin F Larson
    Richard Donald Pringle
    Justin R Slepak

Master of Science in Mathematical Sciences
    Ling Guo
    Michael Li Misson

Master of Science in Physics
    Douglas Robert Banyai
    Jessica Gayle Galbraith-Frew
    Amir Shahmoradi

Master of Science in Rhetoric and Technical Communication
    Shaughn Donald Kern
    Lucus Albert Palosaari

Master of Science in Environmental Policy
    Ellis Adjei Adams

Master of Science in Industrial Archaeology
    James Arthur Rudkin
    Brandon A Sexton

Doctor of Philosophy in Civil Engineering
    Christopher G Gilbertson
    Fredline Ilorme
    Yu Liu
    Yinghong Qin
It was moved by J. Fream, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control acknowledges the gifts to Michigan Technological University.
IV-D. Resignations, Retirements & Off Payroll

It was moved by J. Fream, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control accepts the resignations and confirms the off payroll determinations.
# BOARD OF CONTROL OFF-PAYROLL REPORT
## (July 10, 2011 – September 03, 2011)

## Faculty

<table>
<thead>
<tr>
<th>OFF-PAYROLL</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davis, Brian</td>
<td>School of Technology</td>
<td>Assistant Professor</td>
<td>01/07/01</td>
<td>08/06/11</td>
</tr>
<tr>
<td>Feng, Qingfu</td>
<td>Mathematical Sciences</td>
<td>Visiting Assistant Professor</td>
<td>08/09/09</td>
<td>08/07/11</td>
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<tr>
<td>Jaraki, Gail</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/18/08</td>
<td>08/06/11</td>
</tr>
<tr>
<td>Kilpela, Gary</td>
<td>Cognitive &amp; Learning Sci</td>
<td>Visiting Assistant Professor</td>
<td>08/16/09</td>
<td>08/06/11</td>
</tr>
<tr>
<td>LaBine, Paul</td>
<td>Mathematical Sciences</td>
<td>Instructor</td>
<td>08/24/08</td>
<td>08/06/11</td>
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<tr>
<td>Liimakka, Robert</td>
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<td>Assistant Professor</td>
<td>12/26/05</td>
<td>08/06/11</td>
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<tr>
<td>Loukus, Josh</td>
<td>ME-EM</td>
<td>Instructor</td>
<td>08/07/08</td>
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<tr>
<td>Mejame, Charley</td>
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<td>Merkey, Phillip</td>
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<tr>
<td>Nienkamp, Paul</td>
<td>Social Sciences</td>
<td>Visiting Assistant Professor</td>
<td>08/17/08</td>
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<tr>
<td>Ozkan, Sibel</td>
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<td>Visiting Assistant Professor</td>
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<tr>
<td>Qu, Bo</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/16/10</td>
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<tr>
<td>Rodick, David</td>
<td>Humanities</td>
<td>Visiting Assistant Professor</td>
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## RESIGNATION

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<tbody>
<tr>
<td>Chen, Huann-Sheng</td>
<td>Mathematical Sciences</td>
<td>08/23/98</td>
<td>08/14/11</td>
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<tr>
<td>Hansmann, Ulrich</td>
<td>Physics</td>
<td>03/02/98</td>
<td>08/16/11</td>
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<tr>
<td>Keith, Jason</td>
<td>Chemical Engineering</td>
<td>08/20/00</td>
<td>08/15/11</td>
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<tr>
<td>Mukherjee, Abhijit</td>
<td>ME-EM</td>
<td>08/21/06</td>
<td>08/10/11</td>
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<tr>
<td>Sorby, Sheryl</td>
<td>ME-EM</td>
<td>09/01/85</td>
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## RETIREMENT

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<tbody>
<tr>
<td>Alkire, Bernard</td>
<td>Civil &amp; Env Eng</td>
<td>09/16/11</td>
<td>08/15/11</td>
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<tr>
<td>Beske-Diehl, Suzanne</td>
<td>Geo &amp; Mining Eng &amp; Sci</td>
<td>08/28/79</td>
<td>08/31/11</td>
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<tr>
<td>Carlson, Eunice</td>
<td>Biological Sciences</td>
<td>09/21/90</td>
<td>08/12/11</td>
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<td>Diehl, Jimmy</td>
<td>Geo &amp; Mining Eng &amp; Sci</td>
<td>08/28/79</td>
<td>08/31/11</td>
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<tr>
<td>Gratz, Ronald</td>
<td>Biological Sciences</td>
<td>08/29/78</td>
<td>08/31/11</td>
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<td>Keen, Robert</td>
<td>Biological Sciences</td>
<td>08/30/77</td>
<td>08/01/11</td>
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<td>Lewis, Gilbert</td>
<td>Mathematical Sciences</td>
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<td>08/11/11</td>
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## Staff

## EXEMPT

<table>
<thead>
<tr>
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<tr>
<td>Grohowski, Andrew</td>
<td>University Marketing &amp; Comm</td>
<td>08/20/08</td>
<td>07/15/11</td>
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<tr>
<td>Hodges, Trevor</td>
<td>Sponsored Programs Office</td>
<td>05/11/09</td>
<td>07/22/11</td>
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<tr>
<td>Keefauver, David</td>
<td>MTRI</td>
<td>10/01/06</td>
<td>08/16/11</td>
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<tr>
<td>Kilpela, Mark</td>
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<td>07/15/11</td>
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<td>Melton, Gloria</td>
<td>Office of Student Affairs</td>
<td>08/20/89</td>
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<td>Roth, Ann</td>
<td>VP for Administration Office</td>
<td>05/19/80</td>
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## EXEMPT-PT

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<tr>
<td>Chalgren, Joanne</td>
<td>School of Business &amp; Econ</td>
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## NON-EXEMPT

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<tr>
<td>Chaput, Glen</td>
<td>Housing – Facilities</td>
<td>05/26/76</td>
<td>07/31/11</td>
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<td>Pearson, Dale</td>
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<td>Rowe, Robert</td>
<td>ME-EM</td>
<td>02/01/99</td>
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<td>Sandretto, Sharon</td>
<td>Forest Res &amp; Env Sci</td>
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<td>07/29/11</td>
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<td>NON-EXEMPT-PT</td>
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<td>Hire Date</td>
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<tr>
<td>Johnson, Ramona</td>
<td>Public Safety &amp; Police Serv</td>
<td>Operator Dispatcher</td>
<td>06/27/11</td>
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<tr>
<td>Yang, Xuna</td>
<td>Chemical Engineering</td>
<td>Staff Assistant</td>
<td>08/01/08</td>
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<tr>
<td>COACH</td>
<td>Department</td>
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<td>Hire Date</td>
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<tr>
<td></td>
<td>General Athletics</td>
<td>Assistant Coach Hockey</td>
<td>07/01/04</td>
</tr>
<tr>
<td>Mikesch, Patrick</td>
<td>General Athletics</td>
<td>Head Coach Hockey</td>
<td>06/01/03</td>
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<tr>
<td>Russell, James</td>
<td>General Athletics</td>
<td></td>
<td></td>
</tr>
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**IV-E. 2012 Meeting Dates**

It was moved by J. Fream, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control approves the meeting dates as presented.

- Thursday, February 23, 2012
- Friday, April 27, 2012 (Commencement – Saturday, April 28)
- Thursday, August 2, 2012 (Alumni Reunion)
- Thursday, October 4, 2012
- Friday, December 14, 2012 (Commencement – Saturday, December 15)

The meetings will begin at 9:00 a.m.

**V. ACTION/DISCUSSION ITEMS**

**V-A. Employee Recognition**

It was moved by T. Woychowski, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control adopts the Resolution of the Board of Control of Michigan Technological University In Appreciation for the following individuals:

1.) Eunice Carlson – 41 Years of Service
2.) Bernard Alkire – 40 Years of Service
3.) Mark Kilpela – 36 Years of Service
4.) Glen Chaput – 35 Years of Service
Michigan Technological University
HOUGHTON, MICHIGAN

Board of Control of Michigan Technological University
In appreciation

Eunice Carlson

The Board of Control of Michigan Technological University at its meeting on the sixth day of the month of October in the Year Two Thousand and Eleven year declared that:

WHEREAS Eunice Carlson, a citizen of the State of Michigan, has honorably and dutifully served Michigan Technological University and its constituents, and

WHEREAS her service to Michigan Technological University was for a period of forty-one productive years and

WHEREAS her 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 Board of Control extends appreciation and congratulations to this distinguished citizen and employee of Michigan Technological University.

[Signatures]

Michigan Technological University
HOUGHTON, MICHIGAN

Board of Control of Michigan Technological University
In appreciation

Bernard Alkire

The Board of Control of Michigan Technological University at its meeting on the sixth day of the month of October in the Year Two Thousand and Eleven year declared that:

WHEREAS Bernard Alkire, a citizen of the State of Michigan, has honorably and dutifully served Michigan Technological University and its constituents, and

WHEREAS her service to Michigan Technological University was for a period of forty 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 Board of Control extends appreciation and congratulations to this distinguished citizen and employee of Michigan Technological University.

[Signatures]
Michigan Technological University
Houghton Michigan

Board of Control of Michigan Technological University

In appreciation

Mark Kilpela

The Board of Control of Michigan Technological University at its meeting on the sixtieth day of the month of October in the Year Thousand and Eleven did declare that:

WHEREAS Mark Kilpela, a citizen of the State of Michigan, has honorably and faithfully served Michigan Technological University and its constituents;

WHEREAS his service to Michigan Technological University was for a period of thirty-five productive years, and

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

RESOLVED that the Board of Control extends appreciation and congratulations to this distinguished citizen and employee of Michigan Technological University.

[Signature]

Chairman, Board of Control

Glen Chaput

Michigan Technological University
Houghton Michigan

Board of Control of Michigan Technological University

In appreciation

Glen Chaput

The Board of Control of Michigan Technological University at its meeting on the sixtieth day of the month of October in the Year Thousand and Eleven did declare that:

WHEREAS Glen Chaput, a citizen of the State of Michigan, has honorably and faithfully served Michigan Technological University and its constituents;

WHEREAS his service to Michigan Technological University was for a period of thirty-five productive years, and

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

RESOLVED that the Board of Control extends appreciation and congratulations to this distinguished citizen and employee of Michigan Technological University.

[Signature]

Chairman, Board of Control
V-B. 2013 Capital Outlay Budget Request

It was moved by K. Clark, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Control approves the 2013 Capital Outlay Budget Request to be submitted to the State of Michigan.

<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>Next Generation Energy Complex</td>
<td>60,400</td>
<td>24,900</td>
<td>29,500</td>
<td>22,125</td>
<td>7,375</td>
<td>2013 – 2015</td>
</tr>
<tr>
<td>2</td>
<td>Human Health Research Center</td>
<td>100,000</td>
<td></td>
<td>35,000</td>
<td>26,250</td>
<td>8,750</td>
<td>2015 - 2017</td>
</tr>
<tr>
<td>3</td>
<td>Manufacturing Center</td>
<td>45,000</td>
<td>20,000</td>
<td>21,000</td>
<td>$15,750</td>
<td>5,250</td>
<td>2016 - 2018</td>
</tr>
</tbody>
</table>

Status of On-Going Projects:

Great Lakes Research Center – anticipated completion in Spring of 2012.

Capital Project Descriptions:

**Next Generation Energy Complex**

The University proposes an interdisciplinary project that will strategically bridge next generation energy engineering, science, economics and policy. The total project cost is estimated at $29,500,000. It will include expansion of existing structures, and the renovation/repurposing of other facilities. The construction of a bio-mass co-generation facility would be added to our existing heating plant. Dillman Hall would be renovated to provide space for the study of energy efficient buildings, building materials, transportation, and electrification. An addition and remodel in Fisher Hall would support graduate student and lab space for basic energy and material research. A remodel and repurposing of space in the Academic Office Building would provide space for education in treaties, carbon markets, property and environmental laws, social and economic impacts, and energy policy.

**Human Health Research Center**

The construction of a new facility is proposed that will accommodate health-related science and engineering, technologies, and medical informatics. The new 100,000 square feet facility at an estimated cost of $35,000,000 will strategically support Michigan Tech’s investment in human health research and will foster interdisciplinary and multi-scale approaches coupled with new technological tools. This Center will bring together key
faculty from Bioengineering, Biomaterials, Biomechanics, Biochemistry, Cell Biology, Physiology, Human Factors, Medical Informatics and Statistical Genetics. It will bring together existing University health-related units to increase number of health-related research on campus and to enhance undergraduate and graduate education.

**Manufacturing Research Center**

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 $21,000,000. The addition is planned to meet the manufacturing learning 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.

Mr. Woychowski commented that the issue of parking was discussed at the breakfast the Board had with the students before the meeting. President Mroz pointed out that the University has hired a consultant to study transportation issues including parking. Mr. Woychowski suggested that the Administration may want to communicate with the student body at large about the University’s efforts in addressing parking on campus.

**V-C. Policy 15.3. Off-Semester Compensation Under Sponsored Agreements**

In 2007, the President commissioned a group of key University professionals to develop policies and procedures that would ensure the University’s compliance with Office of Management and Budget (OMB) Circular A-21. After discussions with the Executive Team, Deans/Chairs, and the Senate Executive Committee, University Policies and Procedures were established that provide a basis for ensuring compliance with regards to additional compensation in excess of institutional base salary under certain circumstances. Regular faculty members with an academic year appointment may be granted summer appointments for teaching, research or service during the off –semester period. Board of Control Policy 15.3 Off-Semester Compensation under Sponsored Agreements is not clear and does not include all of the situations that may arise, and in some cases it is not in compliance with federal regulations, therefore the Administration is recommending that Board of Control policy 15.3 be rescinded.

It was moved by L. Ashford, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control rescinds Board of Control policy 15.3. Off-Semester Compensation under Sponsored Agreements in its entirety.
V-D. Emeritus Rank

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

1.) Dr. Charles W. Nelson, Professor Emeritus, Department of Humanities

V-E. Honorary Degree

Mr. Chang K. Park is President and CEO of Universal Remote Control Inc. located in Harrison, NY. Mr. Park founded the company in 1991 and Universal Remote Control has become one of the world’s leading suppliers of remote controls and other wireless input devices for the consumer audio/video equipment, OEM, and subscription broadcasting markets. Mr. Park received electrical engineering and business engineering administration degrees from Michigan Tech in 1973. He will give the Fall 2011 Commencement Address on December 10.

It was moved by J. Fream, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate Degree of Philosophy to Chang K. Park.

VI. REPORTS

A. Michigan Tech Fund Report – Mr. Shea McGrew, Vice President for Advancement
B. University Senate Report – Dr. Rudy Luck, President
C. Undergraduate Student Government Report – Mr. Beau Baldwin, President
D. Graduate Student Government Report – Ms. Margo Woller-Carter, President
E. Enrollment Report – Dr. Les Cook, Vice President for Student Affairs
F. FY11 Year-End Research Report – Dr. David Reed, Vice President for Research

Copies of these reports were included in the agenda book.

During Mr. McGrew’s report, Mr. Terry Woychowski presented President Mroz with a $160,000 check from the GM Foundation. The gift will fund a variety of student activities. Among them are the Advanced Hybrid Electric Vehicle and Advanced Motorsports Enterprises, several Senior Design teams and student groups, and diversity programs.

President Mroz stated that Michigan Tech is very fortunate to have General Motors as a partner in these endeavors, and that thousands of alumni and students have benefited from GM's support of our programs.

Mr. Woychowski stated that these donations from the GM Foundation are further evidence of the value that General Motors places on its relationship with Michigan Tech, from its research and development to the education of our engineers.
VII. INFORMATIONAL ITEMS  
   A. Analysis of Investments  
   B. University Issued Bond Balances  
   C. Research and Sponsored Programs  
   D. Advancement Report  
   E. Recent Media Coverage  
   F. Employee Safety Statistics  
   G. Conflict of Interest Annual Report  

Mr. Woychowski commended Ellen Horsch and Theresa Coleman-Kaiser for the work that they have been doing to incorporate safety into the workplace and through the Lean process.

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 K. Clark, supported by J. Fream, and passed by voice vote without dissent, that the meeting be adjourned.

___________________________________  
Secretary of the Board of Control

___________________________________  
Chair, Board of Control