

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

Meeting of
December 10, 2010

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MINUTES OF THE FORMAL SESSION OF THE BOARD OF CONTROL OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call in Ballroom B of the Memorial Union Building on the campus of Michigan Technological University in the City of Houghton, Michigan at eight thirty o'clock on the morning of December 10, 2010.

The Board of Control of Michigan Technological University met in formal session at the University's campus at Michigan Technological University in the City of Houghton, State of Michigan, at 8:30 a.m., on the 10th day of December, 2010, 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 (via telephone)
L. D. Ashford
T. L. Baldini
K. I. Clark
R. A. Gronevelt
P. G. Ollila
R. A. Reck
G. D. Mroz, ex officio

The following members were absent:

None

Also present during part or all of the session were: Dale R. Tahtinen, Secretary of the Board and Vice President for Governmental Relations; Daniel D. Greenlee, Treasurer and Chief Financial Officer; George Butvilas, Chair of the Michigan Tech Fund; Max Seel, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Shea McGrew, Vice President of Advancement and Marketing; 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

It was moved by R. Gronevelt, supported by K. Clark, and passed by voice vote without dissent, that the agenda of the formal session of December 10, 2010, as distributed to the Board, be approved.

II. OPENING REMARKS

Chair's Comments

I would like to welcome everyone to today's Board of Control meeting and to this Commencement weekend celebration of achievement and success. This is always a special and exciting time of the year, as we honor our graduates and their families. I would also like to welcome George Butvilas, Chairman of the Michigan Tech Fund and thank him for taking time from his schedule to attend our meeting.

I would also like to take a few minutes to recognize Ruth and Russ as this will be their last Board meeting. Later in the meeting we will be voting on a highly deserved resolution of appreciation for each of them, but I wanted to thank them both for their hard work and dedication along with their willingness to share their wealth of experience and knowledge. We are sad to see their terms end, but wish them the best in their future endeavors.

Here are a few highlights of some of the awards and special activities that have taken place since our last meeting.

Raymond Shaw, Will Cantrell, and Claudio Mazzoleni of Physics, Lynn Mazzoleni of Chemistry, Simon Carn and Bill Rose of Geology, and Paul Doskey, and Judith Perlinger of Civil and Environmental Engineering in association with the Earth, Planetary and Space Sciences Institute have received a \$1.3 million award from the National Science Foundation for their project MRI: Development of a Multiphase Reaction Chamber for Laboratory Studies of Atmospheric Aerosol and Cloud Processes. The Chamber will be located in the Great Lakes Research Center and will enable the study of cloud and aerosol particles in a controlled environment. "It will provide an idealization where specific mechanisms can be probed with repeatability. Aerosol-cloud-particle transformations and the chemical and turbulent processes that influence them are the scientific focus of this proposal. Among the broader impacts, the chamber will be an important addition to the United States scientific infrastructure." Congratulations and if any of these individuals are in the audience would you please stand and receive our appreciation.

Another incredible recognition of Michigan Tech occurred a week ago yesterday when a Michigan Tech paper at the Biennial Army Science Conference won best paper in the Nanotechnology Division. This meant that this paper entitled Nanoscale Bioelectronics for Real-Time Target Sensing, was one of the top 18 papers out of some 200 presented at the Conference. Some 850 papers were originally submitted in hopes of being selected for presentation from the United States and the NATO countries.

That was impressive, but the Michigan Tech nanotechnology paper was also selected as the best paper for the entire Army Science Conference – making it the number one paper overall and earning the highest possible award, the Paul A. Siple Memorial Award. Our major competition was other institutions such as MIT, Cal Tech, Georgia Tech, University of Michigan, RPI, Harvard, Princeton, and other similar universities. The lead author of the paper Mark Griep is a Ph.D. graduate from the ME-EM Department and was advised by Professor Craig Friedrich holder of the Richard and Bonnie Robbins Chair, and now Professor Emeritus Don Lueking from Biology. Dr. Friedrich was also a co-author of this paper as well as Eric Winder another Michigan Tech Ph.D. graduate who was advised by Dr. Friedrich and retired Professor John Adler in Biology. The final co-author is Dr. Shashi Karna a senior scientist at the Army Research Lab and a member of the ME-EM Department's External Advisory Board. To put this in perspective and to use an athletic analogy this would be the equivalent of winning the Super Bowl.

Dr. Jeff Naber, Associate Professor in the Department of Mechanical Engineering has been named a fellow by SAE, the Society of Automotive Engineers. Fellow is the SAE's highest grade of membership and recognizes important engineering, scientific and leadership achievements. Dr. Naber was selected based on his outstanding accomplishments in the research and development of engine control systems and diagnostics, as well as his significant contributions to engineering education.

Dr. Wayne Pennington, Chair of the Geological and Mining Engineering and Sciences Department, has been named president of the American Geological Institute. Dr. Pennington's other leadership roles include being the first vice president of the Society of Exploration Geophysicists in 2002-2003. The American Geological Institute is a nonprofit federation of 47 geoscientific and professional associations that represent more than 120,000 geologists, geophysicists and other earth scientists.

Michigan Tech's Concrete Canoe team placed in the top five at the National Concrete Canoe Competition in San Luis Obispo, California, which was held this past summer. This year's canoe, dubbed Yooper, weighed over 160 pounds, was 20 feet in length, and was made of a layer of 3/8 inch thick concrete. The canoe's specially formulated mix of cement must be less dense than water in order to keep it afloat – even with four team members aboard. The team comprised more than 30 members of many different majors – not just students in civil engineering. Sixteen universities competed in the competition which is hosted by the American Society of Civil Engineers. The competition provides students with the practical application of principles learned in the classroom.

Richard and Elizabeth Henes donated \$700,000 to upgrade research facilities in Fisher Hall, including infrastructure improvements. This latest gift from the Henes' will help to continue to build an outstanding physics department that is working at the cutting edge of modern physics. Michigan Tech currently has interdisciplinary strengths across the university in areas of quantum phenomena, largely nanotechnology and computing. This new gift will set the stage for greater emphasis in the area where quantum physics meets biology. This interdisciplinary work will define this century's advances in technology. It should also be noted that the Department of Physics is one of the most research-active departments in the College of Sciences and Arts, and three of Michigan Tech's last four annual faculty research awards have gone to physics researchers. In addition to thanking the Henes' for their

generous donation, the Board would also like to thank President Mroz for all his significant efforts in securing this gift and the leading role he has taken in the capital campaign.

We would also like to take this opportunity to congratulate President Mroz for receiving an award which was bestowed upon him by NASPA, a professional organization of student affairs administrators in higher education. NASPA honored President Mroz with its 2010 NASPA Region IV-East President's Award for his demonstrated leadership in higher education and valuable contributions to Michigan Tech. Congratulations to President Mroz for this outstanding honor and for your dedication and leadership in helping Michigan Tech create the future.

President's Comments

Members of the Board, Faculty, Staff, Students

First, I want to add my thanks to both Russ and Ruth for their service to Michigan Tech. The University has transformed under their guidance, changing the things that need to change, and recognizing that there are some things that should never change. Their wisdom has been critical to helping us all know the difference.

With the elections in the rearview mirror along with all the TV ads, radio ads, emails, blogs, twitters and robo-calls with claims of some sort or another, many are getting back to the critical issues of governance, as well as transitioning to newly elected officials and their new teams. While not nearly at the same level of hype as the elections themselves, this is a critical time with opinions being formed and priorities being set and there is a lot of trash talk on the political court.

But this is no game. As we know on this campus, setting priorities is serious, critical business because they determine how resources are allocated. In the past this has not worked out so well for government.

Consider the follow-up report from the Gathering Storm committee of national leaders....they've titled this one *Approaching Category 5*.

A few of the salient points that speak to our national priorities for Science and Engineering:

Total Annual Federal investment in research in math, the physical sciences, and engineering is now equal to the increase in US health care costs every 9 weeks.

The world economic forum ranks the U.S. 48th in the quality of math and science education.

This list could go on and on and on.

Not surprising then that:

In 2009, 51% of US patents were awarded to non US companies;

And at a time when we are talking about more budget cuts, United States consumers spend more on potato chips each year than the government devotes to energy R&D.

No wonder then that as we approach the winter solstice, 49% of U.S. adults don't know how long it takes for the earth to revolve around the sun.

But there is some indication that attitudes may be changing. In the election rhetoric, many in our State recognized that an educated workforce is a key to Michigan's future. This goes deeper than rhetoric. In a statewide survey of 500 households conducted early in September and October, 76% of respondents agreed that "everybody should get a college education." That compares with just 54% when the survey was first conducted in 2005.

37% of responding parents said a college education is "essential" for getting ahead, versus 27% in 2005, and 52% says it's "very important."

And the number of parents who agreed that "people who have a college education are usually better off than people who don't" increased to 78% in 2010 from 63% in 2005.

This change of heart is good! Right now, Michigan ranks 34th among the states with only 25% of adults with a 4 year degree. Not to put too fine a point on it...that's the bottom third. So, having Michiganders in greater support of degree attainment is a giant step in the right direction from 5 years ago.

But the task to increase this number is daunting. According to data from the Presidents Council for the State Universities in Michigan - Michigan is 49th in its support for higher education. While states like Utah spend \$3 on higher ed for every dollar it spends on corrections, Michigan spends 79 cents on higher ed for every dollar spent on corrections - and there are those who are clamoring to cut more. Funding has been cut 12% over the past 8 years, and when you correct for inflation, it's 37%. With increased enrollments, the universities are getting about 19% less per student statewide even before inflation is taken into account. Dale Stein, former Michigan Tech President was unfortunately spot-on 35 years ago when he said if we don't like the high cost of education, we are really not going to like the high cost of ignorance. 68% of Michigan's prison population lacks a high school degree.

This is the startling story that gets public attention. Here's the rest of the story that has to get out! High college matriculation rates are not in and of themselves the entire solution.

Every bit as important is the scientific and technological breakthroughs that cause dramatic increases in production and efficiency, whether that is through products like new engine technologies, less invasive procedures to treat knee injuries, or working to create bio-nano hybrid materials that capture light and convert it to electricity. The list can literally be endless, dependent only on the imaginations and skills of the people of Michigan and in particular, the faculty, staff, students and graduates of research universities like Michigan Tech- who through excellent education and technological innovation can attract the capital that will create the jobs that will change Michigan.

At Michigan Tech, we concentrate on our core strengths and values in this process to educate the future of Michigan. At this holiday season, it's easy to be immersed in the finer things in

life – our families. But remember that this is priority setting season for newly elected officials and those priorities will affect your families as well. Talk to them!

Let them know that as citizens of the United States, – we've liked the whole idea of the U.S. being first. Being the best. We'd like that to be the America for our children and grandchildren.

And let them know that it is critical to have priorities that match the aspirations that we remain a first rate country.

And that those priorities depend on having a more educated, innovative and entrepreneurial populace in the future.

Sending that message to your elected officials, to help them align their priorities, just might be the best gift you can give your children and grandchildren this Christmas.

Think about it.

Thank you.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

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

First on the agenda were a couple of proposed Board of Control policy changes in the ongoing process of having an up-to-date Board of Control policy manual. Some of these changes are simply editorial in nature, and some need more discussion. It was suggested that Board of Control policy changes need to be considered by both committees, the academic and the finance and audit committee. The full Board will consider these changes at its next meeting in February.

The Provost then discussed the approval process for new academic programs. Here at Michigan Tech, the Board first gives preliminary approval, then it goes to the Presidents Council of State Universities of Michigan where the Academic Affairs Officers of all Michigan Universities review all the proposed programs, and then it comes back one more time to the Board of Control for final approval. This is not Board policy, just past and current practice at Tech. We are the only university in Michigan doing it this way. That is, bringing a degree program twice to the Board. Everyone else brings a program proposal just once to the Board for approval, before it goes to the State.

We agree with the Provost and recommend that we follow from now on the practice of the other Michigan State universities and have only one Board approval of a new degree program, before it goes downstate to the Presidents Council. It would come back to the Board only if the Presidents Council review resulted in substantive changes. This will streamline the process and we gain up to three months in advertising a new degree program.

Next on the agenda was an appointment with tenure which requires Board of Control action: Dr. Ezra Bar-Ziv is being recommended for appointment as Professor with tenure in the Department of Mechanical Engineering-Engineering Mechanics, effective December 27, 2010. He is a proposed senior hire in the strategic faculty hiring initiative in *Next Generation Energy Systems*. Dr. Bar-Ziv is an internationally known expert in clean combustion. You have his impressive curriculum vitae in your agenda.

The appointment has the support of the department chair, the departmental promotion and college promotion and tenure committee, and the dean of the college of engineering. The Academic Affairs committee supports the recommendation and recommends approval of appointment as Professor with tenure for Dr. Bar-Ziv.

As an update to the capital outlay request which the Board of Control approved at the last meeting in September, the provost reported that Facilities Management submitted our request for a "Next Generation Energy Complex on December 1. However, our project was not included in the newest capital outlay bill. As everyone is aware, we are in the early stages of our latest capital outlay project, the Great Lakes Research Center, which will be completed in Spring 2012.

We then received an update on the Strategic Faculty Hiring Initiative. Details are given on the last 3 pages of the hand-out prepared for the Provost report. We believe that this initiative provides sharp strategic focus for reallocation and investments in Michigan Tech's programs and should be continued in the budget planning process.

As of last June, the faculty hires in the first two initiatives in *Sustainability* and *Computational Discovery and Innovation* have advised 40 graduate students, have served on 26 graduate committees, taught 32 undergraduate and 32 graduate courses, and were successful in receiving \$2.1 million dollars in external research funding. In the current round, in the second year of the *Energy* and *Health* initiatives, we received 364 applications for up to ten positions, almost evenly split between the two initiatives. 132 applicants passed the preliminary review, and the steering committees and the cognate reviewers are currently in the process of identifying the strongest 20 candidates who will be invited for a campus interview.

The rest of our meeting was dedicated to an update on the topic of improving student retention and graduation rates. We debated passionately about attrition, efficiency, productivity and more. Since this will be the topic of the Provost Report, I will stop here, unless there are any questions.

Provost Max Seel provided the Board with the following report.

Issues for 2010/2011 Central to the University's Academic Mission

Provost Report

Board of Regents Meeting
September 30, 2010
UPDATE December 10, 2010

Helping University Leaders Address Their Most Pressing Problems

The University of Michigan provides the provosts and presidential office to address campus and financial issues. Issues of the central campus universities. With focus on cost efficiency and student success. In addressing the most pressing issues, Michigan University provides a framework for addressing the most pressing issues. With findings from the research project on campus issues.

Michigan Tech's set = Common set of similar pressing issues
for all provosts/universities in 2010/11

- Improving Student Retention and Graduation Rates
- Maximizing Campus Space Utilization
- Making the Global Vision Real
- Taking Costs Out of the Academy/Cost Reduction – Revenue Enhancement
- Supporting Faculty Migration to Online and Blended Learning
- Capturing New Professional and Distance Education Markets

Improving Student Retention and Graduation Rates

1. Academic Advising Enhancement AQIP Project –

2010/11: AQIP team continues to work with Assistant Provost until
Assessment is concluded - in progress

2. Cost Study/Comparison:

\$ to recruit, \$ of financial aid, \$ per graduate

Caveat emptor – Buyer Beware!

Efficiency, Productivity <-> Mission of a University

Finishing the First Lap:

The Cost of First Year Student Attrition in America's Four Year Colleges and Universities (Mark Schneider, American Institute for Research)

Table 1: Five-Year Total Costs Incurred by First-Year Attrition (2003–2008)

All Four-Year Total Costs Incurred by First-Year Attrition

- State subsidies through appropriations \$6.18 billion
- State grants to students \$1.4 billion
- Federal grants to students \$1.5 billion

**Illustrative Michigan Tech Calculation –
Numbers from 2009-10 Fact Book**

State Appropriation A	\$49,518,500
Total Enrollment S	7,148 (1206 graduate, 5942 UG)
State Appropriation per Student A/S	\$6,927.6
New Freshmen	1,160
Retention Rate	81.8%

Number of Students who do not return $(1,160 - 1,160 \times 0.818) = 211$

Cost for State of Students who do not Return: $211 \times \$6,927.6 = \mathbf{\$1,462,555}$

[Different Way of Cost of Attrition Calculation (<http://collegemeasures.org>)
Cost per Student (FTE) : \$14,329 → $211 \times \$14,329 = \mathbf{\$3,023,419}$]

Cost for University:

Cost to Recruit per Enrolled Undergraduate: \$1,181

Average Gift per Freshman (all funds from the university which the student does not have to repay):

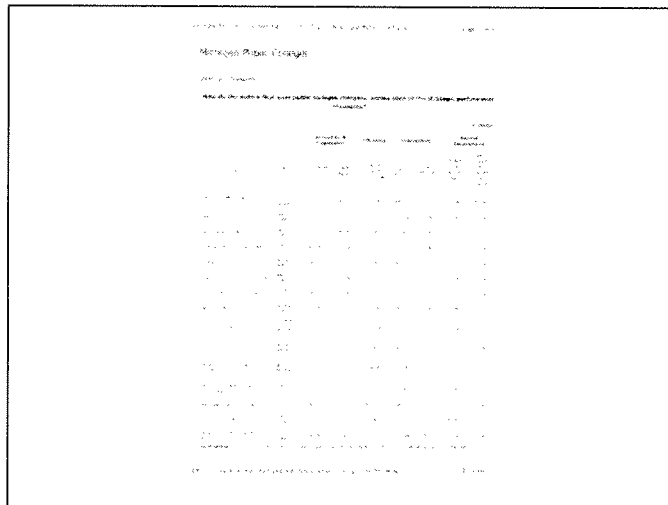
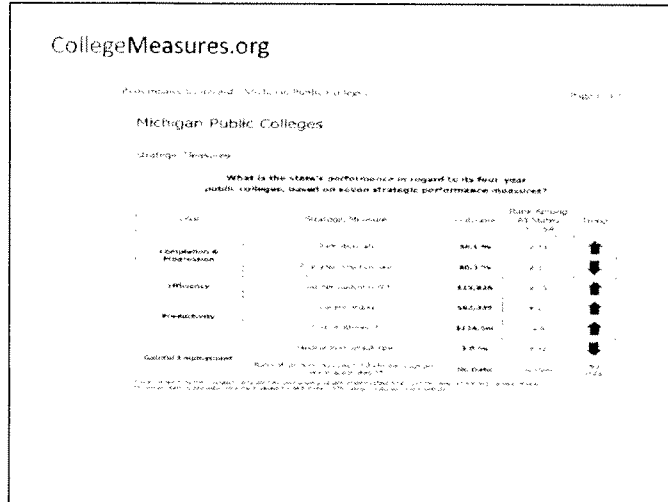
\$6,241

Cost for University of Students who do not Return:

$211 \times \$1,181 + 211 \times \$6,241 =$

$\$249,191 + \$1,316,851 = \mathbf{\$1,566,042}$

Student pay Tuition!



Median Starting Pay for Recent Graduates

Percentile	College	State	City	Type
90th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
85th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
80th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
75th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
70th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
65th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
60th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
55th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
50th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
45th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
40th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
35th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
30th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
25th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
20th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
15th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit
10th	University of Michigan	Michigan	Ann Arbor	Private not-for-profit

Source: College Measures.org. Data as of 12/10/10. © 2010 College Measures.org. All rights reserved.

Summary

Work on
retention rate;
graduation rate (<-> selectivity/acceptance rate!)

Cost per student, cost per degree:
containment yes, but:
not a good measure of efficiency, productivity;
reflects are differences in mission across institutions.

Median starting pay for recent graduates –
95th percentile.

China Surges Past India as Top Home of Foreign Students

By David S. Reardon, The Wall Street Journal

Foreign students at U.S. colleges and universities are increasingly coming from China, according to a new report from the U.S. Department of Education. The report shows that the number of Chinese students in the U.S. has increased by 10% in the last year, while the number of Indian students has decreased by 10%.

The report also shows that the number of Chinese students in the U.S. has increased by 10% in the last year, while the number of Indian students has decreased by 10%.

Foreign students at U.S. colleges and universities are increasingly coming from China, according to a new report from the U.S. Department of Education.

Michigan Tech	2009-2010	2010-2011	2011-2012	% Change
Michigan Tech	1,200	1,300	1,400	16.7%
Western Michigan	1,100	1,200	1,300	18.2%
Eastern Michigan	1,000	1,100	1,200	20.0%
Central Michigan	900	1,000	1,100	22.2%
Michigan State	800	900	1,000	25.0%
Other Michigan	700	800	900	28.6%
Non-Michigan	600	700	800	33.3%
Total	5,200	5,700	6,200	19.2%

Finance and Audit Committee Report

Mr. Hicks provided the Board with the following report.

We have met several times by phone since the last Board meeting, discussing the financial position of Michigan Tech in line with the strategic plan. As of yesterday we met again, looking at the financial positioning and the outlook for Michigan Tech. Specifically, we discussed looking at our debt levels, credit ratings, and capital project analysis as we go forward and how we position Michigan Tech not only for growth, but in a financially prudent manner.

We also looked at our Fiscal Year 12 budget parameters, primarily enrollment projections, room and board rates, overall positioning for the University including the Strategic Faculty Hiring Initiative, and looking at the economic impact of this initiative and what value it brings not only in the short term but for the long term for Michigan Tech and its strategic plan. The Committee also looked at various scenarios over the next five years in our

financial model whether it be state appropriations, growth in research, or all activities in line with our strategic plan and what that means to the economics of Michigan Tech.

Michigan Tech is not only well positioned today, but we believe well positioned for tomorrow. The Committee is looking at the right metrics for the financial well being of Michigan Tech going forward.

Mr. Greenlee provided the Board with the following report:



**Balance Sheet
Condensed Statement of Net Assets
as of September 30, 2010**

ASSETS	
Current Assets	\$ 33,605,529
Noncurrent Assets:	
Capital Assets, net	243,882,501
Other Noncurrent Assets	21,095,510
TOTAL ASSETS	<u>\$ 298,583,540</u>
LIABILITIES	
Current Liabilities	\$ 18,287,281
Noncurrent Liabilities	72,911,105
TOTAL LIABILITIES	<u>\$ 91,178,386</u>
NET ASSETS	
Investments in capital assets, net of related debt	\$ 173,125,940
Other net assets, restricted and unrestricted	34,279,214
TOTAL NET ASSETS	<u>\$ 207,405,154</u>

Current Fund FY11

(In Thousands)

	Original Projection	1st Qtr Projection
Revenue	245,429	246,554
Expense	(245,218)	(248,380)
Net Income	211	174
Current Fund Balance	15,523	15,486

Note: Current Fund includes General Fund, Designated Fund, Auxiliaries, Retirement and Insurance, and the Expendable Restricted Funds.

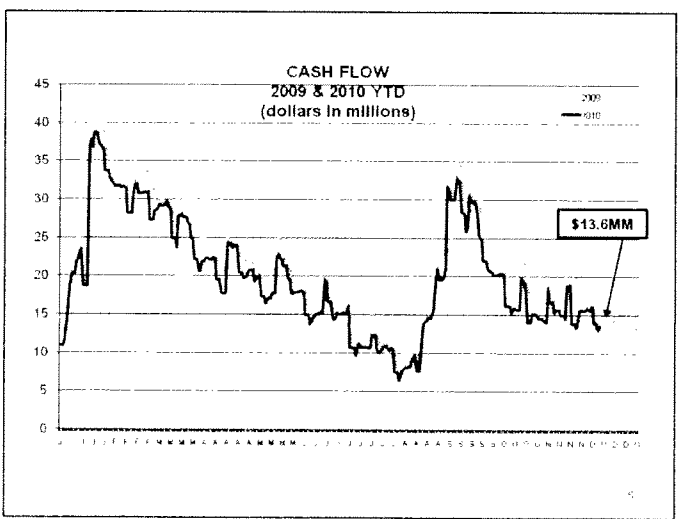
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Current Fund Balances

(In Thousands)

	Balance 06/30/09	Balance 06/30/10	Projected Balance 06/30/11
TOTAL CURRENT FUND	\$ 15,635	\$ 15,313	\$ 15,486
LEGALLY RESTRICTED FUNDS	(2,822)	(2,692)	(3,188)
UNRESTRICTED FUND BALANCE	\$ 12,813	\$ 12,621	\$ 12,298

4



IV. CONSENT AGENDA

It was moved by K. Clark, supported by R. Reck, 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 K. Clark, supported by R. Reck, and passed by voice vote without dissent, that the minutes of the formal session of September 30, 2010, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by K. Clark, supported by R. Reck, 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: 201012

Bachelor of Arts in Scientific and Technical Communication
Michelle A Farrey - Cum Laude

Bachelor of Science in Accounting
Jie Chen
Amanda Kristin Heikkinen

Bachelor of Science in Business Administration
Aleksandar Alex Dimitrijeski
Rachelle M Donaghue
Alyson J Dreher
Sarah Marie Graff
Claire Elizabeth Kangas
Travis James Kole
Lou Michael Meyers
Aaron Michael Parmenter
Katherine A Polzien
Joshua A Ylitalo
Glenn Daniel Ylitalo

Bachelor of Science in Finance
Amanda Marie Boers

Bachelor of Science in Applied Geophysics
Joshua Daniel Shue

Bachelor of Science in Biomedical Engineering

Stephen R Stafford
Eli Vlasisavljevich - Summa Cum Laude

Bachelor of Science in Civil Engineering

Johan Bjorkquist
Michael Aaron Carpenter
Chad David Girard
Carl Ardell Honkala
Lasse Kristian Kauserud
Eric Aldrich Koppana
Andrew D Mansfield
Ryan James Pike
Yusuf Kamal Rida
Brian Charles Snover
Kyle Peter Thompson - Magna Cum Laude
Jeffrey Dean Valensky

Bachelor of Science in Chemical Engineering

Colin J Breckler - Magna Cum Laude
Jordan Lee Klinger
Isabel MacKerrol Wescoat

Bachelor of Science in Computer Engineering

Wayne Oliver Brown
Christopher William Didur
Noah M Ewing
Nathan Steven Fetting

Bachelor of Science in Electrical Engineering

Shyam Sundar Akella
Anthony N Doering - Cum Laude
Jake Elwood Dunda
Mark Andrew Hopkins - Magna Cum Laude
Andrew Christopher Kolinko
Roger J Matias
Katherine Lee Retzloff
Jason Michael Rudden

Bachelor of Science in Environmental Engineering

Edward Joseph Nahan
Christopher Michael Paquette
Alyssa Jane Shomion

Bachelor of Science in Geological Engineering

Christian Dean Bartz
Laura G Crimmins - Magna Cum Laude

Bachelor of Science in Mechanical Engineering

Jeffrey Michael Bladecki
Justin Tyler Dillon
Zhaomin Dong
Kingsley Chinedum Iduma
Russell P Jungnitsch
James Joshua Martin
Cory Steven Michalec
Michael M Mott - Summa Cum Laude
Nicholas Michael Pattullo
Justin Anthony Schaut
Joshua S Schmidt
John Howard Scott
Richard Henry Sypniewski
Jerin T Varghese
Matthew James Zblewski

Bachelor of Science in Materials Science and Engineering

Steven G Klimowicz

Bachelor of Science in Forestry

Joshua J Wickman

Bachelor of Science in Wildlife Ecology and Management

Amanda Irene Norris
Matthew Jerome O'Neill

Bachelor of Science in Anthropology

Catherine Rebecca Cogger - Magna Cum Laude
James R Dau

Bachelor of Science in Biological Sciences

April Dawn Powers
Holly Lynn Seppala

Bachelor of Science in Chemistry

Katrina Marie Bugielski
Annie L Putman - Cum Laude

Bachelor of Science in Computer Science

Jason Scott Hiebel - Magna Cum Laude
Mark Daniel Vignali

Bachelor of Science in Health and Physical Education

Vernon Lee McCoy

Bachelor of Science in Exercise Science

Sophia Feldt

Valerie L Halonen

Bachelor of Science in Mathematics
Andrew W Boettcher

Bachelor of Science in Psychology
Sarah Marie Graff
Jay Paul Little

Bachelor of Science in Social Sciences
Christopher L Steimel
Amy Ann Bubnash Storer - Summa Cum Laude
Angela Susan Tomasi

Bachelor of Science in Scientific and Technical Communication
Bryant Alan Weathers

Bachelor of Science in Construction Management
Drew Peter Ambrose
William Justin Swanteck

Bachelor of Science in Computer Network and System Administration
Nathan A Chikowski
Obie Wesley McGowan
Daniel J Pfister
Wesley James Thelen
Daniel J Toth - Magna Cum Laude
Jason D Vivian - Magna Cum Laude

Bachelor of Science in Mechanical Engineering Technology
Christopher S Bell
Nicholas Bruce East
Zachary Thomas Hitt

Master of Business Administr. in Business Administration
Anwar A Aglan
Shawn P Fanello
Ryan Michael Jones
Eric D Joseph
Maria Ann Kasza
Andrew Robert Lillesve
Paul Matthew Moyryla
Heath Armin Nunnemacher
Heather Ann Richards
Lisa Louise Tincknell
Brett Thomas Waterson-Rosso
William Robert White

Master of Forestry in Forestry
Joshua Earl Mann

Master of Science in Civil Engineering
Cory Joseph Shorkey
Andrew William Walter

Master of Science in Computer Engineering
Anish Arun Chandwani
Lufeng Shi

Master of Science in Electrical Engineering
Daniel Lee Heidfeld
Chen Li
Sheng Mao
Nicholas Josef Riegel
Pruthviraj Natwarsinh Solanki
Michael Andrew Starrett
Awadhesh Kumar Thakur
FNU Vidur

Master of Science in Environmental Engineering
Travis Kyle Ostrom
Ryu Suzuki

Master of Science in Geophysics
Jemile Elif Erdem
Joshua Paul Richardson

Master of Science in Mechanical Engineering
Joydeep Chakrabarti
Animish Dilip Dande
Christina Marie Doering
Geomy George
Gayatri Suhas Kadlaskar
Kunal Sanjeev Kolte
Vinaykumar Konduru
Pragneshkumar Ghanshyambhai Patel
Anna Lourdes Pereira
Andrew Mark Schafer
Tyler Franklin Schoenherr
Tushar Sadashiv Shinde

Master of Science in Materials Science and Engineering
Richard Markus Basary

Master of Science in Applied Ecology
Max Amil Henschell

Alexandra E Wrobel

Master of Science in Applied Science Education

Emily Louise Curry
Sarah I Storm
Sarah Marie Van Baale

Master of Science in Computer Science

Tin Tin Yu

Master of Science in Mathematical Sciences

Kenneth James Riedel

Master of Science in Physics

Rajalakshmi Krishna

Master of Science in Industrial Archaeology

Sean Michael Gohman

Doctor of Philosophy in Civil Engineering

Yuejun Yin

Doctor of Philosophy in Chemical Engineering

Joshua James Carlson

Doctor of Philosophy in Engineering - Environmental Engineering

Lauren Marie Fry

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

Shreehari Elangovan
Ezequiel Fernando Medici
Siladitya Pal
Edwar Romero Ramirez

Doctor of Philosophy in Biological Sciences

Sarah Nelson Kiemle
Eric Michael Winder

Doctor of Philosophy in Engineering Physics

Jason Peter Moscatello
Ming Xie

Doctor of Philosophy in Rhetoric and Technical Communication

Laurence Jose
Kimberly Christine Rudkin
Cynthia Lynn Weber

IV-C. Gifts

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

**Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2010 through October 31, 2010
Compared to Prior Year**

Gift Type	FY11 YTD Total	FY10 YTD Total	\$ Change from Previous Fiscal Year	% Change from Previous Fiscal Year
Cash (current year)	2,110,214	1,003,681	1,046,533	96.4%
Realized Planned Gifts (current year)	249,256	143,609	105,651	73.6%
Current Year Subtotal	2,359,470	1,207,286	1,152,184	95.4%
Cash (receipts from prior year pledges)	180,289	1,275,410	-1,095,120	-85.9%
Realized Planned Gifts (previously recorded)	55,000	8,119	46,881	798.6%
Receipts from Previous Year Subtotal	235,289	1,281,529	-1,046,239	-81.6%
Total	2,594,759	2,488,815	105,945	4.3%

**Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2010 through October 31, 2010
Compared to Prior Year**

Source	Goal	FY11 YTD Total	% YTD	FY10 YTD Total	FY10 Total
Individuals - Major Gifts (25K and up)	13,000,000	2,205,396	17%	273,380	3,093,321
Realized Planned Gifts (Unanticipated - 25K and up)		238,973		127,032	600,784
Individuals - non-Major Gifts	1,250,000	391,610	31%	368,346	1,283,753
Full Value New Planned Gift Commitments	8,200,000	2,853,973	35%	1,840,313	4,791,392
Annual Fund	1,500,000	389,771	26%	292,798	1,478,548
Corporations	1,600,000	701,051	44%	368,485	1,289,427
Foundations & Other Organizations	600,000	130,753	22%	18,786	119,040
Gifts-in-Kind	850,000	25,970	3%	22,200	457,735
Grand Total	27,000,000	6,937,498	26%	3,109,343	13,115,010

- 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

IV-D. Resignations, Retirements & Off Payroll

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

BOARD OF CONTROL OFF-PAYROLL REPORT September 5, 2010 – October 30, 2010

Faculty				
<u>RESIGNATION</u>	<u>Department</u>	<u>Title</u>	<u>Hire Date</u>	<u>Term Date</u>
Peterson, Karl	Civil & Env Eng	Research Asst Professor	06/01/99	10/15/10
<u>RETIREMENT</u>	<u>Department</u>	<u>Title</u>	<u>Hire Date</u>	<u>Term Date</u>
Adler, John	Biological Sciences	Professor	08/27/84	10/15/10

Staff				
<u>EXEMPT</u>	<u>Department</u>	<u>Title</u>	<u>Hire Date</u>	<u>Term Date</u>
Li, Haihua	J.R. Van Pelt Library	Web Services Librarian	02/10/05	10/29/10
<u>NON-EXEMPT</u>	<u>Department</u>	<u>Title</u>	<u>Hire Date</u>	<u>Term Date</u>
Besonen, Kimberly	Civil & Env Eng	Office Assistant 5	11/13/00	10/16/10
Eckhart, Alfred	Rozsa Center	Office Assistant 4	01/14/02	10/02/10
<u>NON-EXEMPT-PT</u>	<u>Department</u>	<u>Title</u>	<u>Hire Date</u>	<u>Term Date</u>
Hickey, Sherry	Campus Dining Services	Food Service Helper	10/26/09	10/15/10

V. ACTION/DISCUSSION ITEMS

V-A. Emeritus Rank

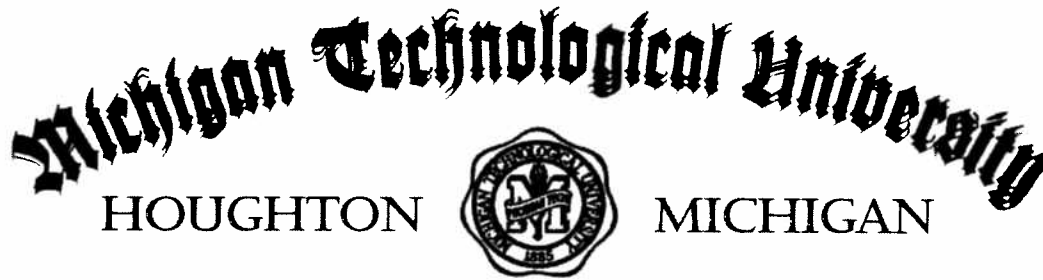
It was moved by R. Reck, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves the following emeritus appointments:

- 1.) Dr. Anand Kulkarni, Professor Emeritus, Department of Electrical and Computer Engineering
- 2.) Dr. Ted Lockhart, Professor Emeritus, Department of Humanities

V-B. Resolution for Ruth Reck

Dr. Ruth Reck's appointment to the Board of Control expires on December 31, 2010, and in recognition of Dr. Reck's distinguished service and outstanding contributions to the Board of Control and Michigan Tech the Board would like to honor her with a resolution of appreciation.

It was moved by K. Clark, supported by T. Baldini, and passed by voice vote with one abstention (R. Reck), that the Board of Control adopts the Resolution of the Board of Control of Michigan Technological University In Appreciation for Ruth A. Reck as presented herein.



Resolution of the Board of Control of Michigan Technological University

In appreciation

Ruth A. Reck

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

WHEREAS Ruth A. Reck, a long time citizen of the State of Michigan, has honorably and dutifully served her State and its constituents; and

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


WHEREAS her service to the Michigan Technological University Board of Control was for a period of twenty 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 Michigan Technological University Board of Control extends appreciation and congratulations to this distinguished citizen and former member of this body.



Martha K. Richardson, Chair



Glenn D. Mroz, President

Dr. Reck made the following comments:

It isn't about me, it's about the University. And when people tell me that something happened while I was here, you really are talking about yourself, and you are talking about what has been accomplished here. I am so incredibly proud of this University. I can just burst at the seams now. I think of when I came, and I didn't know a lot about the University at the time, and wow today. You should really feel fantastic on the accomplishments and where Michigan Tech has gotten.

I hope you dream big, and I don't mean in size. I hope that your accomplishments can be tremendous, almost beyond your thoughts at this point. You don't get anywhere without first aspiring to get there. And you have to think where can we go, what can be our contributions to the world. You are a fantastic asset for Michigan. You are an even more incredible asset to the United States and to the World. Just keep up everything that you are doing. Be very positive. Know you have the capability. Sometimes I worry that some of our people don't realize how good they are. I think they don't really recognize their own power and their own

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capability. And I just ask you to reassure each one. Be kind to everybody here. Be kind to your colleagues.

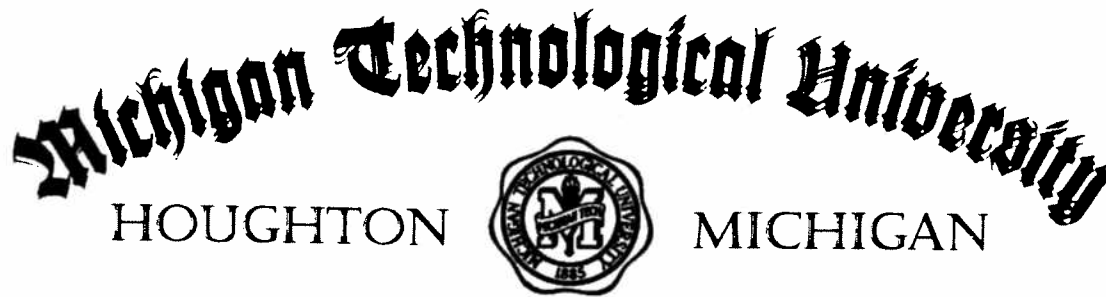
Before I sit down I want to acknowledge three people. One of them is of course my dear friend Dale Tahtinen who was the first person I laid eyes on when I got welcomed to Michigan Tech. He came and visited me when I was at General Motors Research Labs and brought me a whole lot of paper to read and I wondered what I was getting into. And, the two ladies who have been just incredibly important in making my stay here wonderful. Roberta was the first and very shortly was Janet. These are women that are so extraordinary. I don't think you realize all they contribute. How much they integrate the University. The thing that you can't put in someone's intention is the goodwill that they produce. They intend to do the right thing. They don't have to be told. They do it. They are thinking ahead and they are doing it all the time, and I think they make the whole thing work very well. Without them nothing could happen. So I want to thank them so much and thank Dale as well.

It's been 20 years of my life that I've thought of you as family. Thank you.

V-C. Resolution for Russell Gronevelt

Mr. Gronevelt's appointment to the Board of Control expires on December 31, 2010, and in recognition of Mr. Gronevelt's distinguished service and outstanding contributions to the Board of Control and Michigan Tech the Board would like to honor her with a resolution of appreciation.

It was moved by K. Clark, supported by L. Ashford, and passed by voice vote with one abstention (R. Gronevelt), that the Board of Control adopts the Resolution of the Board of Control of Michigan Technological University In Appreciation for Russell A. Gronevelt as presented herein.



Resolution of the Board of Control of Michigan Technological University

In appreciation

Russell A. Gronevelt

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

WHEREAS Russell A. Gronevelt, a citizen of the State of Michigan, has honorably and dutifully served his State and its constituents; and

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

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

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

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

Martha K. Richardson, Chair

Glenn D. Mroz, President

Mr. Gronevelt provided the following comments:

Thanks everyone. I truly do mean it's pretty awesome to be on the Board of Control for your alma mater. It has been a great seven years. I now live in the neighborhood, and I'm sure that I will continue to stay involved. Thank you.

V-D. Appointment with Tenure

It was moved by R. Gronevelt, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves the appointment of Dr. Ezra Bar-Ziv as Professor with tenure in the Department of Mechanical Engineering-Engineering Mechanics effective December 27, 2010.

VI. REPORTS

- A. Marketing and Recruitment Update – Mr. Shea McGrew, Vice President for Advancement and Marketing and Dr. Les Cook, Vice President for Student Affairs
A copy of Mr. McGrew's and Dr. Cook's presentation is on file in the Board Office

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- B. University Senate Report – Dr. Rudy Luck, President
A copy of Dr. Luck’s report was included in the agenda book.
- C. Graduate Student Government and Undergraduate Student Government Report –
Mr. Jarod Maggio and Mr. Paul Mattson, Presidents
A copy of Mr. Maggio’s and Mr. Mattson’s report was included in the agenda book.
- D. Academic Information Technology Update – Dr. Walter Milligan, Chief Information
Officer
A copy of Dr. Milligan’s report is on file in the Board Office.

VII. INFORMATIONAL ITEMS

- A. Analysis of Investments
- B. University Issued Bond Balances
- C. Research and Sponsored Programs
- D. Advancement Report
- E. Recent Media Coverage

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

There were no public comments at this time.

X. CLOSED SESSION FOR PERIODIC PERSONNEL EVALUATION OF PRESIDENT MROZ

It was moved by R. Gronevelt, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control proceed into closed session for a periodic personnel evaluation of President Mroz. (A closed session for such a purpose is provided for in Section 8 (a) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:

Richardson – Yes	Reck - Yes
Ashford – Yes	Ollila - Yes
Gronevelt – Yes	Clark - Yes
Baldini – Yes	

The motion passed.

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

Personnel Evaluation

I wanted to report briefly on what we discussed in closed session, which as you know is the periodic evaluation of the performance of the President. Janet works on it all year long, but we have certainly been working on it as a Committee for most of the year. My thanks to the Committee chaired by Russ Gronevelt with Kathy Clark and Paul Ollila as members.

I am pleased to report that we have had an excellent performance evaluation for President Mroz, and that reflects very well upon not only him but the excellent team that he has assembled to support him. In particular, high marks were received in leadership and team building which we see on a daily basis as we work with Dr. Mroz. With the condition of the State budget and the lack of salary increases for virtually anyone else anywhere, and in spite of the fact that President Mroz obviously deserves some sort of compensation increase, but with the state of the economy we are just not going to be able to do that. So the President will have to be satisfied with an “Attaboy”, excellent job, and keep up the good work. Our compliments to the leadership team of the University who are right there every step of the way in this excellent performance evaluation.

Janet we couldn't do this without you. You are such a central part of this Board, this University, and this Committee's activities, so thank you so much for all your hard work.

XI. ADJOURNMENT

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

Secretary of the Board of Control

Chair, Board of Control