MINUTES

of the

Board of Control

Michigan Technological University

Houghton, Michigan

Meeting of

October 11, 2012
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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 11, 2012.

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 11th day of October, 2012, 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, S. Hicks, and a quorum was declared present.

The following members of the Board of Control were present:

S. J. Hicks, Chair
J. A. Fream, Vice Chair
L. D. Ashford
T. L. Baldini
K. I. Clark
P. G. Ollila
M. K. Richardson (via telephone)
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; George Butvilas, Chair of the Michigan Tech Fund; Max Seel, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Ellen Horsch, Vice President for Administration; Shea McGrew, Vice President for Advancement and various members of the faculty, administrative staff, student body, press and public.

Where item numbers are used, they refer to corresponding item numbers in the agenda, in the hands of the Board members.
I. APPROVAL OF AGENDA

Board Secretary, D. Tahtinen, recommended that the agenda be amended to add item V-F. Board of Control Silver Medal.

It was moved by K. Clark, supported by T. Woychowski, and passed by voice vote without dissent, that the agenda of the formal session of October 11, 2012, 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. 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 week including Homecoming, the Michigan Tech Fund Trustees meetings, and Family Weekend. We want to welcome everyone to campus and to participate in as many of these events that they can. As part of the Homecoming celebration there will be various activities throughout the week which began with the crowning of the Homecoming Queen last night and our fellow Board members Kathy Clark and Tom Baldini served as judges for this event. The Boat Parade, Pep Rally, and Cardboard Boat Races will be held on Friday, and on Saturday the Football team will be taking on Northwood and the Hockey team will be playing Lake Superior State University. In addition, Family Weekend, which is hosted by the Center for Orientation, Mentoring, Parents and Academic Student Success, has a wide range of activities planned to showcase our campus and program. To date, 447 families have registered to attend this weekend’s events.

I would also like to take a few minutes to recognize the outstanding efforts of the local community and the Michigan Tech community for their response to the August 17 fire at Heritage Manor. Over 140 Michigan Tech students helped move residents out of the Heritage Manor Senior Housing, and Residence Life opened up the residence halls to provide housing and meals to the displaced residents. In addition, the outpouring of support from faculty and staff, as well as the local community was overwhelming. The compassion for, and the willingness to serve others is a core value of the Michigan Tech Community and one of greatest lessons that we can impart upon our students. Our thanks to the local fire departments, local law enforcement agencies, the Red Cross and all of the other various community agencies and volunteers who responded to this unfortunate incident.

As our strategic plan articulates several goals with respect to being recognized for our ability to inspire students and advance knowledge, Michigan Tech has received several recent rankings or ratings which include:
Rated one of the best universities in the Midwest for the second year in a row, according to the Princeton Review.

included in Princeton Review’s “Best 377 Colleges” publication, which spotlights the top 15 percent of America’s 2,500 four-year colleges and three colleges outside the US.

In Princeton’s individual categories, Michigan Tech ranked in the nation’s top 20 in fire safety and scored highly in quality of life and the green category, which is the “measure of the University’s commitment to the environment in its policies, practices and education programs.”

U.S. News & World Report “Best Colleges” ranked Michigan Tech’s undergraduate engineering programs 64th in the nation among schools offering doctoral degrees, up two places from last year.

Michigan Tech’s undergraduate programs in all disciplines placed 58th in the nation, and among national universities, Tech’s undergraduate education placed solidly in what U.S. News calls its first tier, ranking 120th of 199 first-tier universities.

Michigan Tech was also listed as an “A-Plus School for B Students.” The category lists top-ranked universities that consistently consider and admit promising students whose high school grade point average is below an A.

Contributing to the goal of world-class research, Dr. Victor Busov, Associate Professor in the Biotechnology Research Center and the School of Forest Resources & Environmental Science received a $1.1 million grant from the US Departments of Energy and Agriculture to analyze the genetic traits that affect the quality and yield of woody biomass from Populus, a species that includes poplar trees like aspens and cottonwoods. Michigan Tech will work with the Oak Ridge National Laboratory and the National Renewable Energy Laboratory on the 3-year study.

As you know, we have developed a set of metrics and five year targets to help guide us in monitoring our progress with the strategic plan. I would like to take a few moments and highlight some of the key metrics, many of which will be addressed in further detail during the meeting through the Committee Reports, the Enrollment Report by Dr. Cook and the Research Report by Dr. Reed.

Based on preliminary numbers, enrollment has decreased slightly, and we are down about 89 students in total. Undergraduates were down 108 with graduates being up by 19. As you recall, we did plan for a decrease in enrollment as we had a very large graduating class last Spring, so these preliminary numbers are not surprising.

ACT scores of the incoming freshmen have risen from 26.1 in 2010-2011 to 26.4 in 2011-2012, with the goal of reaching 26.7 in FY17.

Retention rates remain in the 83% range, with the target goal of 85% in FY17. This is a significant improvement over 2010’s rate of 80.9%.

The number of faculty has increased steadily over the past five years, and it is projected that we will have 370 faculty in FY17. The combination of replacement hires along with 30 faculty hired under the Strategic Faculty Hiring Initiative led to an increase from 310 in 2007 to 354 in 2012. The
Strategic Faculty Hiring Initiative has been successful in helping us achieve this growth and has brought many very talented faculty to our campus, and

- Placement rates have risen dramatically from 86.3% in 2009-2010 to 94.6% in 2010-2011, and I would like to recognize the amazing success of the recent Career Fair held last week on campus. Two hundred and eighty companies were in attendance to recruit the bright, motivated students that Michigan Tech is so well known for. Over the course of 2-3 days 888 recruiters conducted nearly 4,200 interviews. I think this clearly shows that Michigan Tech is doing a phenomenal job of producing the type of students that are so in demand for today’s economy. Congratulations to our students and to Career Services for their leadership in helping to bring these companies to campus.

As you can see, these metrics illustrate the fact that we are making progress and moving in the right direction with our strategic plan and vision. They also reflect the great job that everyone is doing to help achieve our goals.

I would also like to take this opportunity to announce some changes in the Board committees. Going forward, the Academic Affairs Committee will be chaired by Terry Woychowski, and its members include Lenora Ashford, Kathy Clark, and Paul Ollila. The Finance and Audit Committee will be chaired by Tom Baldini, with Julie Fream, Marty Richardson and myself as members. In addition, we are taking the Presidential Review Committee and the Nominating Committee and putting them under one umbrella called the Leadership Committee. This committee will be chaired by Julie Fream and its members include Kathy Clark, Paul Ollila and Terry Woychowski. I want to thank the Board members for their dedication and willingness to serve on these committees, and I look forward to a very productive year.

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. 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**

Chair Hicks pointed out one of the fascinating things about the current world in which we live. There is high demand for Michigan Tech students in the marketplace as witnessed by last week’s career fair. While the election campaign rhetoric seethes with tales of college graduates unable to find a job, our placement rates last year were 94.6% and this year looks to be the same barring an economic meltdown. It’s true that it’s not good for many and this has caused wrenching change for individuals and families across the U.S. The current marketplace is very specific about the skills needed, and those are the STEM skills.

The U.S. GDP returned to pre-recession levels in February of 2011 – but it did so with 7 million fewer people working, and 15 million under-employed. Its estimated by the Department of Commerce that last weeks’ unemployment figures dipped below 8% for the first time in 4 years with the addition of 114,000 jobs. The Brookings Institution Hamilton Project recently published projections that if the economy adds about 208,000 jobs per
month, which was the average monthly rate for the best year of job creation since the turn of the century, it will take until August of 2020, or eight years to fill the jobs gap. If we go back to the best rate of job creation for the 1990’s, 321,000 per month which was the average monthly rate of the best year, the economy will reach pre-recession employment levels by November of 2016, just about four years from now.

So, if you consider our Chair’s remarks in that light, the Michigan Tech placement rate is even more impressive. The knowledge of science and math, communications skills, the critical thinking skills that enable people to use scientific knowledge to solve problems, and the abilities and judgment that come from experience that leads to confidence are in demand as we’ve seen from the career fair numbers.

Last week I was privileged to attend a meeting sponsored by the White House and the Department of Commerce on the “Innovative and Entrepreneurial University”.

In her remarks, the Secretary of Commerce reported that in 2005, which was pre-recession, there was a net increase of 2.5 million jobs in the U.S. Start-up businesses accounted for 3.5 million new jobs that year. If you do the math – that’s right, we were already losing traditional jobs and being offset by startups by entrepreneurs.

Why Michigan Tech at this meeting? Because in the process of building an education that includes the theoretical and the practical so much in demand to employers, Michigan Tech has also built the education of entrepreneurs and cooperated with others to build the entrepreneurial ecosystem that is key to fostering creativity and creating jobs.

Consider the following programs, facilities and services aimed at supporting contacts with business and/or sharpening entrepreneurial skills, of students faculty and staff, and starting and accelerating business - something we were charged with in 1885:

- Career Services
- Corporate Services
- Assistance with Licensing and patenting
- Investing Research Excellence Funds in idea development
- Investing corporate gifts in product research
- The whole of faculty, staff and grad student research & development
- Summer undergraduate research fellowships for undergraduates (SURF)
- Co-ops/internships for students
- MTESC/SI Michigan Tech Entrepreneurial support corporation,
- Superior Innovations Corporation
- Michigan Tech Enterprise Corporation SmartZone
- SmartStart Pre-Incubation Program
- Four business incubators
- Entrepreneur Support Center
- Pure Michigan Entrepreneurial Services Program
- Our own Enterprise Programs for Students
- The FERM for Forestry and Environmental Science Students
- Applied Portfolio Management Program in Business
- Celebrating research inventors with recognition
• Crowd-funding research and businesses
• Entrepreneurial leaves for faculty
• Challenge competitions like the
• Elevator Pitch Competition
• New Venture Competition [with CMU]
• Opening our facilities to companies using lab facilities (KRC)
• Bringing Entrepreneurs and venture capital managers and angel investors to campus to support students, faculty, staff and alumni
• The Ignite program sponsored by the Presidential Council of Alumnae to support female leaders and entrepreneurs.

The thing is - this isn’t the whole list. But I think you can get a flavor of just why education matters, and why place matters in supporting those with the entrepreneurial gene whether that gene expresses itself now or in the future. And why having a community of entrepreneurs is important, because entrepreneurial activity is a contact sport.

Why is entrepreneurship important in Washington? Karen Mills, Administrator of the Small Business Administration and others are working from the assumption that 2/3 of new jobs will come from small business and most of these will come from a subset of high technology, high impact start- ups. As Steve Case, CEO of AOL and eventually AOL Time Warner and now an advisor to the President along with Secretary Blank summed up in their remarks at the meeting and I’m paraphrasing a bit - Universities are uniquely positioned to create the regional entrepreneurial ecosystems that are critical to creating the jobs of this century and beyond “insuring” in the words of the President “that the 21st century is a great American Century “

It is a credit to the faculty, staff and students who have leveraged their intellect and creativity, our university resources and partnered with private, federal, state and community resources to position Michigan Tech to be where it can continue to grow to meet the needs of this American Century.

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 a brief discussion of the action items. Our committee supports the recommendation to grant emeritus status to Professor Dennis Wiitanen. It was a pleasure to read the recommendation letter. Professor Wiitanen has been the face of electrical engineering at Michigan Tech for over 40 years. It is only fitting that he be recognized for his invaluable contributions by naming an endowed professorship in his honor. We would
also like to acknowledge former Board Chair Dave Brule, as he was instrumental in making the “Dennis Wiitanen Endowed Professorship in Electric Power Systems” a reality.

We also discussed and recommend support of the five year capital outlay plan, which requires annual approval by the governing body. Despite the fact that the State Budget Office is not accepting capital outlay project requests for FY14.

Next we continued our discussion of quality metrics and how to improve student success. Since the provost will present the main points of this discussion in his presentation, I will give only a brief summary.

Last October, our committee discussed hallmarks of a quality education and what appropriate quality measures should be. To assess the quality of the input, ACT scores, GPA, and the 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 provide good information. The provost will provide a one page summary which addresses these top quality measures.

Additionally, relevant to this discussion, an AQIP action project “Improving Student Success” was started. The committee was charged with assessing undergraduate student success in terms of metrics on retention, graduation rate, time to degree, and placement, and how that success related to the availability and student use of high impact practices. The report is online and the provost will present an executive summary in his report.

In conclusion, during our August Board meeting we had a very successful meeting with the new deans. Discussion topics included the importance of themes, goals, and key topics that are interdisciplinary in nature and cut across schools and college boundaries. At yesterday’s meeting, we received a brief update on activities that involve more than one college or school: we were informed of discussions on computing and information science that involves Electrical and Computer Engineering, Computer Science, and the School of Technology with its computer network and systems administration program; about sustainable energy systems, about human health research and workshops for NIH proposals, and biomaterials involving the School of Forest Resources and Environmental Sciences, the Department of Material Science and Engineering, and the School of Business and Economics. We are looking forward to having breakfast with the deans at our December meeting to hear more about these exciting developments.

**Provost Report**

Provost Max Seel provided the Board with the following report.
Provost Report
Board of Control Meeting
October 11, 2012

Quality Measures

AQIP Project “Improving Undergraduate Student Success”

AQIP Action Project
Improving Undergraduate Student Success

* [http://www.rtu.edu/aql/actions/projects/completed/](http://www.rtu.edu/aql/actions/projects/completed/)

Project Team:

Academic Side:
- M. Goclenbach, Chair - Math
- N. Grimm, Director - Learning Center
- J. Kampe, Chair - Engineering Fund
- T. Schulz, Dean, Engineering
- C. Walck, Associate Provost

Student Affairs:
- L. Cook, VP
- B. Gorman, Dean of Students
- J. Lehman, Asst. VP, Enrollment Serv.

Institutional Analysis:
- R. Ellenich
Improving Undergraduate Student Success

Charge:

to assess undergraduate student success using metrics for student retention, grade distribution, graduation rate, time to degree, placement and high impact practices, in order to identify systems, processes and practices which have a critical impact on student success.

Improving Undergraduate Student Success

Peer Benchmarking and Goal Evaluation

- Clarkson University (private)
- Colorado School of Mines (public)
- Lehigh University (private)
- Louisiana Tech (public)
- Michigan State University (public)
- Missouri University of Science & Technology (public)
- New Jersey Institute of Technology (public)
- New Mexico Institute of Mining and Technology (public)
- Rochester Institute of Technology (public)
- University of Michigan – Ann Arbor (public)
- Worcester Polytechnic Institute (private)

Improving Undergraduate Student Success

Recommendations:

1. First- to second-year retention: 85%
2. Six-year graduation rate: 70%
3. Average Time to graduation: 4.5 years
Improving Undergraduate Student Success

Follow-up Working Group:

design intervention program that targets first-year students deemed most at risk

Other Follow-up:

**Student Success Center**
(together with Dean of Students)

**High-Impact Practices**
(Enterprise Program, Pavlis Leadership Institute, Summer Undergraduate Research Fellowships, Honors Institute, Research Scholars Program etc)
Finance and Audit Committee Report

Mr. Baldini provided the Board with the following report.

The Finance and Audit Committee has met twice, since the last board meeting. We have already begun discussions for fiscal year 2014’s budget preparation along with a review of the current fiscal year of 2013.

1. We’ve reviewed the 1st quarter projections of FY13, which show results in the Current Fund balance being slightly negative at approximately $1.2M, if we do nothing. However, the staff is taking steps to address this issue, and Dan Greenlee, our CFO, will present a high-level review of the projections after my summary.

2. We also discussed some of the other aspects of the current fiscal year (FY13), based upon the 1st quarter results, and many indicators appear to be relatively stable; enrollment is holding relatively steady, tuition revenue is slightly down, but offset by auxiliary revenues – particularly student housing. The grant and contract revenue isn’t quite where we had hoped, but that may pick-up. We recognize that with state appropriations at their current levels, careful monitoring of the year is critical.

3. We have concern for, and have discussed some of the actions that may need to be taken by the Administration in the coming months to strategically manage our health care costs. This is not action that is taken lightly, and we recognize that that the University’s employees are one of Michigan Tech’s most valuable assets.

4. The Finance Committee has also reviewed some preliminary FY14 budget targets, the 5 year capital plan summary, and the plateau tuition rate structure proposal.

5. The Finance Committee reviewed and supports the passage of The Five Year Capital Outlay Plan for the State, which will be presented for a vote later in this meeting, and it should be noted as the Academic Affairs Committee indicated that we are required
to submit this plan regardless of whether or not the State is planning to finance or commit any funding.

6. We also discussed, with no conclusion or decisions, the potential impact of the sequester debate that is taking place, or will be taking place, in Washington after the election and the possible consequences of that on the State of Michigan, research and development funding, and on the University.

7. The Committee also reviewed the Annual Audited Financial Report, presented by Steve Peacock of The Rehmann Group, and we also had an Executive Session with Mr. Peacock, Jodi Heikkinen of Internal Audit and Paul Tomasi, our attorney.

In addition, the Committee reviewed the Capital Projects, Continuous Improvement using Lean Principles, and MPSERS.

CFO Report

Mr. Dan Greenlee provided the Board with the following report.
### Balance Sheet

**Condensed Statement of Net Assets as of September 30, 2012**

(unaudited)

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<th>ASSETS</th>
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<tr>
<td>Current Assets</td>
<td>$39,674,463</td>
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<td>Noncurrent Assets:</td>
<td></td>
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<tr>
<td>Capital Assets, net</td>
<td>256,391,828</td>
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<tr>
<td>Other Noncurrent Assets</td>
<td>22,178,099</td>
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<td><strong>TOTAL ASSETS</strong></td>
<td><strong>$319,240,380</strong></td>
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<th>LIABILITIES</th>
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<tr>
<td>Current Liabilities</td>
<td>$29,028,422</td>
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<tr>
<td>Noncurrent Liabilities</td>
<td>88,150,262</td>
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<td><strong>TOTAL LIABILITIES</strong></td>
<td><strong>$117,178,684</strong></td>
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<tr>
<th>NET ASSETS</th>
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<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$171,654,444</td>
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<tr>
<td>Other net assets, restricted and unrestricted</td>
<td>41,660,002</td>
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<tr>
<td><strong>TOTAL NET ASSETS</strong></td>
<td><strong>$213,314,446</strong></td>
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### Current Fund FY13

(in Thousands)

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<tr>
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<th>Original Projection</th>
<th>1st Qtr Projection</th>
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<tr>
<td>Revenue</td>
<td>$257,840</td>
<td>$254,404</td>
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<tr>
<td>Expense</td>
<td>($257,397)</td>
<td>($255,646)</td>
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<tr>
<td><strong>Net Income</strong></td>
<td>$443</td>
<td>($1,242)</td>
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<tr>
<td><strong>Current Fund Balance</strong></td>
<td>$12,931</td>
<td>$11,246</td>
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Note: Current Fund includes General Fund, Designated Fund, Auxiliaries, Retirement and Insurance, and the Expendable Restricted Funds.

### Current Fund Balances

(in Thousands)

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<tr>
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<th>Balance 06/30/11</th>
<th>Balance 06/30/12</th>
<th>1st Qtr Projection 06/30/13</th>
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<tr>
<td><strong>TOTAL CURRENT FUND BALANCE</strong></td>
<td>$16,980</td>
<td>$12,488</td>
<td><strong>$11,246</strong></td>
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<tr>
<td><strong>LEGALLY RESTRICTED FUNDS</strong></td>
<td>($2,909)</td>
<td>($3,960)</td>
<td>($3,776)</td>
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<td><strong>UNRESTRICTED CURRENT FUND BALANCE</strong></td>
<td>$13,271</td>
<td>$8,528</td>
<td>$7,470</td>
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Michigan Tech Fund Report

Mr. Butvilas provided the Board with the following report.
Notable Recent Gifts/Pledges

- Waino Wahtera ’42
  $750,000/TBD

- David Brule ’72
  $180,000/Summer Reading Program
  & Scholarships for Women

- Arcelor Mittal
  $103,000/Enterprise, Senior Design, equipment,
  student travel

The Pathway to $200 Million
Our Projections

Projected Yields

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>Projected Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Major/Planned Gift Asks</td>
<td>$43.4M</td>
<td>$15.0M</td>
</tr>
<tr>
<td>New asks by December 31, 2013</td>
<td>12.0M</td>
<td>$4.5M</td>
</tr>
<tr>
<td>Total Major/Planned Gift Expectancies</td>
<td></td>
<td>$19.5M</td>
</tr>
</tbody>
</table>

October 8, 2012

Post-Campaign Considerations

Objective:
Continue to grow overall level of private support, fund priorities, and increase base of donors.

Fundraising Priorities

- Student financial aid
- Faculty support
- Priority projects
- Budget relief
Post Campaign Resource Levels

- We will need to look at our budget, staffing, expenses etc.

Post Campaign MTF Structure

Role of the MTF Board

Fund Raising Role of the Trustees

Optimize/Engage Dedicated Volunteer Corps

Current Structure

MTF Board oversees:
- Investment of gift assets
- Audit function
- MTF finances
- Advises/supports fundraising
External Auditors Report

Mr. Steve Peacock of Rehmann Robson, reported on the 2011-2012 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. He also informed the Board about some proposed upcoming GASB pronouncements that may impact Michigan Tech’s financial statements in 3-5 years. Mr. Peacock thanked all of the individuals at Michigan Tech who were involved with the audit for their efforts.

IV. CONSENT AGENDA

It was moved by T. Baldini, supported by J. Fream, 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 T. Baldini, supported by J. Fream, and passed by voice vote without dissent, that the minutes of the formal session of August 2, 2012, as distributed to the Board, be approved.
IV-B. Degrees in Course

It was moved by T. Baldini, supported by J. Fream, 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 201205

Bachelor of Arts in Communication, Culture, and Media
   Michael William Blanchard

Bachelor of Arts in Communication and Culture Studies
   Charles Phillip Hurley

Bachelor of Arts in Sound Design
   Chloe Anna-Augusta Laban - Cum Laude
   Eben Louis Mannes
   Alex F Palma
   Duane Irving Puuri
   Daniel Katamba Serunjogi

Bachelor of Arts in Liberal Arts
   Jillian Rene Laitinen - Summa Cum Laude

Bachelor of Arts in Scientific and Technical Communication
   Raeanne Lee Madison - Magna Cum Laude

Bachelor of Science in Accounting
   Shuiyuan Tan - Cum Laude
   Rachael Marie Zerbst

Bachelor of Science in Business Administration
   Joseph Lawrence Giddings
   Rebekka D Mikkola - Magna Cum Laude
   Michelle E Moulds
   Gabrielle Alida Myers

Bachelor of Science in Economics
   Katherine Delia O'Connell

Bachelor of Science in Management
   Hanlin Hao
   Jiayi Long

Bachelor of Science in Management Information Systems
   Christopher Andrew Capo
Bachelor of Science in Marketing
   Yu Zhou - Cum Laude

Bachelor of Science in Biomedical Engineering
   Trent William Jansen
   Justin Scot Springer

Bachelor of Science in Civil Engineering
   Brett M Allen
   Jon David Apitz
   Travis M Berro
   Kurt-Erich Breitenbucher
   Cory M Casagrande
   Longhan Chen
   Todd Michael Deloria
   Xiaowen Jin
   Nathan J Kindt
   Benjamin David Lund
   Christopher Hayes Mullen
   David Porter
   Kevin Michael Rey
   Isaac N Roberts
   Blaine Lawrence Shotwell
   Stephanie A Tulk
   Katherine Rose Waring - Magna Cum Laude

Bachelor of Science in Chemical Engineering
   Safia H Cisse
   Kyle James Dawson
   Ryan Timothy Hill

Bachelor of Science in Computer Engineering
   James Robert Shortland

Bachelor of Science in Electrical Engineering
   Gabriel Jamal Agboruche
   Jaime Allison Craig
   Xuebo Cui
   Keith S Diels
   Yan Guo
   Craig E Helminen
   Jing Li - Cum Laude
   Shefeng Li
   Kyle William Smith
   Jingjing Yu - Magna Cum Laude
   Zhi Zeng
   Sheng Zhang - Magna Cum Laude
Bachelor of Science in Environmental Engineering
Danielle Marie Poma
Nicole Marie Schadrie
Katherine Rose Waring - Magna Cum Laude

Bachelor of Science in Geological Engineering
Kyle Martin Hanson
Jacob David Woolley
Guoqun Zhang - Cum Laude

Bachelor of Science in Mechanical Engineering
Eric James Boylan
Yu Ge
Daniel Franklin Green - Summa Cum Laude
Minglei Guan
Cory Wilson Karosa
Aram Kim
Benjamin Gerard Madsen
Christopher William Pollock
Nicholas D Pomeroy
Douglas Yutaka Yossida
Binxin Zhang

Bachelor of Science in Materials Science and Engineering
Nicholas John Kraft

Bachelor of Science in Applied Ecology and Environmental Sciences
Erin Elizabeth Hickey

Bachelor of Science in Wood Science
Brian Michael Stgermain

Bachelor of Science in Bioinformatics
Nari Kang
Sanjay Sen

Bachelor of Science in Biological Sciences
Mark Alan Bartosz - Summa Cum Laude
Li Chen
Kyle Michael Driscoll
Andrea K Kovacich
Nicole Marie Matthias
Gurinder Singh Multani

Bachelor of Science in Chemistry
Cassandra Grace Radka
Bachelor of Science in Pharmaceutical Chemistry  
Kyle Renn Scott

Bachelor of Science in Computer Science  
Brandon Thomas Benedict  
Nathan C Schulke

Bachelor of Science in Exercise Science  
Tressa Catherine Alvarado  
Heather Lee Destrampe  
Megan Terese Lindeman - Summa Cum Laude

Bachelor of Science in Mathematics  
Jody Kathleen Bockheim  
Scott Gary Brow  
Mu He  
Yunxi Qin  
Zejia Zhou

Bachelor of Science in Psychology  
Kaylee Jean Kosmowski - Cum Laude

Bachelor of Science in Software Engineering  
Derrick Henry Evans  
Nathan Alan Scowcroft

Bachelor of Science in Sports and Fitness Management  
Katherine Ann Rowley

Bachelor of Science in Social Sciences  
Ashley M Lange

Bachelor of Science in Scientific and Technical Communication  
Jennifer Lynn VanDomelen

Bachelor of Science in Computer Network and System Admin  
Amanda Rae Desy  
David Lee Left  
Brad Schooley  
Dylan T Steinmetz  
Jace Alan Toney

Bachelor of Science in Electrical Engineering Technology  
Miles Patrick Grostefon

Bachelor of Science in Mechanical Engineering Technology  
Travis Paul Baur
Bachelor of Science in Surveying Engineering
  David  Porter

Master of Business Administr. in Business Administration
  Brendan Patrick Andrews
  Christine Ann Andrews
  Megan Ann Benam
  Anastasia Fokina
  Jonathan B Hamilton
  Wei  He
  Zachary Thomas Hitt
  Xue  Jiang
  Connie Lynn Koutouzos
  Kristopher Allan Kreh
  Holly Jo Lehto
  Jacob Allan Monroe
  Aurea Lilly Rivera
  Jedediah Daniel Shields
  Andrea K Taglione
  Ramesh Chand Thakur
  Anthony Michael Tomasi
  Michael Patrick Vigrass
  Junkai  Zhang

Master of Engineering in Engineering
  Zhiyao An
  Hsiao-Han Chiang
  Ko-Chun Peng

Master of Science in Civil Engineering
  Gerald C Anzalone
  Miguel Angel Carbonell Munoz
  Eric L Kreiger
  Adam Jeffery Newton
  Benjamin Andrew Roskoskey
  Sarah Virginia Shann
  Pei  Tang

Master of Science in Chemical Engineering
  Bingyu  Bai
  Zhihao  Li

Master of Science in Computer Engineering
  Nathan Steven Fettinger
  Huan  Zheng

Master of Science in Computer Science
  Linjia Hu
Master of Science in Electrical Engineering
Zekeriya Dereli
Prajakta Chandrakant Garibdas
Trever J Hassell
Mandar Dilip Kavimandan
Christopher Robert Kazianka
Rong Liu
Bhairavi Pandya
Divya Priyanka Thalluri
Sonu Mathews Varghese
Zen J Wu

Master of Science in Environmental Engineering
Bailey Bogart Gamble
Selene Berenice Gonzalez Morales
Kristine Louise Guzak
Shichang Ma
Ashlee Kaitlin Vincent

Master of Science in Geology
Elise Anne Desplas
Celine Lucie Mandon
Patrick Manzoni
Hilary Anne Morgan

Master of Science in Mathematical Sciences
Guangjin Zhong

Master of Science in Mechanical Engineering
John Randall Armstead
Kaushal Nayan Babaria
Marshall Erin Bates
Michael David Claus
Steven Eick
Sarah Katherine Gray
Koustubh Kumar Jadhav
Md. Wasif Jamy
Aniruddha Kshirsagar
Dan Maslach
Tejas Suresh Nagapurkar
Kelsey Elizabeth Nelson
James Allen Peitzmeier
Poowanart Poramapojoana
Laura Maria Roberts
Rohan Dinesh Sali
Sachin Shrimant Sawant
Suraj Sriram
Yang Tan
Master of Science in Mining Engineering
Christopher Dawson VanArsdale

Master of Science in Forestry
Margaret Mary Fox

Master of Science in Applied Science Education
Robert Douglas Damery

Master of Science in Biological Sciences
Jonathan David Ebel
Sarah Fay Stream

Master of Science in Chemistry
Andrew Chapp
Parichehr Saranjampour

Master of Science in Physics
Kristopher William Bunker
Nathan Claiborne Kelley-Hoskins
Haiqing Zhao

Master of Science in Rhetoric and Technical Communication
Kelsey Boldt
Jean Straw DeClerck

Master of Science in Environmental Policy
Andrew Carl Orthober

Master of Science in Industrial Archaeology
John Peter Baeten
Natiffany Ranae Mathews

Doctor of Philosophy in Civil Engineering
Sigridur Osk Bjarnadottir

Doctor of Philosophy in Chemical Engineering
Michael James Brodeur-Campbell
Aytug Gencoglu
Kaela Marie Leonard
Zhiyong Zhang

Doctor of Philosophy in Electrical Engineering
Jeremy Patrick Bos
Wenjia Liu
Lakshman Kumar Vanga
Xinying Zheng
Doctor of Philosophy in Geology
   Lorna Alison Henney

Doctor of Philosophy in Materials Science and Engineering
   Tianle Cheng
   Yan Huo
   Zhiwei Peng

Doctor of Philosophy in Engineering - Environmental Engineering
   Zeyad Tareq Ahmed
   Zheng Zhang

Doctor of Philosophy in Forest Science
   Azad Henareh Khalyani
   Amber Michelle Roth

Doctor of Philosophy in Mechanical Engr-Engr Mechanics
   Joseph Carl Dingeldein
   Shu Ting Goh
   Robert Edwin Smith
   Chad Michael Walber

Doctor of Philosophy in Biological Sciences
   Kefeng Li

Doctor of Philosophy in Chemistry
   Ning Chen
   Zezhou Wang

Doctor of Philosophy in Computer Science
   Aly Mohamed Nour Farahat

Doctor of Philosophy in Mathematical Sciences
   Mohammad Fawaz Al-Jamal

Doctor of Philosophy in Engineering Physics
   Subhasish Mandal

Doctor of Philosophy in Physics
   Saikat Mukhopadhyay

Doctor of Philosophy in Rhetoric and Technical Communication
   Kevin William Hodur
IV-C. Gifts

It was moved by T. Baldini, supported by J. Fream, 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, 2012 through August 31, 2012
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY13 YTD Total</th>
<th>FY12 YTD Total</th>
<th>$ Change from Previous Fiscal Year</th>
<th>% Change from Previous Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash (current year)</td>
<td>538,653</td>
<td>447,702</td>
<td>90,953</td>
<td>20.3%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>97,672</td>
<td>1,243</td>
<td>96,429</td>
<td>7,756.2%</td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td>636,324</td>
<td>448,945</td>
<td>187,379</td>
<td>41.7%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>1,195,846</td>
<td>865,201</td>
<td>310,645</td>
<td>74.5%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>50,003</td>
<td>3,432</td>
<td>46,568</td>
<td>1,356.9%</td>
</tr>
<tr>
<td>Receipts from Previous Year Subtotal</td>
<td>1,245,846</td>
<td>868,633</td>
<td>377,213</td>
<td>86.9%</td>
</tr>
<tr>
<td>Total</td>
<td>1,882,172</td>
<td>1,137,676</td>
<td>744,596</td>
<td>66.5%</td>
</tr>
</tbody>
</table>

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2012 through August 31, 2012
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>Goal</th>
<th>FY13 YTD Total</th>
<th>% YTD</th>
<th>FY12 YTD Total</th>
<th>FY12 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>8,000,000</td>
<td>132,112</td>
<td>2%</td>
<td>55,850</td>
<td>3,449,249</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>0</td>
<td>0</td>
<td></td>
<td>0</td>
<td>548,902</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,650,000</td>
<td>205,250</td>
<td>12%</td>
<td>155,918</td>
<td>1,544,747</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>10,000,000</td>
<td>2,962,129</td>
<td>30%</td>
<td>3,398,432</td>
<td>19,052,422</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,500,000</td>
<td>344,791</td>
<td>23%</td>
<td>130,943</td>
<td>1,519,777</td>
</tr>
<tr>
<td>Corporations</td>
<td>2,200,000</td>
<td>208,875</td>
<td>9%</td>
<td>166,842</td>
<td>1,703,567</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>450,000</td>
<td>23,755</td>
<td>5%</td>
<td>8,350</td>
<td>200,198</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>900,000</td>
<td>16,816</td>
<td>2%</td>
<td>2,883</td>
<td>854,522</td>
</tr>
<tr>
<td>Grand Total</td>
<td>24,700,000</td>
<td>3,895,726</td>
<td>16%</td>
<td>3,919,215</td>
<td>27,372,370</td>
</tr>
</tbody>
</table>

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

It was moved by T. Baldini, supported by J. Fream, 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
(June 24, 2012 – September 1, 2012)

<table>
<thead>
<tr>
<th>RESIGNATION</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chigan, Chunxiao</td>
<td>Elec &amp; Comp Engineering</td>
<td>Associate Professor</td>
<td>08/18/02</td>
<td>08/01/12</td>
</tr>
<tr>
<td>Choudhury, Niloy</td>
<td>Biomedical Engineering</td>
<td>Assistant Professor</td>
<td>06/27/11</td>
<td>06/22/12</td>
</tr>
<tr>
<td>Harris, Devin</td>
<td>Civil &amp; Env Engineering</td>
<td>Assistant Professor</td>
<td>12/30/07</td>
<td>06/29/12</td>
</tr>
<tr>
<td>Kern, Rosalie</td>
<td>Cognitive &amp; Learning Sciences</td>
<td>Associate Professor</td>
<td>08/19/01</td>
<td>08/19/12</td>
</tr>
<tr>
<td>Smith, Ethan</td>
<td>Mathematical Sciences</td>
<td>Assistant Professor</td>
<td>08/09/09</td>
<td>08/19/12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RETIREMENT</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beckwith, Mary Ann</td>
<td>Visual &amp; Performing Arts</td>
<td>Professor</td>
<td>06/19/73</td>
<td>07/30/12</td>
</tr>
<tr>
<td>Givens, Clark</td>
<td>Mathematical Sciences</td>
<td>Professor</td>
<td>09/15/65</td>
<td>08/01/12</td>
</tr>
<tr>
<td>Hutzler, Neil</td>
<td>Civil &amp; Env Engineering</td>
<td>Professor</td>
<td>02/28/78</td>
<td>08/15/12</td>
</tr>
<tr>
<td>Lankton, Larry</td>
<td>Social Sciences</td>
<td>Professor</td>
<td>09/01/81</td>
<td>08/17/12</td>
</tr>
<tr>
<td>Wittanen, Dennis</td>
<td>Elec &amp; Comp Engineering</td>
<td>Professor</td>
<td>09/21/70</td>
<td>08/18/12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OFF PAYROLL</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caliskan, Cafer</td>
<td>Mathematical Sciences</td>
<td>Visiting Asst Professor</td>
<td>08/08/10</td>
<td>06/30/12</td>
</tr>
<tr>
<td>Enz, Nicholas</td>
<td>Visual &amp; Performing Arts</td>
<td>Instructor</td>
<td>08/10/08</td>
<td>05/04/12</td>
</tr>
<tr>
<td>Kamischke, Eric</td>
<td>Mathematical Sciences</td>
<td>Instructor</td>
<td>08/15/11</td>
<td>08/18/12</td>
</tr>
<tr>
<td>Kimball, Joel</td>
<td>School of Technology</td>
<td>Lecturer</td>
<td>08/13/06</td>
<td>08/18/12</td>
</tr>
<tr>
<td>Misson, Michael</td>
<td>Mathematical Sciences</td>
<td>Instructor</td>
<td>01/12/09</td>
<td>08/17/12</td>
</tr>
<tr>
<td>Ruark, Joshua</td>
<td>Mathematical Sciences</td>
<td>Instructor</td>
<td>08/15/11</td>
<td>08/18/12</td>
</tr>
<tr>
<td>Slocum, Maria</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/10/08</td>
<td>08/18/12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXEMPT</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bork, Christopher</td>
<td>MTTI</td>
<td>Software Engineer I</td>
<td>05/26/10</td>
<td>07/13/12</td>
</tr>
<tr>
<td>Carr, Steven</td>
<td>Computer Science</td>
<td>Department Chair</td>
<td>08/02/93</td>
<td>07/15/12</td>
</tr>
<tr>
<td>Gibson, Kenneth</td>
<td>Biological Sciences</td>
<td>Department Chair</td>
<td>07/01/09</td>
<td>06/30/12</td>
</tr>
<tr>
<td>Gonzalez, Carrie</td>
<td>General Athletics</td>
<td>Asst Coach Volleyball</td>
<td>08/10/09</td>
<td>06/30/12</td>
</tr>
<tr>
<td>Hagenbuch, Dennis</td>
<td>Kinesiology/Integrative Physiology</td>
<td>Director, Intramurals</td>
<td>08/29/88</td>
<td>06/21/12</td>
</tr>
<tr>
<td>Kangas, Jeffrey</td>
<td>Career Services</td>
<td>Associate Director</td>
<td>08/16/04</td>
<td>07/31/12</td>
</tr>
<tr>
<td>Malloy, Michael</td>
<td>Housing &amp; Residential Life</td>
<td>Residence Life Coordinator</td>
<td>06/06/11</td>
<td>07/06/12</td>
</tr>
<tr>
<td>Roth, Bonnie</td>
<td>Human Resources</td>
<td>Director of Employment Services</td>
<td>02/26/09</td>
<td>07/26/12</td>
</tr>
<tr>
<td>Sherman, Lori</td>
<td>Center for Diversity &amp; Inclusion</td>
<td>Assistant Director</td>
<td>01/02/02</td>
<td>06/29/12</td>
</tr>
<tr>
<td>Smith, Gary</td>
<td>Enrollment Services</td>
<td>Data Specialist</td>
<td>07/31/78</td>
<td>08/31/12</td>
</tr>
<tr>
<td>Strong, David</td>
<td>Admin Information Services</td>
<td>Sr. Programmer/Analyst</td>
<td>07/15/79</td>
<td>06/29/12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXEMPT – PT</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holles, Kirsten</td>
<td>Civil &amp; Env Engineering</td>
<td>Administrative Associate</td>
<td>01/21/05</td>
<td>05/26/12</td>
</tr>
<tr>
<td>Miller, Jennifer</td>
<td>Van Pelt and Opie Library</td>
<td>Catalog Librarian</td>
<td>02/10/03</td>
<td>07/01/12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NON-EXEMPT</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greer, Cathy</td>
<td>Van Pelt and Opie Library</td>
<td>Library Assistant 4</td>
<td>03/31/98</td>
<td>06/22/12</td>
</tr>
<tr>
<td>Korbry, Rita</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>10/03/02</td>
<td>07/04/12</td>
</tr>
<tr>
<td>Koskela, Diane</td>
<td>Info Tech Svgs &amp; Security</td>
<td>Info Tech Specialist</td>
<td>09/26/95</td>
<td>07/31/12</td>
</tr>
<tr>
<td>Smith, Rita</td>
<td>Career Services</td>
<td>Staff Assistant</td>
<td>10/16/89</td>
<td>08/31/12</td>
</tr>
<tr>
<td>Schmitt, Daniel</td>
<td>Univ Marketing &amp; Communication</td>
<td>Mail Svc Specialist</td>
<td>06/22/92</td>
<td>07/31/12</td>
</tr>
</tbody>
</table>
IV-E. 2013 Meeting Dates

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

Thursday, February 28, 2013  
Friday, May 3, 2013  (Commencement – Saturday, May 4)  
Thursday, August 1, 2013  (Alumni Reunion)  
Thursday, October 10, 2013  
Friday, December 13, 2013  (Commencement – Saturday, December 14)

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

V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

It was moved by T. Woychowski, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control adopts the Resolution of Appreciation for the following individuals:

1.) Clark Givens (47 years of service)  
2.) Dennis Wiitanen (42 years of service)  
3.) Mary Ann Beckwith (39 years of service)
Michigan Technological University
Houghton, Michigan

Board of Control of Michigan Technological University

In appreciation

Clark Givens

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

WHEREAS Clark Givens, 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-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 Board of Control extends appreciation and congratulations to this distinguished citizen and employee of Michigan Technological University.

[Signatures]

Michigan Technological University
Houghton, Michigan

Board of Control of Michigan Technological University

In appreciation

Dennis Wiitanen

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

WHEREAS Dennis Wiitanen, 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-two productive years; and

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

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

[Signatures]
V-B. Emeritus Rank

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

1.) Dr. Dennis O. Wiitanen, Professor Emeritus, Department of Electrical and Computer Engineering

V-C. Honorary Degree

It was moved by T. Baldini, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate of Philosophy to Dr. Arden L. Bement and Mr. David Barnes.

V-D. 2014 Five-Year Capital Outlay Plan

It was moved by P. Ollila, supported by L. Ashford, and passed by voice vote that the Board of Control approves the 2014 Five-Year Capital Outlay Plan to be submitted to the State of Michigan.
### Five-Year Capital Outlay Plan – FY 2014

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000’s)</th>
<th>State Funds (000’s)</th>
<th>Est. Const. Univ. Funds (000’s)</th>
<th>Start/End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Advanced Energy Research Laboratories</td>
<td></td>
<td>122,500</td>
<td>$19,872</td>
<td>$14,623</td>
<td>$5,249</td>
<td>2014 – 2016</td>
</tr>
<tr>
<td>2</td>
<td>Human Health Research Center</td>
<td>100,000</td>
<td></td>
<td>$35,000</td>
<td>$26,250</td>
<td>$8,750</td>
<td>2015 - 2017</td>
</tr>
<tr>
<td>3</td>
<td>Manufacturing Center</td>
<td>45,000</td>
<td>20,000</td>
<td>$21,000</td>
<td>$15,750</td>
<td>$5,250</td>
<td>2016 - 2018</td>
</tr>
</tbody>
</table>

### Capital Project Descriptions

#### Advanced Energy Research Laboratories

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 $19,872,000. It will include renovation and repurposing of existing structures. Dillman Hall would be renovated to provide space for the study of energy efficient buildings, building materials, transportation, and electrification. Renovation and repurposing of space in Fisher Hall and Chemical Sciences Building 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.

V-E. Appointment to the Michigan Tech Fund Board of Directors

It was moved by T. Baldini, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control appoints Stephen Hicks, Paul Ollila and Terry Woychowski to the Michigan Tech Fund Board of Directors.

V-F. Board of Control Silver Medal

The Administration and the Honors and Awards Committee is recommending that Dr. Blair Orr be awarded the Board of Control Silver Medal.

The Board of Control Silver Medal recognizes outstanding personal accomplishments of Michigan Tech alumni or friends of the university. Blair Orr's personal commitment, energy, tenacity, and insight made the Peace Corps Masters International (PCMI) programs on campus what they are today. Their prominence in the nation really is his personal achievement, as well as something that the whole university is proud of. Rarely does anything happen at a university that can be attributed to one person, but the PCMI program at Michigan Tech is clearly Blair's passion. What he has done is special in another way - and that is he has involved others and spread the work and credit for the program’s successes broadly. This will ensure that the program survives even after he is gone. It is clear he did things to benefit the university and our students and not just for his own personal gratification.

It was moved by J. Fream, supported by K. Clark, and passed by voice vote without dissent, that the Board of Control approves the awarding of the Board of Control Silver Medal to Dr. Blair Orr.

VI. REPORTS
A. University Senate Report – Dr. Bill Bulleit, President
B. Undergraduate Student Government Report – Mr. Eli Karttunen, President
C. Graduate Student Government Report – Mr. Kevin Cassell, President
D. Enrollment Report – Dr. Les Cook, Vice President for Student Affairs
E. FY12 Year-End Sponsored Programs Report – Dr. David Reed, Vice President for Research

Copies of these reports were included in the agenda book.
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

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