MINUTES

of the

Board of Control

Michigan Technological University

Houghton, Michigan

Meeting of

October 6, 2011

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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 News & World Report's 2012 edition of "Best Colleges."

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 unites 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.

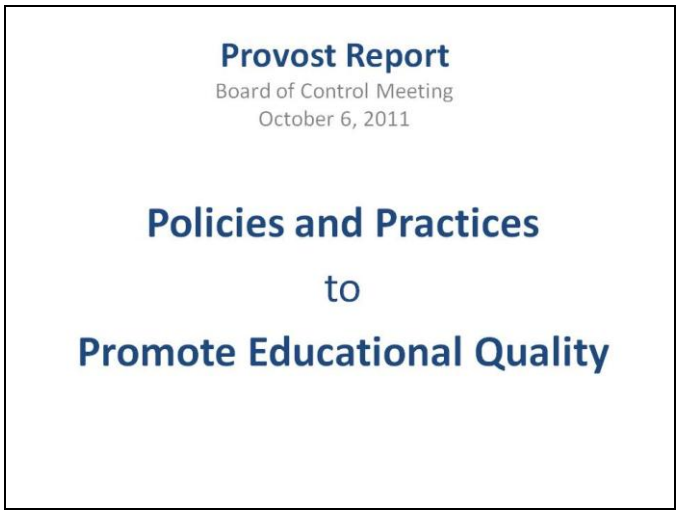
We touched upon trade-offs between transferring knowledge and discovering new knowledge, higher education's two main missions. It is difficult to summarize the whole discussion, but in the end, there was consensus about the following:

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:



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.mtu.edu/aqip/systems-portfolio/systems-portfolio-about/

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- 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 **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: **AACSB**
extended for 5 y in 4/2011

Assurance of Learning Methodology: recognized as best practice

Teaching Evaluations

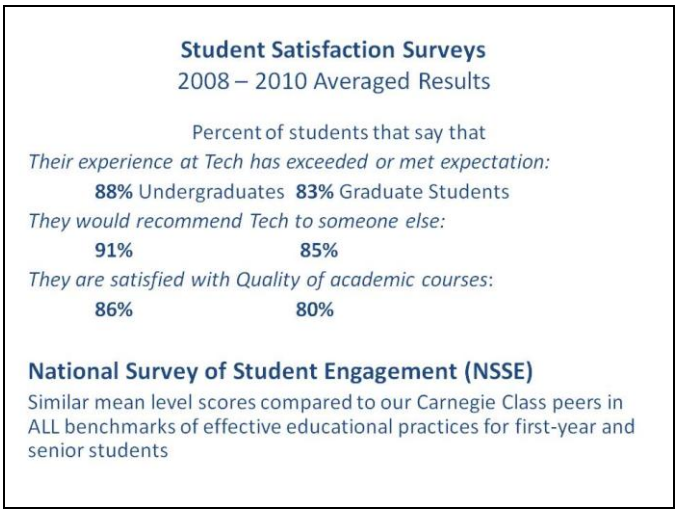
TEACHING EFFECTIVENESS EVALUATIONS

"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.

MichiganTech

Financial Report
Board of Control Meeting

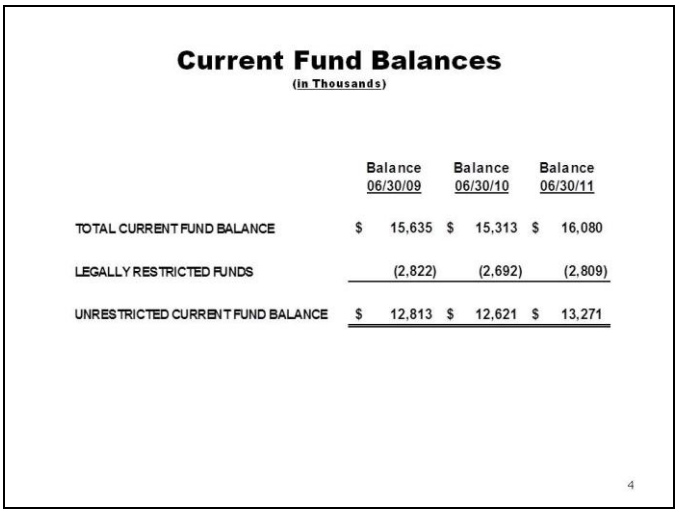
Thursday, October 6, 2011

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

ASSETS	
Current Assets	$ 35,342,138
Noncurrent Assets:	
Capital Assets, net	250,109,030
Other Noncurrent Assets	21,504,141
TOTAL ASSETS	$ 306,955,309
LIABILITIES	
Current Liabilities	$ 24,143,524
Noncurrent Liabilities	82,744,728
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)

	General Fund		Current Fund	
	Original Budget	Final Actual	Original Projection	Final Actual
REVENUE	$ 158,890	$ 157,911	$ 245,429	$ 249,161
EXPENSE	$ (158,890)	$ (157,650)	$ (245,218)	$ (248,394)
NET INCOME	$ -	$ 261	$ 211	$ 767
Fund Balances	$ (11,260)	$ (10,999)	$ 15,524	$ 16,080



Current Fund Balances
(in Thousands)

	Balance 06/30/09	Balance 06/30/10	Balance 06/30/11
TOTAL CURRENT FUND BALANCE	$ 15,635	$ 15,313	$ 16,080
LEGALLY RESTRICTED FUNDS	(2,822)	(2,692)	(2,809)
UNRESTRICTED CURRENT FUND BALANCE	$ 12,813	$ 12,621	$ 13,271

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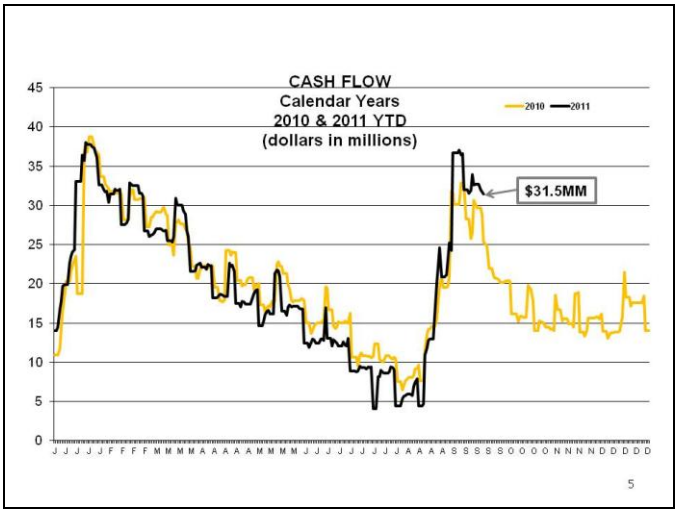

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Mr. Steve Peacock of Rehmann Robson, reported on the 2010-2011 external audit. Rehmann Robson will be issuing an unqualified opinion, which is the highest level of assurance regarding the financial statements, and there were no findings to report. 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 Wattanaprayoon

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

Doctor of Philosophy in Chemical Engineering
Di Huang
Daniel Lopez-Gaxiola

Doctor of Philosophy in Electrical Engineering
Rui Liao
Wenjie Xu
Chao Zou

Doctor of Philosophy in Geophysics
John Joseph Lyons

Doctor of Philosophy in Materials Science and Engineering
Lei Zhang

Doctor of Philosophy in Engineering - Environmental Engineering
Sinan Ayad Abood Itraija

Doctor of Philosophy in Forest Science
Michelle Elise Latsch

Doctor of Philosophy in Mechanical Engr - Engr Mechanics
Mehmet Murat Altug Bicak
Ahmed Hamdy Gad El Sayed Gad
Jaclyn Elyse Johnson
Jorge Hiroshi Kurita Nagasawa
Kasra Momeni
Jerry Lee Ross

Doctor of Philosophy in Computer Science
Weiming Zhao

Doctor of Philosophy in Physics
Partha Pratim Pal

Doctor of Philosophy in Rhetoric and Technical Communication
Heather Lynn Hoffman Jordan
Ethan Timothy Jordan
Christy M Oslund

IV-C. Gifts

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.

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2011 through August 31, 2011
Compared to Prior Year

Source	Goal	FY12 YTD Total	% YTD	FY11 YTD Total	FY11 Total
Individuals - Major Gifts (25K and up)	7,500,000	35,000	0%	150,970	5,380,974
Realized Planned Gifts (Unanticipated - 25K and up		0		0	391,554
Individuals - non-Major Gifts	1,920,000	160,868	8%	155,462	1,487,086
Full Value New Planned Gift Commitments	11,600,000	3,398,432	29%	0	13,920,508
Annual Fund	1,480,000	257,144	17%	116,919	1,442,552
Corporations	3,000,000	164,592	5%	383,851	1,568,217
Foundations & Other Organizations	550,000	22,099	4%	18,439	461,937
Gifts-in-Kind	950,000	2,883	0%	477,896	701,641
Grand Total	**27,000,000**	**4,041,017**	**15%**	**1,303,537**	**25,354,468**

-- Except for the Annual Fund, all totals include outright gifts and the full amount of new pledge commitments
-- Annual Fund includes cash from prior year pledges in addition to outright current year gifts and new pledge commitments due current year
-- An individual's gifts given through another source (i.e. family foundation or closely held business) are credited to the individual

Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2011 through August 31, 2011
Compared to Prior Year

Gift Type	FY12 YTD Total	FY11 YTD Total	$ Change from Previous Fiscal Year	% Change from Previous Fiscal Year
Cash (current year)	443,643	435,393	8,250	1.9%
Realized Planned Gifts (current year)	1,243	0	1,243	0.0%
Current Year Subtotal	**444,886**	**435,393**	**9,493**	**2.2%**
Cash (receipts from prior year pledges)	683,922	98,537	585,386	594.1%
Realized Planned Gifts (previously recorded)	3,432	0	3,432	0.0%
Receipts from Previous Year Subtotal	**687,354**	**98,537**	**588,818**	**597.6%**
Total	**1,132,240**	**533,930**	**598,311**	**112.1%**

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

OFF-PAYROLL	Department	Title	Hire Date	Term Date
Davis, Brian	School of Technology	Assistant Professor	01/07/01	08/06/11
Feng, Qingfu	Mathematical Sciences	Visiting Assistant Professor	08/09/09	08/07/11
Jaraki, Gail	Humanities	Instructor	08/18/08	08/06/11
Kilpela, Gary	Cognitive & Learning Sci	Visiting Assistant Professor	08/16/09	08/06/11
LaBine, Paul	Mathematical Sciences	Instructor	08/24/08	08/06/11
Liimakka, Robert	School of Technology	Assistant Professor	12/26/05	08/06/11
Loukus, Josh	ME-EM	Instructor	08/07/08	08/13/11
Mejame, Charley	Humanities	Visiting Assistant Professor	08/16/10	08/06/11
Merkey, Phillip	Mathematical Sciences	Assistant Professor	11/01/99	08/06/11
Nienkamp, Paul	Social Sciences	Visiting Assistant Professor	08/17/08	08/06/11
Ozkan, Sibel	Mathematical Sciences	Visiting Assistant Professor	08/18/08	08/06/11
Qu, Bo	Humanities	Instructor	08/16/10	08/06/11
Rodick, David	Humanities	Visiting Assistant Professor	08/16/10	08/06/11

RESIGNATION	Department	Title	Hire Date	Term Date
Chen, Huann-Sheng	Mathematical Sciences	Associate Professor	08/23/98	08/14/11
Hansmann, Ulrich	Physics	Professor	03/02/98	08/16/11
Keith, Jason	Chemical Engineering	Associate Professor	08/20/00	08/15/11
Mukherjee, Abhijit	ME-EM	Assistant Professor	08/21/06	08/10/11
Sorby, Sheryl	ME-EM	Professor	09/01/85	08/31/11

RETIREMENT	Department	Title	Hire Date	Term Date
Alkire, Bernard	Civil & Env Eng	Professor	09/16/71	08/15/11
Beske-Diehl, Suzanne	Geo & Mining Eng & Sci	Professor	08/28/79	08/31/11
Carlson, Eunice	Biological Sciences	Professor	09/21/70	08/12/11
Diehl, Jimmy	Geo & Mining Eng & Sci	Professor	08/28/79	08/31/11
Gratz, Ronald	Biological Sciences	Associate Professor	08/29/78	08/31/11
Keen, Robert	Biological Sciences	Associate Professor	08/30/77	08/01/11
Lewis, Gilbert	Mathematical Sciences	Associate Professor	08/30/77	08/11/11

Staff

EXEMPT	Department	Title	Hire Date	Term Date
Grohowski, Andrew	University Marketing & Comm	Web Marketing & Content Spec	08/20/08	07/15/11
Hodges, Trevor	Sponsored Programs Office	Assistant Grant Accountant	05/11/09	07/22/11
Keefauver, David	MTRI	Research Scientist I	10/01/06	08/16/11
Kilpela, Mark	Electrical & Computer Eng	Research Associate	10/06/75	07/15/11
Melton, Gloria	Office of Student Affairs	Dean of Student Affairs	08/20/89	08/31/11
Roth, Ann	VP for Administration Office	Policy & Procedure Coordinator	05/19/80	08/31/11

EXEMPT-PT	Department	Title	Hire Date	Term Date
Chalgren, Joanne	School of Business & Econ	Graduate Recruiter	08/17/09	07/20/11

NON-EXEMPT	Department	Title	Hire Date	Term Date
Chaput, Glen	Housing – Facilities	Building Mechanic II	05/26/76	07/31/11
Pearson, Dale	Housing – Facilities	Building Mechanic II	10/24/79	08/31/11
Rowe, Robert	ME-EM	Training Specialist Sr Design	02/01/99	07/31/11
Sandretto, Sharon	Forest Res & Env Sci	Executive Secretary	08/08/88	07/29/11

NON-EXEMPT-PT	Department	Title	Hire Date	Term Date
Johnson, Ramona	Public Safety & Police Serv	Operator Dispatcher	06/27/11	08/27/11
Yang, Xuna	Chemical Engineering	Staff Assistant	08/01/08	08/01/11

COACH	Department	Title	Hire Date	Term Date
Mikesch, Patrick	General Athletics	Assistant Coach Hockey	07/01/04	06/30/11
Russell, James	General Athletics	Head Coach Hockey	06/01/03	07/01/11

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 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.

Martha S. Richardson, Chair *Glenn D. Mroz, President*

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 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 his 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.

Martha S. Richardson, Chair *Glenn D. Mroz, President*

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 sixth day of the month of October in the Two Thousand and Eleven year declared that:

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

WHEREAS his service to Michigan Technological University was for a period of thirty-six 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.

Martha K. Richardson, Chair — *Glenn D. Mroz, President*

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 sixth day of the month of October in the Two Thousand and Eleven year declared that:

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

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 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.

Martha K. Richardson, Chair — *Glenn D. Mroz, President*

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.

Capital Project Prioritization Summary – FY 2013							
Rank	**Project Name**	**Gross Sq. Ft. New**	**Gross Sq. Ft. Renovated**	**Total Project Cost (000's)**	**State Funds (000's)**	**Est. Const. Univ. Funds (000's)**	**Start/End**
1	Next Generation Energy Complex	60,400	24,900	29,500	22,125	7,375	2013 – 2015
2	Human Health Research Center	100,000		35,000	26,250	8,750	2015 - 2017
3	Manufacturing Center	45,000	20,000	21,000	$15,750	5,250	2016 - 2018

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