MINUTES

of the

Board of Trustees

Michigan Technological University

Houghton, Michigan

Meeting of

May 1, 2015
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MINUTES OF THE FORMAL SESSION OF THE BOARD OF CONTROL OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call 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 May 1, 2015.

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 1st day of May 2015, 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, J. Fream, and a quorum was declared present.

The following members of the Board of Control were present:

J. A. Fream, Chair  
P. G. Ollila, Vice Chair  
T. L. Baldini  
R. J. Jacquart  
B. L. Johnson  
L. D. Kennedy  
B. R. Ryan  
T. J. Woychowski  
G. D. Mroz, ex officio

The following members were absent:

None

Also present during part or all of the session were: Janet Hayden, Acting Secretary of the Board; Julie Seppala, Treasurer; Max Seel, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Ellen Horsch, Vice President for Administration; Les Cook, Vice President for Advancement and Student Affairs; 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

Acting Board Secretary, J. Hayden, recommended that item V-P. Board of Control Policy 7.3. Residency be added to the agenda.

It was moved by T. Woychowski, supported by B. Jacquart, and passed by voice vote without dissent, that the agenda of the formal session of May 1, 2015, as distributed to the Board, be approved as amended.

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. This spring we will be graduating 1,121 students, of which 825 are undergraduate students, 244 are master students and 52 are Ph.D. students.

Since the last Board meeting, many of our faculty, staff and students have been doing great things, and I wanted to take a few moments to highlight some of the more notable accomplishments.

In keeping with strategic plan Goal 1: A world-class and diverse faculty, staff and student population the Board would like to recognize several faculty members that have made significant contributions to Michigan Tech and their chosen field of study and are being recommended for promotion and/or promotion and tenure later in today’s meeting.

The candidates recommended for promotion from assistant professor without tenure to associate professor with tenure are: Amy Marcarelli, Biological Sciences, Ashutosh Tiwari, Chemistry, Shane Mueller, Cognitive & Learning Sciences, Scott Kuhl, Computer Science, Sue Collins, Humanities, Adam Wellstead and Richelle Winkler of Social Sciences, Joel Neves, Visual and Performing Arts, Zhuo Feng, Electrical and Computer Engineering, Caryn Heldt, Chemical Engineering, Thomas Oommen, Geological & Mining Engineering and Sciences, Ossama Abdelkhalik, Chang Kyoung Choi and Mohamad Rastgaar Aagaah of Mechanical Engineering-Engineering Mechanics; Andre Laplume, Junhong Min and Manish Srivastava of the School of Business and Economics and Joseph Bump of the School of Forest Resources and Environmental Science.

The candidate recommended for appointment from associate professor without tenure to associate professor with tenure is Jinshan Tang of the School of Technology.

The candidates recommended for promotion from associate professor with tenure to professor with tenure are: Casey Huckins, Biological Sciences, Shiyue Fang, Chemistry, Zhenlin Wang and Soner Onder of Computer Science, M. Ann Brady, Humanities, Will
Cantrell, Physics, Adrienne Minerick, Chemical Engineering, Brian Barkdoll, Civil & Environmental Engineering, Peter Moran, Materials Science & Engineering, John Vucetich, School of Forest Resources and Environmental Science, and John Irwin, School of Technology.

In addition:

- Dr. Gordon Parker, the John and Cathi Drake Professor in the Mechanical Engineering-Engineering Mechanics Department, has been selected as a 2014 Fellow of SAE International.
- MC (Mary Carol) Friedrich received the Midwest Section Member Award in acknowledgment of her years of devoted service to the United States Institute for Theatre Technology, The Barry M. Goldwater Scholarship and Excellence in Education Foundation has honored two Michigan Technological University biomedical engineering students. Mitchell Kirby, a third-year student, won a Goldwater Scholarship, and Dillon Gronseth, a second-year student, received honorable mention in the scholarship program, and
- For the first time, we had five team sports in NCAA Tournament Appearances: Hockey with their 1st NCAA Tournament appearance since 1981; Football in their 2nd ever NCAA Playoff bid; Women’s Basketball were the GLIAC Champions and NCAA Regional Host; Men’s Basketball with their 3rd straight NCAA Tournament appearance, and Women’s Soccer with their 2nd NCAA Tournament berth. In addition, the student athletes have a 3.25 GPA compared to the 3.04 GPA of the student body.

With respect to **Goal 2: A distinctive and rigorous discovery-based learning experience:**

- For the second year in a row, the School of Business and Economics’ Applied Portfolio Management Program team won the global investment competition at the Global Asset Management Education Forum V, hosted by Quinnipiac University in New York City. The event, held March 19-21, attracted more than 1,200 students from 140 colleges in 40 countries and 39 states.
- Michigan Tech ranked #30 in the nation among 1,123 colleges and universities evaluated by PayScale for their return on investment, the cost of the education compared to earnings after 20 years, and
- Six graduate engineering programs at Michigan Technological University rose in the annual graduate engineering specialty rankings by *US News and World Report*. Environmental engineering was ranked 38th in the nation, compared to 52nd last year. Electrical engineering was ranked 92nd, up from 114th last year. Mechanical engineering ranked 53rd, an 8-point rise over 2014, and biomedical engineering also saw an 8-point increase, to 63rd from 71st. Civil engineering rose five points to 63rd, and computer engineering rose two points to 95th in the nation, and.
- As our leaders in Washington debate college rankings systems, the Brookings Institute just published a new rankings formula that analyzes colleges and universities based on the “value-added” of their curricula. Michigan Tech ranks first in the state, second among public colleges and universities, and fourth nationally among all colleges and universities.
Goal 3: World-class Research, Scholarship & Entrepreneurship and Creativity include:

- John Vucetich, Associate Professor, and Rolf Peterson, Research Professor, of the School of Forest Resources and Environmental Science, received $450,000 from the National Science Foundation, for a project entitled, Instability, Contingency, and Global Change in a Terrestrial Food Chain.
- Michigan Tech has joined nine other campuses across the nation to test an innovative solution to the problem of STEM attrition, the loss of students enrolled in science, technology, engineering and mathematics. It's an initiative called #uifresh, and its goal is to expose all entering students to the concepts of design thinking, innovation and entrepreneurship. Michigan Tech's University Innovation Fellows are partnering with the University administration and the Pavlis Honors College to add that dimension to orientation.

As Max Seel will be returning to the faculty this fall, and as this is his last Board meeting in his role as Provost and Vice President of Academic Affairs, on behalf of the Board, we want to thank Max for his dedication, humor, and a finely honed skill set that made him so successful in leading the academic charge, and in working with the faculty, staff and students, in addition to his outstanding leadership in working with the Academic Affairs Committee and the Board. It was an honor and a pleasure to work with Max in his role as Provost, and we wish him all the best in his future teaching and research endeavors.

President’s Comments

I want to add my congratulations to all who are being promoted today. One of the more fun things Max and I get to do is to review the accomplishments and letters of support in the volumes you put together, and it’s a real source of energy to see the amazing things you are doing and how well respected those efforts are. And that brings me to the efforts of another person.

Close your eyes. Let me take you back to the dark, dark ages of December 2008. The world economy was failing. Michigan’s economy was worse. The State had already cut appropriations to higher education, and that would get worse over the years as well.

At Michigan Tech:
- There was no Pavlis Institute for Global Technological Leadership
- There was no Honors College
- There was no Information Learning Commons
- There was no Jackson Center for Teaching and Learning
- There was no Alliance for Computing Information Automation
- No Doctor of Physical Therapy Program
- No Nelson conference facilities for grad students
- No Great Lakes Research Center
- No Nucor Industrial Control and Automation Lab
- No Henes Physics labs
- No Humanities Digital Media Zone
No real home for the Mineral Museum
No Center for Computer Systems Research
No Wahtera Center for Student Success
No McAllister visitor center
No Advanced Power Systems Research Center

And, there was no Provost Seel until the next month.

Since then the number of named faculty positions increased from 13 to 29.

180 Tenured and Tenure Track faculty - over 50% of the total - who are here now were not here then.

The enrollment of master’s students was 496 and is now 852. PhD enrollment increased from 420 to 568. In total, the graduate school grew by 55% since 2009.

The Strategic Faculty Hiring initiative that accounted for 32 hires, in the areas of sustainability, computing, energy, health, water and transportation was in its formative stages.

And, we were far from the record numbers of women, under-represented minorities, and international students who now attend Michigan Tech.

On Max’s watch, 29 new degree programs were added; 14 bachelors, 10 Masters Programs and 5 doctoral programs. All with concentration on our vision to be relevant to the STEM world we live in as a top ranked research university, and 15 archaic degree programs were eliminated.

Now, being named Maximillian (the greatest) after a 3rd century Saint, who unfortunately was later martyred, (but that’s how you became a saint in those days) and both two Roman and two Bavarian emperors, his parents clearly had some expectations of him. But even so, you may be thinking how could he possibly do all the things that I have implied, and this isn’t even a comprehensive list.

The reality is better than that. He didn’t do it all himself. In fact, in some things he gave all his energy, in some his guidance, advice and counsel, in some his inspiration, in some he moved aside roadblocks, and when the path was right he always gave his encouragement, but he was always involved.

So if we were to dust for fingerprints on accomplishments we’d see a pattern more often than not, that they can be found in the right places, at the right times, to make things work. They barely show on some things, and are firmly implanted on others. Max has the invaluable skill of knowing when and how much to lead, and when and how much to support others to lead. Whether working with the Board, the Deans, the Senate, or the Exec Team, teaching us all what a cohesive team can do, which is to serve as stewards of the responsibility we have been entrusted with, to transform lives so that our students can do the same for others.
through their newly acquired and honed abilities to develop, understand, apply manage and communicate science and technology.

So that in the long run, we can change what must be changed while preserving the core values of Michigan Tech, so that Michigan Tech remains Michigan Tech.

Thanks Max. You’ve been a great teacher!

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Ms. Kennedy presented the follow report to the Board.

The Academic Affairs Committee met yesterday and reviewed the proposed new degree programs and the materials for the recommendations for promotion and/or tenure. It is quite an honor to be affiliated with a group of professionals that are on their way to, and having achieved, national prominence in their field. The Committee is recommending adoption of the recommendations in today’s agenda.

Provost Report

Provost Max Seel provided the Board with the following report.

Provost Report

Update on New 2014 Transdisciplinary Initiatives
&
Summary of New Degree Programs

Board of Control Meeting
May 1, 2015
Update on New 2014 Transdisciplinary Initiatives

(Forest) Biomaterials

H-STEM: Health Science, Technology, Engineering, and Mathematics

“An integrative force across Michigan Tech. bringing together research and education efforts at the STEM nexus to advance human health”

Entrepreneurship across the University

Center for STEM Education Research

Evolution of MiFBI

- **10-30-14**: MI Biomaterials Initiative Organizational Model Development Workshop
  - Recommendation to add “Forest” to Name of Michigan Biomaterials Initiative
  - Formation of Interim Board of Directors
- **02-19-15**: MiFBI Workshop on Policy
- **03-04-15**: Visits with Congress people on Capitol Hill
- **03-12-15**: MiFBI Board Formulates “ReFORGE Michigan”* to Secure Base Funding from State
- **03-16-14**: Visits with State Legislators in Lansing

(* REnewable FORest materials for a Green Economy)
MiFBI
Michigan Forest Biomaterials Initiative

- Current (Interim) Board:
  - Edward Becker – Friction and Wear Solutions, LLC
  - David DeYoe – Resource Trends Consultant
  - Jake Hayrynen – JM Longyear
  - Richard Kobe – Michigan State University
  - Lori Phalen – MI Association of Conservation Districts
  - Terry Sharik (Chair) – Michigan Technological University

- Current (Interim) Staff:
  - Mark Rudnicki (Exec Dir) – Michigan Technological University

Federal Funding Opportunities

- Farm Bill ("non-competitive")
- USDA-NIFA
  - McIntire-Stennis Act—Forestry Research
    - formula funding
  - AFRI—competitive funding
    - 38% increase in funding last year, $380M target
    - "Forest products as a strong contributor to the bioeconomy"
      - Two new Innovative Initiatives in FY 2016 at $45M each
        regarding (1) Biomanufacturing and (2) Nano-cellulosics

H-STEM Task Force Summary
(Jim Frendewey)

Benchmarking

- Stanford and Harvard-MIT
  Does not provide a road map that would be feasible to follow, but it does provide inspiration.
  How about schools that looked similar to us at some point in the past, but are now at the level we would consider targeting for 2035?

- Virginia Tech
  In 2001 Virginia Tech made a commitment to increase the level of NIH funding at the university in order to contribute to their goal of becoming a Top 30 research university.
Comparison of NIH Funding

Virginia Tech 2001-2014

Survey of Human Health Activities by Department
BME, ChE, ME-EM, SOT, KIP, Math, Bio, Phys, HU
25 Core Faculty
50 Peripheral

External Collaborators:
Mayo, U Illinois Chicago, Marshfield, Beaumont, U Chicago, Georgia Tech, Michigan State, U of Minnesota

Infrastructure:
Health Sciences and Medical Engineering Building = Capital Outlay Project #1
Center for Entrepreneurship  
(Lorelle Meadows, Gene Klippel, Jim Baker)

A CENTER FOR ENTREPRENEURSHIP AT MICHIGAN TECH

Join us as we transform our campus

ENTREPRENEURSHIP AND INNOVATION AT MICHIGAN TECH

Vision
A university campus where an entrepreneurial spirit thrives throughout the community, converting ideas into capital and success.

Mission
To harness the potential of the Michigan Tech community to innovate, develop and implement ideas and inventions by providing a strong ecosystem with a coherent set of entrepreneurial and innovation resources to enable success.

Phase I
- Creation of Center
- Appointing of Director
- Innovation Space 1
- Curricular Enhancement
- Undergraduate/Graduate Leadership Training
- Pitch and Non-Verbal Communication
- Speaker Series
- Annual Mentor Network

Phase II (Years 2 & 3)
- Faculty and Allied Program
- Program Grandmap
- Entrepreneurship Courses
- Entrepreneur and Innovation Organization
- Summer Student Innovation Internships

Phase III (Years 4 & 5)
- Innovation Space 1
- Visiting Masters in Residence
- Endowed Professor of Practice
- Graduate Entrepreneurship Fellows

We prepare students to create the future

Center for STEM Education Research  
(Susie Henderson-Amato, Jackie Huntoon, Lorelle Meadows)

$11 million in K12 related research in 2013-14;  
$5 million DOW foundation grant;

Pavlis Honors College Team (Raber, Berkey, Troesch), Engineering (Diebel) and IIE (Baker):  
awarded a 3-year $300,000 NSF I-Corps Site Grant to support entrepreneurial initiatives on campus.  
This project will adapt and apply the Lean Start-up methodology as a means to strengthen Michigan Tech’s innovation ecosystem and increase the success of startups and other commercialization activities.
New Degree Programs 2014-15

Master of Science Degree Program in Applied Physics
Graduate Certificate in Post-Secondary STEM Education
B.S. in Natural Resources Management
Concentration in Biomedical Applications within the degree Bachelor of Science in Electrical Engineering
Concentration in Environmental Applications within the degree Bachelor of Science in Electrical Engineering
Concentration in Computer Systems within the Bachelor's Degree in Computer Science

THANK YOU

“We are all transients to the scene of the University – students, alumni, faculty, administration, Board of Control, buildings, and even Tech's name. What really endures is an idea; the concept of an institution of higher learning. All that any of us can hope to accomplish is to utilize these transient things and beings to the best advantage in securing for Tech a reputation unquestioned and unexcelled in the present and for the future.”

Ray Smith, in accepting his appointment as president of Michigan Tech in 1964, 51 years ago

Dr. Seel thanked the Board, the Executive Team and all of his colleagues for giving him the chance to be part of that to reach this goal.

On behalf of the Academic Affairs Committee and the Board, Mr. Woychowski recognized Dr. Seel for his outstanding service to Michigan Tech. He further commented that “it has been a pleasure and an honor to work with you. Our work together on the Academic Affairs Committee has been a pleasure. Every conversation that I have ever had with Max, I left more enlightened, better educated, a little wiser and a lot more inspired.”

Research and Sponsored Programs Report

Dr. Dave Reed provided the Board with the following report.
Sponsored Program Summary
3rd Qtr FY15 Activities
May 1, 2015

Dave Reed
Vice President for Research

Outline

- Sponsored Awards, 3rd Qtr FY15
- Research Expenditures, 3rd Qtr FY15
- Intellectual Property/Commercialization, 3rd Qtr FY15
- Corporate Sponsorship, 3rd Qtr FY15
- Crowdfunding Update [superiorideas.org]

Sponsored Awards, 3rd Qtr FY15
Crowdfunding

- Crowdfunding: Numerous people individually contribute small amounts of money to collectively support a common goal.

- Superiorideas.org launched in October, 2012 by Michigan Tech as a crowdfunding site to collect charitable contributions to support research and public service activities.
Crowdfunding

- Minato (港区, Minato-ku), “Harbor”[1] is a special ward located in Tokyo, Japan. It is also called Minato City in English. As of 1 April 2013, it has an official population of 232,786[2] and a population density of 11,444.40 persons per km². The total area is 20.34 km²[3]. Minato hosts 49 embassies. It is also home to various companies, including Honda, Mitsubishi Heavy Industries, Ltd, Mitsubishi Motors Corporation, NEC, Sony[4], Fujitsu[5], and Toshiba.

- Chiyoda (千代田区, Chiyoda-ku) is a special ward located in central Tokyo, Metropolitan, Japan. In English, it is called Chiyoda City[6]. Chiyoda consists of the Imperial Palace and a surrounding radius of about a kilometer. As of October 2007, the ward has an estimated population of 45,543 and a population density of 9,912 people per km², making it by far the least populated of the special wards. The total area is 11.64 km², of which the Imperial Palace, Hibiya Park, National Museum of Modern Art, and Yasukuni Shrine take up approximately 2.6 km², or 23% of the total area.
B. Audit and Finance Committee Report

Mr. Baldini presented the Board with the following report.

The Audit and Finance Committee has met on three occasions, since the last board meeting.

The Committee reviewed the fiscal year 2015 year end projections, based upon the 3rd actuals, which shows net income in the General Fund being positive by $1 million and the Current Funds being positive by about $2.8 million. Both are solidly positive, which is great. We reviewed the University & Tech Fund blended balance sheet and the statement of cash flows which have improved over last year at this time. We are on sound financial footing.

Julie Seppala, the Treasurer of the Board of Control, will present a high level review of the Fiscal Year 15 3rd quarter financial results, after my summary.

As usual at this time of year, the Committee reviews the budget planning parameters utilized to build the Fiscal Year 2016 General Fund budget. There has been considerable planning and discussions during the development of the budget. A mid-year salary increase is built into the budget, along with the other parameters that Dr. Reed outlined in his report. We also have to say that because of the uncertainty at this point in the Legislature, we have set parameters, and we think we can meet those parameters and there may be some adjustments. The recommendation for the passage of the budget will authorize the Administration to make the appropriate adjustments within those parameters based upon the passage of the final State Appropriations Bill, and the Committee supports this recommendation.

We reviewed and discussed documents and plans in regards to funding construction and renovation. There is a resolution authorizing the issuance and delivery of general revenue bonds for capital improvements & renovation of $25 million and refunding $5.3 million of the 2008 bonds. Included in the resolution for the Board to approve are two capital projects that exceed the $3 million capital additions threshold stated in BOC policy 11.9. Those projects are the Daniell Heights renovation at $13.6 million and the Chemical Storage &
Labs project at $3.6 million. The Administration has kept reminding us as a Board that we have infrastructure responsibilities, and they are critical to the operation of the university. We have a $25 million bond proposal, and we feel comfortable that we are going to be able to meet the financial obligations. It is going to encompass a major renovation of Daniell Heights, which we consider a long term investment of a lot of the graduate students; McNair bathroom renovations, but as we know this is important for our students; chemical storage labs; University wide safety improvements; and Memorial Union retailing. I would like to commend the Administration for working very diligently and keeping this in front of us. The Audit & Finance Committee supports this recommendation.

Along with the General Fund Operating Budget and the resolution authorizing the issuance of general revenue bonds, we also reviewed these other action items for this Board meeting:

- Board of Control Policy – 8.5 Late Fee Assessment for Housing Payments
- The Strategic Plan
- Approval of External Auditor

The Audit & Finance Committee endorses the passage of all of these recommendations.

Other items reviewed by the Audit and Finance Committee:

- Internal Audit Open Audit Observations
- External Auditor Engagement Letter
- State Budget & Performance Transparency Reports
- FY15 General Fund Budget by Budget Unit
- Report on Continuous Improvement using Lean Principles

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.

Financial Report  
Board of Control Meeting  
Friday, May 1, 2015
Outline

- Condensed Statement of Net Position
- Revenue & Expense Projection
- Current Fund Balances
- Cash Flow Chart

Balance Sheet
Condensed Statement of Net Position as of March 31, 2015
(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSETS</td>
<td>$43,532</td>
<td>$5,854</td>
<td>$49,386</td>
</tr>
<tr>
<td>Current Assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td>340,143</td>
<td>240,143</td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>30,202</td>
<td>137,831</td>
<td>168,033</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>$321,897</td>
<td>$133,859</td>
<td>$455,756</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$27,098</td>
<td>$340</td>
<td>$27,438</td>
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<tr>
<td>Noncurrent Liabilities</td>
<td>79,095</td>
<td>5,125</td>
<td>84,220</td>
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<td>TOTAL LIABILITIES</td>
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<td>$3,965</td>
<td>$110,246</td>
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<tr>
<td>NET POSITION</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$161,494</td>
<td>$ -</td>
<td>$161,494</td>
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<tr>
<td>Other net position, restricted and unrestricted</td>
<td>55,092</td>
<td>129,220</td>
<td>184,312</td>
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<tr>
<td>TOTAL NET POSITION</td>
<td>$216,586</td>
<td>$139,220</td>
<td>$355,806</td>
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<tr>
<td>TOTAL LIABILITIES AND NET POSITION</td>
<td>$321,897</td>
<td>$133,859</td>
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</tbody>
</table>

Balance Sheet
Condensed Statement of Net Position Including GASB 68 Pension Liability as of March 31, 2015
(in thousands)

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<td>$ -</td>
<td>$161,494</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>55,092</td>
<td>129,220</td>
<td>184,312</td>
</tr>
<tr>
<td>TOTAL NET POSITION</td>
<td>$216,586</td>
<td>$139,220</td>
<td>$355,806</td>
</tr>
<tr>
<td>TOTAL LIABILITIES AND NET POSITION</td>
<td>$321,897</td>
<td>$133,859</td>
<td>$455,756</td>
</tr>
</tbody>
</table>
Current Fund FY15
(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>Original Projection</th>
<th>3rd Qtr Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$273,075</td>
<td>$270,336</td>
</tr>
<tr>
<td>Expense</td>
<td>($272,419)</td>
<td>($265,111)</td>
</tr>
<tr>
<td>Net Income</td>
<td>$662</td>
<td>$3,521</td>
</tr>
<tr>
<td>Current Fund Balance</td>
<td>$17,784</td>
<td>$9,948</td>
</tr>
</tbody>
</table>

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

Current Fund Balances
(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>Balance 06/30/13</th>
<th>Balance 06/30/14</th>
<th>3rd Qtr Projection 09/30/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CURRENT FUND BALANCE</td>
<td>$13,195</td>
<td>$17,121</td>
<td>$19,946</td>
</tr>
<tr>
<td>LEGALLY RESTRICTED FUNDS</td>
<td>($2,087)</td>
<td>($3,052)</td>
<td>($4,543)</td>
</tr>
<tr>
<td>UNRESTRICTED CURRENT FUND BALANCE</td>
<td>$10,008</td>
<td>$13,069</td>
<td>$15,403</td>
</tr>
</tbody>
</table>

CASH FLOW
Calendar Years
2014 & 2015 YTD
(dollars in millions)
Mr. Woychowski commented that when we look back in the last ten years when we went through the economic recession, it was devastating. In the United States when we lost 2 million jobs, Michigan lost one million, so we bore ½ of the burden that the country felt. When the country said we are in recession, we felt like it was a depression. That really left a mark on our state. I would like us to remember those lessons. We did weather that storm and it is fantastic to be here with a healthy balance sheet. However, I would hesitate to say let’s eat, drink and be merry, because we are strongly influenced by an automotive industry, and it is a cyclical industry and there will be another downturn – the question is when and how deep. I would like to encourage us to continue that fiscal stewardship.

Mr. Baldini added that those million jobs were very high paying jobs, and Michigan was the only state in the nation in the last census to show a loss of population. It was a very difficult and challenging time. As we were reviewing the finances, we always think about what does next year and the year after have to do in terms of salary commitments, research, maintenance and things of that nature. Mr. Baldini also mentioned that the Governor has proposed in his recommendation to the Legislature, an increase in appropriations for universities and Michigan Tech. We are also being cautious as an institution knowing that the Legislature does not have to accept the Governor’s recommendation.

C. Leadership Committee

Mr. Baldini reported that the Leadership Committee will be recommending that Julie Fream serve as Chair and Paul Ollila serve as Vice Chair.

IV. CONSENT AGENDA

It was moved by T. Woychowski, supported by R. Jacquart, 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. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the minutes of the formal session of February 19, 2015, as distributed to the Board, be approved.

IV-B. Gifts

It was moved by T. Woychowski, supported by R. Jacquart, 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, 2014 through March 31, 2015
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY15 YTD Total</th>
<th>FY14 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>11,221,727</td>
<td>6,825,100</td>
<td>4,396,626</td>
<td>63.4%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>95,553</td>
<td>142,288</td>
<td>-46,734</td>
<td>-32.8%</td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td>11,317,279</td>
<td>6,967,388</td>
<td>4,349,892</td>
<td>67.2%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>989,378</td>
<td>1,448,459</td>
<td>-459,082</td>
<td>-31.7%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>3,102,746</td>
<td>2,259,847</td>
<td>842,902</td>
<td>37.3%</td>
</tr>
<tr>
<td>Receipts from Previous Year Subtotal</td>
<td>4,092,127</td>
<td>3,706,306</td>
<td>385,821</td>
<td>10.4%</td>
</tr>
<tr>
<td>Total</td>
<td>15,409,406</td>
<td>10,475,893</td>
<td>4,933,713</td>
<td>47.1%</td>
</tr>
</tbody>
</table>

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2014 through March 31, 2015
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY15 YTD Total</th>
<th>FY14 YTD Total</th>
<th>FY14 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>4,725,317</td>
<td>2,758,164</td>
<td>3,282,814</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>79,494</td>
<td>128,972</td>
<td>292,286</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,404,386</td>
<td>1,442,278</td>
<td>1,870,512</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>8,005,087</td>
<td>8,961,558</td>
<td>11,975,620</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,255,575</td>
<td>1,202,878</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>8,673,572</td>
<td>6,763,023</td>
<td>9,139,661</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,123,570</td>
<td>1,000,092</td>
<td>2,013,404</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>3,277,762</td>
<td>530,587</td>
<td>576,537</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>183,340</td>
<td>329,884</td>
<td>366,660</td>
</tr>
<tr>
<td>Grand Total</td>
<td>26,679,169</td>
<td>23,771,433</td>
<td>31,011,370</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-C. Resignations, Retirements & Off Payroll

It was moved by T. Woychowski, supported by R. Jacquart, 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

(January 25, 2015 – April 14, 2015)

<table>
<thead>
<tr>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF PAYROLL</td>
</tr>
<tr>
<td>Vaara, Katrina</td>
</tr>
</tbody>
</table>

### Staff

#### EXEMPT

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Babcock, Mary B</td>
<td>Human Resources</td>
<td>Manager of Payroll Services</td>
<td>08/01/2011</td>
<td>02/14/2015</td>
</tr>
<tr>
<td>Chirmos, Johana M</td>
<td>Physics</td>
<td>Assistant Research Scientist</td>
<td>03/01/2003</td>
<td>03/31/2015</td>
</tr>
<tr>
<td>Cramer, Martin A</td>
<td>AE Seaman Mineral Museum</td>
<td>Museum Manager</td>
<td>06/08/2014</td>
<td>02/27/2015</td>
</tr>
<tr>
<td>Genignani, Thomas P</td>
<td>Information Technology</td>
<td>Campus IT Liaison</td>
<td>01/16/2002</td>
<td>02/11/2015</td>
</tr>
<tr>
<td>Haastrop, Oluwatomisin A</td>
<td>Human Resources</td>
<td>Business Analyst</td>
<td>07/29/2013</td>
<td>01/30/2015</td>
</tr>
<tr>
<td>Larson, Carel A</td>
<td>General Athletics</td>
<td>Director, New Media</td>
<td>10/22/2013</td>
<td>04/10/2015</td>
</tr>
<tr>
<td>Maynard, Thomas W</td>
<td>Center for Pre-College Outreach</td>
<td>Coordinator – Mind Trekkers</td>
<td>12/30/2012</td>
<td>03/28/2015</td>
</tr>
<tr>
<td>Pitcha, Justin J</td>
<td>Univ. Marketing &amp; Comm.</td>
<td>Videographer</td>
<td>01/05/2001</td>
<td>03/17/2015</td>
</tr>
<tr>
<td>Richards, Robert M</td>
<td>Center for Diversity &amp; Inclusion</td>
<td>Assistant Director</td>
<td>05/12/2014</td>
<td>03/04/2015</td>
</tr>
<tr>
<td>Ruonavaara, Nils P</td>
<td>Keweenaw Research Center</td>
<td>Engineer/Scientist</td>
<td>02/11/1985</td>
<td>04/01/2015</td>
</tr>
<tr>
<td>Senapati, Sanghamitra</td>
<td>Institutional Analysis</td>
<td>Planning Analyst I</td>
<td>07/12/2010</td>
<td>01/30/2015</td>
</tr>
<tr>
<td>Walkainen, Dennis K</td>
<td>Univ. Marketing &amp; Comm.</td>
<td>Senior Content Specialist</td>
<td>04/18/1984</td>
<td>02/08/2015</td>
</tr>
</tbody>
</table>

#### EXEMPT PT

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phillips, Margaret L</td>
<td>Van Pelt &amp; Opie Library</td>
<td>Edu. &amp; Assessment Coord.</td>
<td>08/15/2010</td>
<td>02/19/2015</td>
</tr>
</tbody>
</table>

#### NON-EXEMPT

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anttila, Peter J</td>
<td>Facilities Management</td>
<td>Equipment Operator II</td>
<td>09/08/2003</td>
<td>02/20/2015</td>
</tr>
<tr>
<td>Blau, Marcia L</td>
<td>Dining Services</td>
<td>Cooks Helper</td>
<td>03/14/1997</td>
<td>02/15/2015</td>
</tr>
<tr>
<td>Hill, Teresa M</td>
<td>Career Services</td>
<td>Office Assistant 6</td>
<td>05/27/2014</td>
<td>01/30/2015</td>
</tr>
<tr>
<td>Kozukov, Kirill O</td>
<td>Information Technology</td>
<td>Help Desk Consultant</td>
<td>03/10/2014</td>
<td>03/02/2015</td>
</tr>
<tr>
<td>Lander, Yvonne M</td>
<td>Facilities Management</td>
<td>Office Assistant 5</td>
<td>10/22/1990</td>
<td>03/06/2015</td>
</tr>
<tr>
<td>Maki, Charles</td>
<td>Facilities Management</td>
<td>CHP Mechanic/Operator</td>
<td>08/25/2010</td>
<td>03/02/2015</td>
</tr>
<tr>
<td>Walkainen, John W</td>
<td>Information Technology</td>
<td>Help Desk Consultant</td>
<td>06/29/2014</td>
<td>02/18/2015</td>
</tr>
</tbody>
</table>

#### NON-EXEMPT-PT

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shebby, Jeremy</td>
<td>Athletic/Rec Facility Operations</td>
<td>Custodian</td>
<td>01/08/2014</td>
<td>03/12/2015</td>
</tr>
</tbody>
</table>

IV-D. Approval of External Auditor

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control authorizes the Treasurer to engage the certified public accounting firm Rehmann Robson to conduct the following audits for the fiscal year ending June 30, 2015:
1. The annual examination of the University's Financial Statements and Supplemental Information (all funds).

2. The annual examination of federal awards and federal student financial assistance programs, including Pell Grants, Education Opportunity Grants, Perkins Loans, College Work Study Programs and Part B Loans.

3. The financial audit of the University's intercollegiate athletics programs, as mandated by the National Collegiate Athletics Association.


V. ACTION/DISCUSSION ITEMS

V-A. Emeritus Rank

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

1.) Dr. Bahne Cornilsen, Professor Emeritus, Department of Chemistry
2.) Dr. Robert O. Warrington, Professor and Dean Emeritus, Pavlis Honors College, effective upon his retirement on January 5, 2016

V-B. Appointments, Not Involving Tenure and/or Promotion

It was moved by L. Kennedy, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Control approves the appointments listed herein. The appointments do not include tenure or promotion.

Appointment without Tenure for Two Years
Effective August 17, 2015

Xiaoqing Tang  Assistant Professor  Biological Sciences
Marina Tanasova  Assistant Professor  Chemistry
Adam Feltz  Assistant Professor  Cognitive & Learning Sciences
Kelly Steelman  Assistant Professor  Cognitive & Learning Sciences
Stefka Hristova  Assistant Professor  Humanities
L. Syd Johnson  Assistant Professor  Humanities
Scott Marratto  Assistant Professor  Humanities
Abraham Romney  Assistant Professor  Humanities
Zhiying Shan  Assistant Professor  Kinesiology & Integrative Phys
Tejin Yoon  Assistant Professor  Kinesiology & Integrative Phys
William Keith  Assistant Professor  Mathematical Sciences
Alexander Labovsky  Assistant Professor  Mathematical Sciences
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min Wang</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Yang Yang</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Ramy El-Ganainy</td>
<td>Assistant Professor</td>
<td>Physics</td>
</tr>
<tr>
<td>Melissa Baird</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Mark Rouleau</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Chelsea Schelly</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Bruce Lee</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Feng Zhao</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Zhen Liu</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engg</td>
</tr>
<tr>
<td>Daisuke Minakata</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engg</td>
</tr>
<tr>
<td>Pengfei Xue</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engg</td>
</tr>
<tr>
<td>Kuilin Zhang</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engg</td>
</tr>
<tr>
<td>Lucia Gauchia Babe</td>
<td>Assistant Professor</td>
<td>Electrical &amp; Computer Engg</td>
</tr>
<tr>
<td>Zhaohui Wang</td>
<td>Assistant Professor</td>
<td>Electrical &amp; Computer Engg</td>
</tr>
<tr>
<td>Jason Gulley</td>
<td>Assistant Professor</td>
<td>Geo &amp; Mining Engrg &amp; Sci</td>
</tr>
<tr>
<td>Nina Mahmoudian</td>
<td>Assistant Professor</td>
<td>Mechanical Engg-Engg Mechanics</td>
</tr>
<tr>
<td>Emanuel Castro Oliveria</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Joseph Wagenbrenner</td>
<td>Assistant Professor</td>
<td>School of Forest Res &amp; Environ Sci</td>
</tr>
<tr>
<td>Yushin Ahn</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
<tr>
<td>Seyyedmohsen Azizi</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
<tr>
<td>Chunming Gao</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
<tr>
<td>Scott Wagner</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
</tbody>
</table>

**Appointment without Tenure for One Year**

**Effective August 17, 2015**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas Werner</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Rebecca Schmitz</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Liang Song</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Molly Cavaleri</td>
<td>Assistant Professor</td>
<td>School of Forest Res &amp; Environ Sci</td>
</tr>
</tbody>
</table>

**V-C. Appointments, Involving Tenure and/or Promotion**

It was moved by W. Johnson, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the appointments involving tenure and/or promotion listed herein.

**Promotion from Assistant Professor without Tenure**

**to Associate Professor with Tenure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amy Marcarelli</td>
<td></td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Ashutosh Tiwari</td>
<td></td>
<td>Chemistry</td>
</tr>
<tr>
<td>Shane Mueller</td>
<td></td>
<td>Cognitive &amp; Learning Sciences</td>
</tr>
<tr>
<td>Scott Kuhl</td>
<td></td>
<td>Computer Science</td>
</tr>
<tr>
<td>Sue Collins</td>
<td></td>
<td>Humanities</td>
</tr>
<tr>
<td>Adam Wellstead</td>
<td></td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Richelle Winkler</td>
<td></td>
<td>Social Sciences</td>
</tr>
</tbody>
</table>
Appointment from Associate Professor without Tenure
To Associate Professor with Tenure

Jinshan Tang
School of Technology

V-D. Promotions

It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Control approves the promotions listed herein.

Promotion from Associate Professor with Tenure
to Professor with Tenure

Casey Huckins
Biological Sciences
Shiyue Fange
Chemistry
Zhenlin Wang
Computer Science
Soner Onder
Computer Science
M. Ann Brady
Humanities
Will Cantrell
Physics
Adrienne Minerick
Chemical Engineering
Brian Barkdoll
Civil & Environmental Engineering
Peter Moran
Materials Science & Engineering
John Vucetich
School of Forest Resources & Environmental Science
John Irwin
School of Technology

V-E. Appointment with Tenure

Dr. Kui Zhang is being recommended for appointment as Professor with tenure in the Department of Mathematical Sciences effective August 17, 2015. The recommendation for tenure has been endorsed by the Department and College Promotion and Tenure Committees, the Department Chair, the Dean, the Provost and the President.
It was moved by T. Woychowski, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Control approves the appointment of Dr. Kui Zhang as Professor with tenure in the Department of Mathematical Sciences effective August 17, 2015.

V-F. Approval for a Bachelor of Science in Natural Resources Management

Included herein is a proposal from the School of Forest Resources and Environmental Science is to establish a Bachelor of Science in Natural Resources Management. This proposed degree will develop students with the skills and training to solve 21st-century natural resource challenges, and manage ecosystems and renewable resources sustainably. In addition, the Bachelor of Science degree in Natural Resources Management will equip students with the knowledge, expertise, ethics, and perspective necessary to address complex environmental problems that relate to renewable natural resources.

Nationally, enrollment in Bachelor of Science majors in the area of natural resources and environmental or ecosystem management are eclipsing more specialized programs. For example, the Society of American Foresters, which accredits the School of Forest Resources and Environmental Science’s Forestry degree, developed accreditation standards for natural resource management majors for the first time in 2014. The proposed program aims to capitalize on this trend and anticipate future student interests and occupational trends. The job market for natural resource management is broader than our more specialized programs and this degree program provides a sound undergraduate education for students who wish to enter other areas of the job market or graduate school.

The proposed degree fits with goal 2 of the strategic plan. “GOAL 2: A distinctive and rigorous action-based learning experience grounded in science, engineering, technology, sustainability, business, and an understanding of the social and cultural contexts of our contemporary world.” Specifically, the proposed major integrates science, sustainability, business and the social and cultural contexts of natural resources and natural resource management.

The proposal has been endorsed by the Deans, the University Senate, the Provost and Vice President for Academic Affairs and the President. The University is seeking Board of Control approval to advance the proposal to the State Academic Affairs Officers.

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the Bachelor of Science in Natural Resources Management degree program.
V-G. Approval of Strategic Plan

Dr. Dave Reed provided the Board with the following report.

Strategic Plan 2015 Revision: Timeline and Process

David Reed
Vice President for Research

May 1, 2015

Strategic Planning Process and Timeline

- Planning discussions with BOC Academic Affairs Committee, Senate, Academic Forum, Staff Council, Exec Team, and BOC – Spring, 2014
- Campus Comment Period – August-September, 2014
- USG/GSG Discussions – September, 2014
- Deans’ Draft Revision – October, 2014
- Exec Team, Deans, Chairs, and Directors Revisions – December, 2014
- Informal Review with BOC – December, 2014

Strategic Planning Process and Timeline

- Senate Presentation – January, 2015
- Review of Comments and Revisions by Deans and Exec Team – February, 2015
- Informal Review with BOC – February, 2015
- Distribution of DRAFT Revised Plan to Campus Community – February, 2015
- Formal BOC Consideration and Approval – May, 2015
It was moved by T. Woychowski, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Control adopts the revised Michigan Tech Strategic Plan as presented herein.

Final Revision 02-27-2015

The Strategic Plan

We prepare students to create the future.

VISION

Michigan Tech will lead as a global technological university that inspires students, advances knowledge, and innovates to create a sustainable, just, and prosperous world.

MISSION

We deliver action-based undergraduate and graduate education and discover new knowledge through research and innovation. We create solutions for society’s challenges through interdisciplinary education, research, and engagement to advance sustainable economic prosperity, health and safety, ethical conduct, and responsible use of resources. We attract exceptional students, faculty, and staff who understand, develop, apply, manage, and communicate science, engineering, technology, and business to attain the goal of a sustainable, just, and prosperous world. Our success is measured by accomplishments and reputation of our graduates, national and international impact of our research and scholarly activities, and investment in our University.

GOAL 1: An exceptional and diverse community of students, faculty, and staff.

1.1 Exceptional academic and professional community.

- recruit, support, recognize, and graduate bright, motivated, and adventurous students;
- attract, retain, and support faculty and staff by providing recognition, rewards, and competitive compensation;
- provide professional development and leadership opportunities for students, faculty, and staff.

1.2 Diverse, inclusive, and collegial environment.

- promote inclusiveness and collegiality through openness, engagement, mutual respect, and understanding of diverse perspectives;
- provide a rich cultural environment and a welcoming campus;
- develop and implement initiatives to increase the diversity of students, faculty, and staff;
- pursue opportunities for dual-career faculty and staff;
- enhance work-life blending for all members of our community.

1.3 Exceptional services and infrastructure.

- promote a university-wide culture of safety, responsiveness, effectiveness, and efficiency;
- provide exceptional technology, library, and laboratory facilities that support education, research and innovation;
- create an aesthetic, sustainable, and effective infrastructure.
GOAL 2: A distinctive and rigorous action-based learning experience grounded in science, engineering, technology, sustainability, business, and an understanding of the social and cultural contexts of our contemporary world.

2.1 Integration of instruction, research, and innovation to achieve the University Student Learning Goals.
- provide research, service-learning, project-based, entrepreneurial, and international opportunities for students;
- promote mutual appreciation and collaborative opportunities across academic disciplines;
- continually review and update existing programs and develop new offerings in emerging disciplinary and interdisciplinary areas.

2.2 Transformative educational experience grounded in a residential-based technologically rich learning environment.
- encourage and support high quality, innovative, and effective instruction and experiences to enhance student learning;
- contribute to students’ development and application of critical thinking skills, creativity, leadership, collaborative skills, and ethical reasoning;
- enhance student learning through activities that promote long-term physical and mental health;
- foster healthy relationships and the ability to productively manage conflicts;
- enhance students’ communication skills as well as information, technology, and global literacies;
- encourage social responsibility and the understanding of public policy issues.

2.3 Education that responds to the needs and challenges of the 21st century.
- expand Ph.D. and master’s enrollments, degrees awarded, and scholarly productivity;
- improve access via non-traditional delivery of graduate programs;
- promote lifelong learning by providing opportunities for continuing education using appropriate delivery models.

GOAL 3: Research, scholarship, entrepreneurship, innovation, and creative work that promotes a sustainable, just, and prosperous world.

3.1 Growth in research, scholarship, and creativity.
- increase external support for research, scholarly, and creative activities;
- recognize and reward our accomplishments and promote them both internally and externally;
- encourage and support interdisciplinary activities;
- cultivate a community of research inspiration, productivity, and excellence;
- increase development and optimize maintenance of shared research facilities, library resources, equipment, and infrastructure;
- facilitate coordination of research activities to address problems of social significance;
- improve efficient management and administration of externally funded activities.

3.2 Economic and social development and innovation.
- create a culture of responsible innovation and entrepreneurship and expand entrepreneurship in undergraduate and graduate programs;
- support workforce development and social engagement through collaborative outreach and technology transfer;
- encourage and support technology commercialization and start-up businesses;
- expand international and cross-cultural engagement with universities, industries, non-governmental organizations, and governments.

V-H. Election of Chair and Vice Chair

It was moved by T. Baldini, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control elects Ms. Julie Fream as Chair and Mr. Paul Ollila as Vice Chair for the 2015-2016 fiscal year.
V-I. Committee Assignments

Chair Fream deferred making committee assignments until the August meeting.

V-J. Revisions to Board of Control Bylaws

In keeping with common practice among the national public universities, it is being recommended that the Board of Control revise their bylaws to also be known as Trustees. This proposed revision will not change the State Constitution, but will allow the Board to refer to themselves as “Trustees” or the “Board of Trustees”. Changing the name will not in any way change the Board members duties, powers or obligations, as those are all determined by the Constitution.

It was moved by T. Baldini, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control amends Chapter 1 Name of Institution of the Bylaws of the Board of Control as presented herein.

The amended policy shall read as follows:

CHAPTER 1
NAME OF INSTITUTION AND GOVERNING BODY

The name of this institution is Michigan Technological University.

Any policy, ordinance, procedure or document which refers to Michigan School of Mines, Michigan College of Mining and Technology, Michigan College of Science and Technology, derivatives or departments thereof, are determined to refer to Michigan Technological University.

The general supervision of the University, conduct of the University’s affairs, control of its property and direction of all expenditures from the University’s funds has been entrusted by the People of the State of Michigan to a Board of Control (herein and hereafter referred to as the “Board of Control”, “Board of Trustees” or “Board”), a body corporate appointed by the Governor by and with the advise and consent of the Senate.

This supersedes Board of Control Bylaws Chapter 1 Name of Institution dated July 15, 2010.

V-K. Revisions to 2015 Meeting Dates

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent that the Board of Control amends the 2015 meeting dates to change the October 15 meeting date to October 16, 2015.
V-L. FY 2015-2016 General Fund Operating Budget

Dr. Dave Reed provided the following overview of the proposed budget.

<table>
<thead>
<tr>
<th>FY16 General Fund Budget Planning Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Faculty and Staff Salary Pool</td>
</tr>
<tr>
<td>• Faculty Promotions</td>
</tr>
<tr>
<td>• Graduate Stipends</td>
</tr>
<tr>
<td>• Debt Service</td>
</tr>
<tr>
<td>• Fringe Benefits</td>
</tr>
<tr>
<td>• Contingency Reserve</td>
</tr>
<tr>
<td>• Undergraduate Scholarships</td>
</tr>
</tbody>
</table>

The general fund budget was developed based on assumptions regarding tuition and that there would be no increase in state appropriations. However, when the State budget is approved by the Legislature, if there are changes from these assumptions, the Administration is requesting that the Board allow them the flexibility to revise the budget to reflect a change in appropriations and/or tuition cap while continuing to maintain a balanced budget.

It was moved by T. Baldini, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Control approves the FY2015-2016 General Fund Operating Budget as presented, and authorizes the Administration to revise the general fund operating budget to reflect any increase in state appropriations and/or decreases in tuition cap while maintaining a balanced budget and informing the Board Audit and Finance Committee of any such changes that may be necessary.

V-M. Approval of Capital Projects and Resolution for Bonding

In support of the strategic plan goals to recruit, support, recognize, and graduate bright, motivated and adventurous students, and to provide exceptional facilities that support education, research and a safe, effective and efficient infrastructure, the Administration has identified several projects that need to be implemented. These projects include renovations to Daniell Heights; McNair Bathrooms; Chemical Storage and Labs; University Wide Safety
Improvements; Memorial Union Retail Dining; Central Heating Plant Fuel Tanks; and the IT Fiber Backbone.

As these projects are of upmost importance and need to be addressed as quickly as possible, the Administration is requesting that the University finance these projects through the issuance of bonds. As the Daniell Heights Renovation and Chemical Storage and Labs projects exceed the $3 million threshold for capital additions as stated in Board of Control Policy 11.9, the Administration is requesting that the Board approve these two projects, and the financing of all of these projects through the issuance of general revenue bonds.

It was moved by T. Baldini, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the Daniell Heights Renovation Project at a cost not to exceed $13.6 million and the Chemical Storage and Labs Project at a cost not to exceed $3.6 million, and further approves the Resolution Authorizing the Issuance and Delivery of General Revenue Bonds as presented.

RESOLUTION OF THE BOARD OF CONTROL OF MICHIGAN TECHNOLOGICAL UNIVERSITY
AUTHORIZING THE ISSUANCE AND DELIVERY OF GENERAL REVENUE BONDS AND PROVIDING FOR OTHER MATTERS RELATING THERETO

WHEREAS, the Board of Control of Michigan Technological University (the “Board”) is a constitutional body corporate established pursuant to Article VIII, Section 6 of the Michigan Constitution of 1963, as amended, with general supervision of Michigan Technological University (the “University”) and the control and direction of all expenditures from the University’s funds; and

WHEREAS, in the exercise of its constitutional duties and in order to properly serve the needs of students attending the University, the Board has authorized the acquisition, construction, installation and equipping of the capital improvements described in Exhibit A attached hereto (collectively, the “Projects”); and

WHEREAS, the Board has previously issued and has outstanding certain series of General Revenue Bonds payable from and secured by a lien on General Revenues (as hereinafter defined) (the “Prior Bonds”); and

WHEREAS, it may be appropriate and economic to refund all or portions of the outstanding Prior Bonds as shall be determined by an Authorized Officer (hereinafter defined) (the portions of the Prior Bonds To Be Refunded, if any, as determined by an Authorized Officer, is referred to herein as the “Bonds To Be Refunded”); and

WHEREAS, the financing of all or a portion of the costs of the Projects and the refunding of the Bonds To Be Refunded, if any, through the issuance of General Revenue Bonds of the Board will serve proper and appropriate public purposes; and

WHEREAS, in the exercise of its constitutional duties, and in order to control and direct prudently expenditures from the University’s funds, the Board determines it is
necessary and desirable to authorize the issuance of General Revenue Bonds (the “Bonds”), payable from and secured by a pledge of General Revenues, in order to provide funds that, together with other available funds, will be used to pay all or part of the costs of the Projects, to pay all or part of the costs of refunding the Bonds To Be Refunded, if any, and to pay costs incidental to the issuance of the Bonds and the refunding; and

WHEREAS, one or more trust indentures (collectively, the “Trust Indenture”) or loan agreements (collectively, the “Loan Agreement”) must be entered into by and between the Board and a trustee (the “Trustee”) or a direct placement lender, in either case to be designated by an Authorized Officer (hereinafter defined), pursuant to which the Bonds will be issued and secured; and

WHEREAS, it is necessary to authorize the Authorized Officers, or either of them individually, to negotiate the sale of the Bonds with an underwriter or group of underwriters to be selected by an Authorized Officer (collectively, the “Underwriter”) or with a direct placement lender to be selected by an Authorized Officer (the “Purchaser”) and to enter into one or more bond purchase agreements with the Underwriter or Purchaser (collectively, the “Bond Purchase Agreement”), setting forth the terms and conditions upon which the Underwriter or the Purchaser will agree to purchase the Bonds and the interest rates thereof and the purchase price therefor; and

WHEREAS, in order to be able to market the Bonds at the most opportune time, it is necessary for the Board to authorize the President and the Executive Director of Financial Services and Operations and Treasurer (each an “Authorized Officer”), or either of them individually, to negotiate the terms of and to execute and deliver on behalf of the Board, the Trust Indenture or Loan Agreement, the Bond Purchase Agreement, one or more remarketing agreements with the Underwriter or remarketing agent selected by an Authorized Officer (collectively, the “Remarketing Agreement”), and other related documents, to establish the specific terms of the Bonds and to accept the offer of the Underwriter or Purchaser to purchase the Bonds, all within the limitations set forth herein; and

WHEREAS, the Executive Director of Financial Services and Operations and Treasurer shall, on or prior to the date of delivery of the Bonds, certify that the conditions for issuing the Bonds, secured by General Revenues on a parity basis with the Prior Bonds, have been met; and

WHEREAS, the Board has full power under its constitutional authority for supervision of the University, and control and direction of expenditures from the University funds, to acquire, construct, furnish and equip the Projects, to refund the Bonds To Be Refunded, if any, and to pay all or part of the costs of the Projects and the costs of the refunding by issuance of the Bonds, and to pledge General Revenues for payment of the Bonds.
NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF CONTROL OF
MICHIGAN TECHNOLOGICAL UNIVERSITY, AS FOLLOWS:

1. The Board hereby approves the definition of the term “Projects” as set forth on Exhibit A attached hereto, and authorizes the Authorized Officers, or either of them, to select the portions of the Projects to be financed, in whole or in part, from the proceeds of the Bonds, and to fund, as appropriate, the remaining portion of the costs of the Projects from available funds of the University or other available funds. The Board further approves the refunding of all or any portion of the Prior Bonds, and authorizes the Authorized Officers, or either of them, to select the portion, if any, of the Prior Bonds to constitute the Bonds To Be Refunded, based on whether such refunding would produce interest or other cost savings, a more favorable debt service structure or more favorable terms and covenants, and to proceed with the refunding.

2. The Board hereby authorizes the issuance, execution and delivery of the Bonds of the Board in one or more series to be designated GENERAL REVENUE BONDS, with appropriate series designations, in the aggregate original principal amount to be established by an Authorized Officer, but not to exceed the principal amount necessary to produce proceeds of Thirty Million Dollars ($30,000,000), plus the amount necessary to accomplish the refunding of the Bonds To Be Refunded and to pay costs related thereto. The Bonds shall be dated as of the date or dates established by an Authorized Officer, and shall be issued for the purpose of providing funds which, together with other available funds, will be used to pay all or a portion of the costs of the Projects, including, if determined to be appropriate by an Authorized Officer, capitalized interest related to all or a portion of the Projects for a period specified by an Authorized Officer, to pay all or a portion of the costs of refunding the Bonds To Be Refunded, if any, and to pay costs related to the issuance of the Bonds and the refunding, including the costs of bond insurance premiums, if an Authorized Officer determines such insurance to be appropriate. The Bonds shall be serial bonds or term bonds, which may be subject to redemption requirements, or both, as shall be established by an Authorized Officer, but the first maturity or mandatory redemption date shall be no earlier than November 1, 2015 and the last maturity shall be no later than December 31, 2047. The Bonds may bear interest at stated fixed rates for the respective maturities thereof as shall be established by an Authorized Officer, but the weighted average yield of the Bonds (computed using the stated coupon and the stated original offering price) shall not exceed 6.0% per annum for tax-exempt bonds and 8.0% per annum for taxable bonds, subject, in the case of Bonds sold to a Purchaser, to adjustments for increased costs of the Purchaser, rating changes and other specified factors, but in no event in excess of the lesser of 25% per annum, the maximum rate permitted by law or the maximum rate, if any, specified in the Trust Indenture or Loan Agreement. Alternatively, all or part of the Bonds may bear interest at a variable rate of interest, determined on the basis of an index or a spread to an index or through market procedures, or both, for all or a portion of their term, and the variable rate of interest shall not exceed the lesser of 25% per annum, the maximum rate permitted by law or the maximum rate, if any, specified in the Trust Indenture or Loan Agreement. The Bonds may be subject to redemption or call for purchase prior to maturity at the times and prices and in the manner as shall be established by an Authorized Officer, but no redemption premium shall exceed 3% of the principal amount being redeemed, unless the redemption price is based on a “make whole” formula, in which case the redemption premium shall not exceed 25% of the principal amount being redeemed. Interest on the Bonds shall be payable.
at such times as shall be specified by an Authorized Officer. The Bonds shall be issued in fully registered form in denominations, shall be payable as to principal and interest in the manner, shall be subject to transfer and exchange, and shall be executed and authenticated, and may be issued in book-entry-only form, all as shall be provided in the Trust Indenture or Loan Agreement. The Bonds shall be sold to the Underwriter or Purchaser for a price to be established by an Authorized Officer (but the Underwriter’s or Purchaser’s discount, exclusive of original issue discount, shall not exceed 2.00% of the principal amount thereof) plus accrued interest, if any, from the dated date of the Bonds to the date of delivery thereof.

Any or all of the Bonds may be made subject to tender for purchase at the option of the holder thereof or to mandatory tender for purchase. The obligation of the Board to purchase any Bonds subject to tender for purchase may be limited to the remarketing proceeds of such Bonds, or may be made payable from General Revenues, from available cash reserves of the University, subject to such limitations as may be specified in the Trust Agreement or Loan Agreement, or from a letter of credit, line of credit, standby bond purchase agreement or other credit or liquidity device (the “Liquidity Device”), or any combination thereof, all as shall be determined by an Authorized Officer and provided for in the Trust Indenture or Loan Agreement. Any reimbursement obligation for draws under the Liquidity Device shall be a limited and not a general obligation of the Board, payable from, and may be secured by a pledge of, General Revenues. Either Authorized Officer is authorized to execute and deliver at any time, for and on behalf of the Board, any amendments to the Trust Indenture or Loan Agreement and any agreements or instruments with a party or parties selected by an Authorized Officer necessary to obtain, maintain, renew or replace, and provide for repayments under, any Liquidity Device deemed by such officer to be required for the purposes of this Resolution.

3. The Bonds, and the obligations of the Board under the Liquidity Device, if any, shall be limited and not general obligations of the Board payable from and, except as provided below in this Section 3, secured by a lien on the General Revenues of the Board (as shall be defined in the Trust Indenture or Loan Agreement in a manner generally consistent with the definition thereof contained in the trust indentures pursuant to which the Prior Bonds were issued). Except as otherwise determined by an Authorized Officer, as provided below in this Section 3, the lien on General Revenues shall be on a parity basis with the liens on General Revenues securing the Prior Bonds and other previously issued obligations of the Board secured by a lien on General Revenues. The Bonds, and the obligations of the Board under the Liquidity Device, if any, may also be payable from and secured by a lien on moneys, securities or other investments from time to time on deposit in certain funds created pursuant to the Trust Indenture or Loan Agreement or agreements entered into in connection with the Liquidity Device.

No recourse shall be had for the payment of the principal amount of or interest or premium on the Bonds, or for the payment of any amounts owing under the Liquidity Device, if any, or any claim based thereon, against the State of Michigan, or any member or agent of the Board (including, without limitation, any officer or employee of the University), as individuals, either directly or indirectly, nor, except as specifically provided in the Trust Indenture or Loan Agreement or the instruments entered into in connection with the Liquidity Device, if any, against the Board, nor shall the Bonds and interest or premium with respect thereto, or any obligations of the Board in connection with the Liquidity Device, if
any, become a lien on or be secured by any property, real, personal or mixed, of the State of Michigan or the Board, other than General Revenues and the moneys, securities or other investments from time to time on deposit in certain funds established as pledged pursuant to the Trust Indenture or Loan Agreement or pursuant to agreements entered into in connection with the Liquidity Device, if any.

Any pledge of General Revenues, and funds specified in the Trust Indenture or Loan Agreement or in any agreements entered into in connection with the Liquidity Device, if any, shall be valid and binding from the date of the issuance and delivery of the Bonds or such agreements, and all moneys or properties subject thereto that are thereafter received shall immediately be subject to the lien of the pledge without physical delivery or further act. The lien of said pledge shall be valid and binding against all parties (other than the holders of any other bonds, notes or other obligations secured by a parity first lien on General Revenues) having a claim in tort, contract or otherwise against the Board, irrespective of whether such parties have notice of the lien.

Notwithstanding anything herein to the contrary, any obligations of the Board under any agreement with respect to the Liquidity Device may, if determined appropriate by an Authorized Officer, be payable and secured on a subordinated basis to the Bonds and other General Revenue obligations of the Board, or may be payable from General Revenues but be unsecured.

4. The right is reserved to issue additional bonds, notes or other obligations payable from General Revenues and secured on a parity or subordinated basis with the Bonds, the Prior Bonds and other obligations of the Board so secured by a lien on General Revenues, upon compliance with the terms and conditions therefor as shall be set forth in the Trust Indenture or the Loan Agreement.

5. Either Authorized Officer is hereby authorized and directed, in the name and on behalf of the Board, and as its corporate act and deed, to select the Trustee, if any, and to negotiate the terms of and execute and deliver the Trust Indenture or the Loan Agreement. The Trust Indenture or the Loan Agreement may contain such covenants on behalf of the Board and terms as such officers deem appropriate, including, but not limited to, covenants with respect to the establishment of General Revenues at levels expressed as a percentage of debt service on the Bonds or all General Revenue obligations of the Board, and with respect to the issuance of additional bonds, notes or other obligations payable from and secured by General Revenues. In addition, if the Underwriter determines that the present value of the interest cost savings to be produced by bond insurance will be in excess of the cost of bond insurance, either Authorized Officer is hereby authorized, empowered and directed to negotiate for the acquisition of bond insurance and to execute and deliver an insurance commitment or other documents or instruments required in connection with such insurance.

6. Either Authorized Officer is hereby authorized and directed, in the name and on behalf of the Board and as its corporate act and deed, to select the Underwriter or Purchaser and to negotiate, execute and deliver the Bond Purchase Agreement with the Underwriter or Purchaser setting forth the terms of the Bonds and the sale thereof, and containing such other covenants and agreements of the Board as may be required by the Underwriter or the Purchaser in connection therewith, in the forms as an Authorized Officer
may approve, all within the limitations set forth herein. Either Authorized Officer is hereby further authorized and directed, in the name and on behalf of the Board and as its corporate act and deed, to negotiate, execute and deliver the Remarketing Agreement, if any, with the Underwriter or other remarketing agent selected by the Authorized Officer.

7. Either Authorized Officer is hereby authorized, empowered and directed, in the name and on behalf of the Board, and as its corporate act and deed, to execute the Bonds by manual or facsimile signature, and to deliver the Bonds to the Underwriter or Purchaser in exchange for the purchase price therefor.

8. Either Authorized Officer is authorized to solicit ratings on the Bonds from any national rating services that the Authorized Officer deems appropriate and, if necessary, to cause the preparation of a Preliminary Official Statement and an Official Statement with respect to each series of the Bonds, to deem such official statements “final” in accordance with applicable law, and to execute and deliver the Official Statements. Either Authorized Officer, or the Underwriter, as appropriate, is authorized to circulate and use, in accordance with applicable law, the Preliminary Official Statements and the Official Statements in connection with the offering, marketing and sale of the Bonds.

9. The President, the Executive Director of Financial Services and Operations and Treasurer, the Secretary and any other appropriate officer of the Board or the University are each hereby authorized to perform all acts and deeds and to execute and deliver for and on behalf of the Board all instruments and documents required by this Resolution, the Trust Indenture or the Loan Agreement, the Remarketing Agreement, the Liquidity Device, or the Bond Purchase Agreement, or necessary, expedient and proper in connection with the issuance, sale and delivery of the Bonds, as contemplated hereby, including, if deemed appropriate, an escrow deposit agreement with an escrow agent to be selected by an Authorized Officer as may be necessary to accomplish the refunding of the Bonds To Be Refunded. Either Authorized Officer is authorized to designate and empower the escrow agent or the Underwriter to subscribe for United States Treasury Obligations, State and Local Government Series, on behalf of the Board, as may be necessary in connection with any refunding authorized hereby. Either Authorized Officer is further authorized to execute and deliver all instruments and documents for and on behalf of the Board or the University required, necessary or appropriate for the ongoing administration or operation of the financing program represented by the Bonds, the Trust Indenture or Loan Agreement, the Remarketing Agreement, the Liquidity Device and the Bond Purchase Agreement. Any action required under the Trust Indenture or Loan Agreement, the Remarketing Agreement, the Liquidity Device, the Bond Purchase Agreement, or any other instrument related to the Bonds, may be taken by and on behalf of the Board by an Authorized Officer. Any reference to an officer of the Board or the University herein shall include any interim or acting officer appointed by the Board.

10. In accordance with the requirements of Rule 15c2-12 of the United States Securities and Exchange Commission, the Board may be required in connection with the issuance of the Bonds to enter into a continuing disclosure undertaking for the benefit of the holders and beneficial owners of the Bonds. Either Authorized Officer is authorized to cause to be prepared and to execute and deliver, on behalf of the Board, a continuing disclosure undertaking.
11. Either Authorized Officer is hereby authorized and delegated the authority to execute, on behalf of the Board, a declaration of intent to reimburse University funds expended on the Projects, and on future projects, from the proceeds of the Bonds or other bonds to be issued in the future, all in accordance with Treasury Regulation § 1.150-2. Any and all actions of either of the Authorized Officers previously taken in connection with the execution of such a declaration are hereby ratified and confirmed.

12. Any resolutions or parts of resolutions or other proceedings of the Board in conflict herewith are hereby repealed insofar as such conflict exists.

I hereby certify that the attached is a true and complete copy of a resolution adopted by the Board of Control of Michigan Technological University at a meeting held on May 1, 2015, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with applicable law, and that the minutes of said meeting were kept and will be or have been made available as required by law.

I further certify as follows:

1. Present at the meeting were the following Board members:

__________________________________________________________________
__________________________________________________________________

Absent from the meeting were the following Board members:

__________________________________________________________________

2. The following members of the Board voted for the adoption of the Resolution:

__________________________________________________________________
__________________________________________________________________

The following members of the Board voted against adoption of the Resolution:

__________________________________________________________________

RESOLUTION DECLARED ADOPTED.

_________________________________
Secretary to the Board of Control
of Michigan Technological University
EXHIBIT A

PROJECTS

The Projects, as that term is used in the Resolution to which this Exhibit A is attached, consists of the following capital improvement items, as described below:

<table>
<thead>
<tr>
<th>Item</th>
<th>Currently Estimated Cost to be Funded from Bond Proceeds*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniell Heights Renovation Project</td>
<td>$13,600,000</td>
</tr>
<tr>
<td>McNair Bathroom Renovation</td>
<td>2,200,000</td>
</tr>
<tr>
<td>Chemical Storage and Labs</td>
<td>3,600,000</td>
</tr>
<tr>
<td>University Wide Safety Improvements</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Memorial Union Retail Dining</td>
<td>1,400,000</td>
</tr>
<tr>
<td>Central Heating Plant Fuel Tanks</td>
<td>1,500,000</td>
</tr>
<tr>
<td>IT Fiber Backbone</td>
<td>700,000</td>
</tr>
<tr>
<td></td>
<td><strong>$25,000,000</strong></td>
</tr>
</tbody>
</table>

* Exclusive of capitalized interest, if any, and bond issuance costs.

V-N. Board of Control Policy 8.5. Late Fee Assessments

Housing and Residential Life is requesting an increase in the current late fee assessed to residents living in the Daniell Heights apartments. The current late rent fee was approved by the Board of Control in 1988, and is a late fee of $10 assessed on the sixth day and an additional $10 on the sixteenth day of each month for a total of $20.00 each month of late rent payment. The feeling is that the current rate is so low that it does not discourage residents from being late with their rent payment. This change is being requested due to the significant number of residents who do not pay rent in a timely manner.

Currently, 40 residents (17%) pay rent late each month. Therefore, the Administration is proposing that the policy be amended to eliminate the $10.00 assessment on the 6th and 16th days of each month and replace it with an increased single fee of $50.00 which would encourage on-time payments and improve efficiency.

It was moved by B. Ryan, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Control amends policy 8.5. Late Fee Assessments as presented herein.
The amended policy shall read as follows:

8.5 Late Fee Assessments

Late Enrollment Processing Fee

Students who have not paid their account in full, have not made appropriate arrangements for deferred payment with the Accounts Receivable Office, or have not processed their billing statement by the Billing Statement Due Date will be assessed a $50.00 late fee.

Late Enrollment/Registration Fee

Continuing students who are not registered by the Billing Statement Due Date and subsequently register or students who have not processed their billing statement, have had their course schedule withdrawn and subsequently register will be assessed a $100.00 late enrollment/registration fee. The late enrollment/registration fee is not applicable Summer Term.

Late Payment Fee-non rental delinquencies

A $25.00 per month late payment fee will be assessed monthly throughout the semester during which the account balance was created on all accounts with balances, (excluding apartment rent charges which are covered only by Part D below) over $100.00 after the second billing due date. Students enrolled in the three payment plan will be assessed the monthly late payment fees commencing upon each failure to pay according to the contract schedule rather than on the second billing due date. In no event will total monthly late payment fees in excess of $100 be assessed for any late payment.

Late Rent Payment Fee - Daniell Heights Apartments

Late payment of Daniell Heights Apartment rent will be assessed a $50.00 late rent payment fee on the 11th day of each month when rent is not paid in full by the 10th day of the month.

This supersedes Board of Control policy 8.5. Late Fee Assessment dated July 15, 2010.

V-O. Approval of Revisions to Undergraduate Student Government Constitution

The USG began the mission to restructure its constitution over a year ago with one simple vision in mind: an organization that better represents its constituents in a more efficient, accountable, and accessible manner. The constitution being presented today represents a large amount of work on behalf of several USG members over this time period and was met with overwhelming approval from the student assembly.

The proposed major changes to the constitution include:

- Representation being changed so that voices from all over campus are heard.
- Future executive boards will have additional documented responsibility.
• The committee structure has been changed to allow representatives to focus on the most important parts of our work.
• Requirements for representatives have been increased.
• In the future, the document itself will be easier to edit by allowing USG to recommend changes directly to the Board of Control in case the Board changes its policies, and will reduce the voting requirement from 25% to 15% of the student body to vote on any changes in the future.

1,677 students voted (31.9% of the student body), and 1,576 (94%) of those that voted were in favor of the revisions, and 101 (6%) were opposed.

The USG is extremely proud of the work that is being presented and hopes that these changes will set the foundation for strong student governance here at Michigan Tech for years to come.

It was moved by P. Ollila, supported by B. Jacquet, and passed by voice vote without dissent, that the Board of Control approves the revisions to the Undergraduate Student Government Constitution. By its approval of this revision by the Undergraduate Student Government of its Constitution the Board of Control relinquishes none of its constitutional or statutory authority not does it adopt the revision or the Constitution as Board of Control or University Policy.

V-P. Board of Control Policy 7.3. Residency

To comply with the Veterans Access, Choice, and Accountability Act of 2014 (“Choice Act”), and be eligible to receive payments for educational programs, public institutions must offer in-state tuition and fees to all eligible individuals identified in the Choice Act by July 1, 2015.

The Administration is requesting that this policy be revised to include this federal requirement. The proposed language has been approved by the Michigan Veterans Affairs Agency.

It was moved by P. Ollila, supported by T. Baldini, and passed by voice vote without dissent, that the Board of Control amends policy 7.3. Residency as presented herein.

The amended policy shall read as follows:

7.13 Residency

Residents of the State of Michigan benefit from a lower tuition fee than is charged residents of other states. For the purposes of these regulations, a resident student is defined as a student that is domiciled in the state of Michigan. For University purposes, "domicile" is defined as the place where the student intends their true, fixed and permanent home (both during and after they complete their education at the University) and principal establishment to be, and to which the individual intends to return whenever he or she is absent. The fact that a
presumption of resident status may apply to a student does not mean that the student will automatically be classified as a resident. The burden of proving domicile, with clear and convincing evidence, is on the student.

A nonresident student is one whose domicile is elsewhere. Students who enroll in the University as non-residents shall continue to be so classified throughout their attendance as students unless residency reclassification is granted.

Special Circumstances

In-state tuition rates apply to the following persons regardless of domicile:

United States military veterans who have been honorably discharged and/or students entitled to educational assistance under Title 38 of the United States Code, as amended.

Residency Guidelines

The following facts and circumstances, although not necessarily conclusive, have probative value in support of a claim for residence classification:

Both parents (in the case of divorce, a parent) permanently domiciled in Michigan as demonstrated by permanent employment, establishment of a household and severance of out of state ties.

Applicant employed in the State in a full-time, permanent position provided that the applicant's employment is the primary purpose for the applicant's presence in Michigan.

Spouse employed in the State in a full-time, permanent position provided that the spouse's employment is the primary purpose for the student's presence in Michigan.

Continuous domicile in the state of Michigan, while not enrolled as a full-time student, for one full calendar year prior to reclassification.

If financially dependent, parent and/or guardian have become Michigan residents since the student's first enrollment.

Other factors indicating an intent to make Michigan the student's domicile will be considered by the University in classifying of a student.

The following circumstances, standing alone, shall not constitute sufficient evidence of domicile to effect classification of a student as a resident under these regulations:

- Continuous enrollment in a community college or university
- Participation in a graduate program, fellowship or internship
- Employment that is temporary or short-term
- Employment in a position normally held by a student
- Ownership of property
- Presence of relatives (other than parents)
Possession of a Michigan's driver's license or voter's registration
Payment of Michigan income or property taxes
Applicant's statement of intent to be domiciled in Michigan

Residence Status of Immigrants and Aliens

Only persons who are entitled to reside permanently in the United States may be eligible for resident classification at the University. These individuals, like U.S. citizens, must still prove that they have established a Michigan domicile as defined in the Michigan Technological University Residency Guidelines. Having the privilege of remaining permanently in the United States, in itself, does not entitle a person to resident classification for University purposes. The Admissions Office will review the circumstances of the following classes of immigrants:

- Permanent Resident Aliens who have been fully processed and possess a permanent resident alien card or stamp in their passport verifying final approval or
- Refugees (I-94 card must designate “Refugee”)

This supersedes Board of Control policy 7.3. Residency dated September 19, 2013.

VI. REPORTS
A. University Senate Report – Dr. Brian Barkdoll, President
B. Undergraduate Student Government Report – Mr. Andrey Merzlyakov, President and Nate Peterson, Incoming President
C. Graduate Student Government Report – Ms. Sasha Teymorian, President and Chelsea Nikula, Incoming President

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 comments at this time.

X. INFORMAL CLOSED SESSION FOR A PERIODIC PERSONNEL EVALUATION OF PRESIDENT MROZ

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control proceed into an informal 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:

Jacquot – Yes  Woychowski – Yes
Ollila – Yes  Ryan – Yes
Baldini – Yes  Johnson – Yes
Kennedy – Yes  Fream – Yes

The motion passed.

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

XI. ADJOURNMENT

It was moved by R. Jacquart, supported by P. Ollila, and passed by voice vote without dissent, that the meeting be adjourned.

___________________________________
Secretary of the Board of Control

___________________________________
Chair, Board of Control