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

Meeting of
October 16, 2015
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XI. Adjournment 10339
MINUTES OF THE FORMAL SESSION OF THE BOARD OF TRUSTEES 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 October 16, 2015.

The Board of Trustees 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 16th day of October 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 Trustees 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: Dale Tahtinen, Secretary of the Board; Julie Seppala, Treasurer; Jackie Huntoon, 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; George Butvilas, Chair of the Michigan Tech Fund, and various members of the faculty, administrative staff, student body, press and public.

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

Board Secretary, D. Tahtinen, recommended that item X Informal Closed Session for a Periodic Personnel Evaluation of President Mroz be changed to X. Informal Closed Session for a Periodic Personnel Evaluation of President Mroz and Real Property Transactions.

It was moved by W. Johnson, supported by T. Woychowski, and passed by voice vote without dissent, that the agenda of the formal session of October 16, 2015, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

I want to welcome everyone to our Fall Board of Control meeting. This is always such an exciting time as students, faculty and staff begin another academic year of stimulating learning and cutting edge research and discovery.

The summer was a busy time for visitors on campus.

- Dave Behen, Director of the Department of Technology, Management and Budget and David Nyberg, Governor Snyder’s U.P. Representative visited the Great Lakes Research Center and passed on a glowing report to Governor Snyder.
- Governor Snyder and Keith Creagh, Director of the Department of Natural Resources met with researchers and Executive Team members and toured the Great Lakes Research Center. The Governor and Director were very impressed with Michigan Tech’s research initiatives, and cooperative projects with industry.
- Other visitors to campus included, State Representative Mike McCready who represents the 40th district and is a member of the Appropriations Committee and is Chair of the Subcommittee on Higher Education; and State Representative Andy Schor who represents the 68th district and is a member of the Education Committee.

In addition to having our state officials visit campus, on October 7 Board members Tom Baldini, Bill Johnson, Linda Kennedy, Terry Woychowski and myself along with President Mroz and Dale Tahtinen, participated in Governor Snyder’s 2015 State Universities Summit. The Summit brought together Board members and Presidents from the four-year public universities to discuss the alignment of priorities and goals across institutions to drive a student-focused secondary to post-secondary system that improves career pathways for all students. It was a great opportunity to interact with Board members from the other universities and to provide input that will help shape Michigan’s educational system.

With respect to the strategic plan goal of attracting and retaining world-class people:

- President Mroz was appointed by Governor Snyder to the Michigan Education Trust Board of Directors for a three-year term. MET is a prepaid tuition program that helps Michigan residents save for higher education while avoiding rising tuition rates. The MET Board also serves as an advisory board for the Michigan Education Savings
Program, which is a college savings program that helps Michigan residents save for higher education.

As our strategic plan articulates several goals with respect to being recognized for our ability to inspire students and advance knowledge, Michigan Tech has received several recent rankings or ratings which include:

- SmartAsset, a New York financial technology company, ranked Michigan Tech 2\textsuperscript{nd} in the state for the higher average starting salary of its graduates.
- Michigan Tech ranks first among public universities in Michigan for mid-career salaries earned by its graduates. In Payscale.com’s latest College Salary Report, Michigan Tech also ranked 13\textsuperscript{th} national wide for mid-career salaries of graduates of public universities and 20\textsuperscript{th} in the nation for mid-career engineering salaries.
- Washington Monthly magazine’s College Guide ranked Michigan Tech 7\textsuperscript{th} in the nation for its ROTC program and 15\textsuperscript{th} for faculty receiving significant research grants. The magazine’s latest rankings also placed Michigan Tech in the top 25 percent of all national universities and the top 18 percent for students earning bachelor’s degrees who go on to earn PhDs.
- College Factual, a website member of USA Today’s College Partner Network, ranked Michigan Tech in the top 10 in the nation for bachelor’s degree programs in the general area of natural resources and conservation and 5\textsuperscript{th} in the nation for its forestry programs within natural resources and conservation.
- Congratulations to our students He Xuan and Sirawit Yumuang as they have been selected to showcase their artwork in the Art in the House program, and their artwork is currently on display in the Anderson House Office Building at the State Capitol. Art in the House is a partnership between the Michigan Association of State Universities and the Michigan House of Representatives to promote art in everyday life.

Contributing to the goal of world-class research, Laura Brown, Assistant Professor of Computer Science, Chee-Wooi Ten, Assistant Professor of Electrical and Computer Engineering, and Wayne Weaver, Associate Professor of Electrical and Computer Engineering, received $699,796 from the National Science Foundation, for a project entitled, Revolution through Evolution: A Controls Approach to Improve How Society Interacts with Electricity.

Before turning it over the President Mroz, I would like to congratulate all of those involved in the Parade of Nations, as I understand it was a great success. This is a wonderful way to bring the students and community together to share, celebrate and experience the many different cultures that come together to make Michigan Tech such a great place.

\textbf{President’s Comments}

Good morning and welcome.

As Chair Frem pointed out, we had a good time at the Governor’s conference. I would like to relate my experience in one of the breakouts sessions on matching student’s education to
workplace that Linda and I participated in. It was interesting to hear board members from other universities voices on the matter and anecdotes on how students graduate and don’t find employment, while other jobs go begging, and that universities don’t do a good job in making students aware of career opportunities.

As one of my former bosses Ed Frayer always said if you talk then you are not learning anything, so I bit my tongue and sat there for quite some time. As I was sitting there I felt like I was in a bit of a time warp, or some kind of alternate universe from the rest of the people in the room, except probably for Linda. Last year we had 466 recruiting organizations on campus, 783 interview schedules, 8,055 available interview slots.

This Fall we had 371 recruiting organizations, 1,300 recruiters, 370 interview schedules, and 4,196 available interview slots.

In fact at the low point in 2009, we had 260 recruiting organizations when placement dropped to 87% and it’s been climbing ever since, as we have emphasized a career focused campus community. We started the year with Career Fest that has so far seen Foundry Day, Energy, IT Day, Business Day, Auto Day, Steel Day, Mining Day, Career Success Day with PCA Career Success Day, Rail Day coming up and many others. We also publish a guide for people to see what our placement is for the different curricula we offer, including starting, median and top salaries.

The whole idea that universities aren’t doing their job in this regard, kind of fell on flat ears as I was sitting there. When we had our Career Fair this year, we had 3,000 students in that first rush. Importantly, 20% of those students were first year students. They were there because dean, faculty, department chairs told them that it is important and that they should be career focused at the beginning of their education.

This is a campus effort involving Career Services, the Deans, Chairs and Faculty who have connections to recruiting organizations, in addition to Corporate Services working with companies and national labs and government. In short, it’s everyone.

Thanks to all.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Ms. Kennedy reported that the Academic Affairs Committee substantive discussions about the three action items on the agenda today. One is the Emeritus Status for Professor Lumsdaine who was a former dean and was also a former director of innovation and the Committee is recommending that the Board grant emeritus status to Professor Lumsdaine.
Next, the Committee discussed the Honorary Degree for the Commencement Speaker Carrie Hessler-Radelet who is the Director of the Peace Corps and has a passion for philanthropy and global public health. Ms. Hessler-Radelet is an excellence choice as the Commencement Speaker and the Committee is recommending that the Board award the Honorary Degree in Philosophy to Ms. Hessler-Radelet.

The Committee also have an adjustment to the policy for second degrees earned at Michigan Tech for transfer students. Not too long ago we increased the number of credits that was required and this time we are also recommending that we accept them only from regionally accredited universities rather than accepted universities. We are putting a little more definition to what it means to get a degree from Michigan Tech when you started somewhere else.

The Committee also discussed the AGB Strategic Question #4 Is the Faculty Personnel Policy Aligned with the Strategic Plan? After some substantive discussion, the Committee agreed that the policy is aligned with our strategic plan and an action item from that discussion is increased communication with the Provost in matters as they develop.

The Committee heard a presentation on Quality Metrics including the shift of the State from the ACT to the SAT and what that means, what we measure, and the overall impact to the university. In addition, the Committee received a research update and heard from the Senate, the USG and the GSG.

**Provost Report**

Dr. Jackie Huntoon provided the Board with the following report.
Undergraduate Enrollment – Fall 2015

• 5,717 Undergraduate Students
  • 1,277 First-Time Freshmen
  • 184 First-Time Transfers
  • 4,097 Returning
  • 159 Other

• 26.8 Average ACT Score (Freshmen)
  • 27% Female
  • 7.2% Domestic URM
  • 4.3% International
  • < 1% Online

Graduate Enrollment – Fall 2015

• 1,521 Graduate Students
  (7th Consecutive Record Year)
  • 936 Master’s
  • 555 PhD
  • 30 Non-Degree

• 28% Female
• 4.5% Domestic URM
• 61% International
• 6% Online

Undergraduate Outcomes – FY 2015

• 1,158 Baccalaureate Degrees
  • 154 Cum Laude
  • 124 Magna Cum Laude
  • 56 Summa Cum Laude
• 68 Certificates

• Placement
  • 96% Total Placement (within six months of graduation)\(^1\)
  • 82% Full Time\(^2\)
  • 8% Graduate School\(^3\)
  • 6% Other Positions
  • 4% No placement\(^4\)

\(^1\) Placement rates based on 2015 Fall Freshman Enrollment
\(^2\) Full time rates based on 2015 Fall Freshman Enrollment
\(^3\) Grad rates based on 2015 Fall Freshman Enrollment
\(^4\) Placement rates based on 2015 Fall Freshman Enrollment
Graduate Outcomes and Funding – FY 2015

- **433** Graduate Students Graduated (Highest Number Ever)
  - 358 Master’s
  - 75 PhD

- **PhD Support**
  - 35% Self
  - 29% External
  - 36% Internal

- **Master’s Support**
  - 87% Self
  - 6% External
  - 7% Internal

Faculty and Researchers – FY 2015

- **339 T&TT Faculty**
  - 108 Full Professor
  - 124 Associate Professor
  - 107 Assistant Professor

- **114 N-T&TT Faculty**
  - 10 (Full, Assoc., Asst.) Professor
  - 53 Lecturer
  - 39 Instructor
  - 12 Professor of Practice

- **186 Researchers**
  - 166 Research Profs, Scis, Engrs
  - 20 Post-Docs

- **T&TT Faculty Demographics**
  - 26% Female
  - 22% Domestic URM

Faculty – FY 2015-16

**Tenured/Tenure-Track Faculty**
- **186 (55%)** New in Last 10 Years (FY 2015)

**23 New in Fall 2015**
- 3 School of Business and Economics
- 5 College of Engineering
- 15 College of Sciences and Arts

**Non-Tenure Track Professors, Instructors, Lecturers**
- **7 New in Fall 2015**
  - 1 School of Business and Economics
  - 3 College of Engineering
  - 3 College of Sciences and Arts
Faculty and Researchers – Fall 2014

Public High-Research Universities
Fall 2013

- 32%
- 27%
- 21%

Michigan Tech Fall 2014

- 16%
- 22%
- 13%

Some examples of the proud occupants of these positions!

Named Chairs & Professors

In Support of Gender Diversity and Sense of Belonging at Michigan Tech...

- ADVANCE Training – DLOW; Legal Aspects of Hiring; Kaizens for new proposal
- Campus Store – Dress for Success Shop
- C-Cubed (Conversation, Community, Collegiality) Luncheons
- Women’s Clothing Free-Sale: Donated by Faculty, Staff, Community Members, PCA, Etc.
### Sponsored Programs Report

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

**Sponsored Program Summary**
**Unaudited FY15 Activities**
**October 16, 2015**

David Reed  
Vice President for Research

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### Outline

- Sponsored Awards, Unaudited FY15
- Research Expenditures, Unaudited FY15
- Intellectual Property/Commercialization, Unaudited FY15
- Corporate Sponsorship, Unaudited FY15

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### Sponsored Awards, Unaudited FY15

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposed/Submitted</th>
<th>Awarded</th>
<th>Awarded/Gross</th>
<th>Revenue</th>
<th>Revenue %</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>116</td>
<td>107</td>
<td>99</td>
<td>12,008,100</td>
<td>11,700,000</td>
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<tr>
<td>US Department of Agriculture</td>
<td>56</td>
<td>32</td>
<td>28</td>
<td>2,692,200</td>
<td>1,682,200</td>
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<tr>
<td>University of Michigan</td>
<td>44</td>
<td>43</td>
<td>40</td>
<td>10,000,000</td>
<td>9,400,000</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>39</td>
<td>38</td>
<td>35</td>
<td>10,000,000</td>
<td>9,400,000</td>
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<tr>
<td>US Department of HHS</td>
<td>49</td>
<td>52</td>
<td>49</td>
<td>2,495,410</td>
<td>1,012,210</td>
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<tr>
<td>US Department of Transportation</td>
<td>27</td>
<td>21</td>
<td>17</td>
<td>2,957,044</td>
<td>1,297,313</td>
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<tr>
<td>Other Federal Agencies*</td>
<td>96</td>
<td>89</td>
<td>85</td>
<td>4,078,286</td>
<td>3,293,900</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>10</td>
<td>9</td>
<td>8</td>
<td>10,000,000</td>
<td>9,400,000</td>
</tr>
<tr>
<td>Foreign</td>
<td>27</td>
<td>16</td>
<td>7</td>
<td>1,000,000</td>
<td>910,000</td>
</tr>
<tr>
<td>ARRA/Other Sources</td>
<td>72</td>
<td>65</td>
<td>56</td>
<td>575,181</td>
<td>2,048,743</td>
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<tr>
<td>Gifts**</td>
<td>76</td>
<td>76</td>
<td>76</td>
<td>6,935,614</td>
<td>3,152,255</td>
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<tr>
<td>Earned Funding</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-103,179</td>
<td>-103,179</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td>552</td>
<td>498</td>
<td>498</td>
<td>27,889,619</td>
<td>16,632,284</td>
</tr>
</tbody>
</table>

*Note: Data includes sponsored awards, federal awards, state awards, other federal awards, other sponsored sources, gifts, and earned funding. The percentages represent the portion of sponsored revenue that each source contributes to the total sponsored revenue.
Student Affairs and Advancement Report

Dr. Les Cook provided the Board with the following report.
New student applications

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG applications</td>
<td>5,867</td>
<td>6,110</td>
<td>+243/4%</td>
</tr>
<tr>
<td>Grad applications</td>
<td>5,985</td>
<td>5,633</td>
<td>-322/5%</td>
</tr>
<tr>
<td>Total</td>
<td>11,852</td>
<td>11,743</td>
<td>-109/1%</td>
</tr>
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</table>
B. Audit and Finance Committee Report

Mr. Baldini presented the Board with the following report.

The Audit & Finance Committee has met twice since the last board meeting. It is that time of year where we reflect on last year, review what happened in the current year and start planning for next fiscal year.

1. We reviewed the 2015 year end closing, which shows net income in the general fund of $885k and the current fund being positive by $1.8M.

2. We discussed the fiscal year 2015 financial statements and the audit process with our external auditors, represented by Michelle Fowler, a principal within the Rehmann Robson firm. The financial statements include the University and the Michigan Tech Fund, as the Michigan Tech Fund is a component unit of the University. The FY15 blended net position shows a positive increase of $800k.

Julie Seppala, the Treasurer to the Board of Trustees, will present a high level review of the fiscal year 2015 financial results and our external auditor will then present their audit results after Julie’s presentation.

3. The committee reviewed an action item, the Five-Year Capital Outlay Plan and 2017 Capital Project request. The Audit & Finance committee supports the approval of this action, which is item V.D.

4. We also discussed preliminary Fiscal Year 2016 enrollment and tuition numbers.

Other items reviewed by the Audit & Finance Committee:
- Capital Projects Update
- Non-Mandatory Transfers greater than $500k
- Annual Report on Continuous Improvement Using Lean Principles

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.
Financial Report
Board of Trustees Meeting
Friday, October 16, 2015

Outline

- Condensed Statement of Net Position
- Current Fund Revenues & Expenses
- Current Fund Balances
- Cash Flow Chart

Balance Sheet
Condensed Statement of Net Position
as of June 30, 2015
(unaudited - in thousands)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Assets</td>
<td>$34,134</td>
<td>$4,797</td>
<td>$38,931</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>237,389</td>
<td>-</td>
<td>237,389</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>123,215</td>
<td>126,099</td>
<td>249,314</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>$394,558</td>
<td>$130,099</td>
<td>$524,657</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DEFERRED INFLOW/OUTFLOW OF RESOURCES</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred Inflow/Outflow of Resources</td>
<td>$3,394</td>
<td>-</td>
<td>$3,394</td>
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<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Current Liabilities</td>
<td>$25,688</td>
<td>$918</td>
<td>$26,606</td>
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<tr>
<td>Noncurrent Liabilities</td>
<td>119,186</td>
<td>4,011</td>
<td>123,197</td>
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<td>TOTAL LIABILITIES</td>
<td>$144,874</td>
<td>$4,929</td>
<td>$149,803</td>
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<table>
<thead>
<tr>
<th>DEFERRED INFLOW/OUTFLOW OF RESOURCES</th>
<th>University</th>
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<tbody>
<tr>
<td>Deferred Inflow/Outflow of Resources</td>
<td>$3,394</td>
<td>-</td>
<td>$3,394</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NET POSITION</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$158,586</td>
<td>-</td>
<td>$158,586</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>57,407</td>
<td>127,057</td>
<td>184,464</td>
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<tr>
<td>TOTAL NET POSITION</td>
<td>$158,586</td>
<td>$127,057</td>
<td>$285,643</td>
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Michigan Tech

Current Fund FY15
(unaudited - in thousands)

<table>
<thead>
<tr>
<th></th>
<th>Original</th>
<th>June</th>
<th>Unaudited</th>
</tr>
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<tbody>
<tr>
<td>Revenue</td>
<td>$273,076</td>
<td>$272,170</td>
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</tr>
<tr>
<td>Expense</td>
<td>$(272,413)</td>
<td>$(270,320)</td>
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<tr>
<td>Net income</td>
<td>$693</td>
<td>$1,845</td>
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<tr>
<td>Current Fund Balance</td>
<td>$17,784</td>
<td>$18,900</td>
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</tbody>
</table>

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

Michigan Tech

Current Fund Balances
(unaudited - in thousands)

<table>
<thead>
<tr>
<th></th>
<th>09/30/13</th>
<th>06/30/13</th>
<th>09/30/14</th>
<th>June Unaudited</th>
<th>06/30/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Current Fund Balance</td>
<td>$12,400</td>
<td>$13,100</td>
<td>$17,121</td>
<td>$10,960</td>
<td></td>
</tr>
<tr>
<td>Legally Restricted Funds</td>
<td>$(3,199)</td>
<td>$(2,597)</td>
<td>$(3,612)</td>
<td>$(4,991)</td>
<td></td>
</tr>
<tr>
<td>Subtotal Unrestricted Current Fund Balance</td>
<td>$8,801</td>
<td>$10,503</td>
<td>$13,509</td>
<td>$6,969</td>
<td></td>
</tr>
<tr>
<td>Unfunded Actuarial Accrued Pension Liability</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>$(20,440)</td>
<td></td>
</tr>
<tr>
<td>Unrestricted Current Fund Balance</td>
<td>$8,801</td>
<td>$10,503</td>
<td>$13,509</td>
<td>$(20,440)</td>
<td></td>
</tr>
</tbody>
</table>

Michigan Tech

Cash Balance by Month for Fiscal Years 2014-2016

Graph showing cash balance changes over time.
External Auditor’s Report

Ms. Michelle Fowler of Rehmann Robson reported that she met with the Audit and Finance Committee yesterday afternoon and provided them with a detailed presentation of the fiscal 2015 audit. The three reports that would have been presented to the Audit and Finance Committee would have been the Audited Financial Statements, Single Audit Report which would include all of the federal awards programs, and a communications letter which is required as part of the audit process to the Board. We went through those in detail and I’m happy to report the University received a clean opinion for both the financial statement audit as well as for the single audit. Also, as part of the single audit we didn’t have any types of findings. For the financial statements we did not have any internal control matters that we need to report to the Board, and we did not have any audit adjustments that needed to be recorded.

Ms. Fowler thanked the University for the assistance and cooperation that Rehmann Robson received during the audit process.

C. Leadership Committee

There was no report from the Leadership Committee at this time.

IV. CONSENT AGENDA

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees approve and adopt the items contained in the Consent Agenda.

IV-A. Approval of Minutes

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the minutes of the formal session of August 6, 2015, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.
Michigan Technological University Degrees Awarded for Conferal Term 2015-16

Bachelor of Arts in Theatre and Electronic Media Performance
Cathrine Paige Bonzi
Bachelor of Arts in English
Nicole Marie Kangas
Bachelor of Arts in Sound Design
Alex Richard Flannery - Summa Cum Laude
Bachelor of Arts in Physics
Christopher Anthony Tomano - Cum Laude
Brian Patrick Liederman
Bachelor of Science in Engineering Management
Joshua Todd McCleaf
Bachelor of Science in Finance
Helen Sarah Richards
Brandon Michael Hutchinson
Bachelor of Science in Management
Kevin Carlos De Las Heras
Bachelor of Science in Biomedical Engineering
Jenna Lyn Skrahre
Alex Michael Anderson - Cum Laude
Ethan N. Bell
Kyle A. Hamilton
Ross Albert Kihal
Alexis Anne Stuebel
Aden G. Tuperacy

Bachelor of Science in Chemical Engineering
Samantha Lefton-Livermore-Wagner
Christopher Lloyd Shocknessy

Bachelor of Science in Computer Engineering
Michael J. Hergert
Jadwiga Shem Kukolek
Bergen B. John Veltman

Bachelor of Science in Electrical Engineering
Justin Drake Charles Wright
Jake Raymond Paling - Summa Cum Laude
Zhengyang Gu
Ethan James Hill
Yunbing Shi
Alex Scott Ferguson

Bachelor of Science in Environmental Engineering
Kelley Suzanne Lark
Christopher John Carroll

Bachelor of Science in Geological Engineering
Cory Dean Callins
Troy James Foster
Jordan Thoe Johansen
Nicholas Michael Letzelter
Izak Geoffrey Lauer
JASON ALAN LYNCH - Cum Laude
Joel R. Mancewicz

Bachelor of Science in Mechanical Engineering
Marek A. Muenemann
Shawn Daniel Montgomery
Gansehao Qi
Haley Eyn Sheewith
Kenneth Richard Smith
Travis William Smith
Robert F. Stark
Jun Zuo

Bachelor of Science in Forestry
Brendan H. Lutkars

Bachelor of Science in Anthropology
Alexander Ryan Sprague
Dillon J. Wilkins

Bachelor of Science in Applied Physics
Mick Dean Small - Cum Laude

Bachelor of Science in Computer Science
Tylor Jason Adams
Dominic D. Delves
Ryan Travis George
Zachary A. Hepper
Elizabeth Amelina Maders
Cayce Nicole Bray - Summa Cum Laude

Bachelor of Science in Exercise Science
Paul Henry Kuypers
Ryan James Vanlandeghoch

Bachelor of Science in Mathematics
David Gerard Swenson

Bachelor of Science in Biochemistry and Molecular Biology
Katherine Erin Horan

Bachelor of Science in Medical Laboratory Science
Lyudmila Marine Bigelow
Danyelle E. Cleasten

Bachelor of Science in Psychology
Roger Michael Ellis
Kevin Lee Quinlan-Bostrom
Danica Antin-Gilmore
Morgan Irene Waltz

Bachelor of Science in Computer Network and System Administration
GeeRon Remen Ganner
Michael Christopher Divy
Michigan Technological University Degrees Awarded for Conferment Term 201506

Bachelor of Science in Mechanical Engineering Technology
Alexander Me

Christopher Charles John Oettle - Cum Laude

Matthew M Bretschneider

Master of Business Administration in Business Administration
Richard K Thorstenson

Catherine Anne Burr

Natalie Irene Chey

Cory Scott Ernst

Joseph Lawrence Gilkings

Christopher Warren Hatton

Mary Kathleen Hickey

Brian Patrick Hutner

Mason Franklin McGrew

Charles William Ouellette

Master of Science in Accounting
Xinrong Ouan

Trey Gerald Mech

Judy Beth Hixson

Jared Wilf Perzlen

Asht Eliean Stieglitz

Matthew Nicholas Verlin

Melanie Jean Welle

Ji Zhou

Master of Science in Applied Natural Resource Economics
Alexander Michael Beekler

Master of Science in Biomedical Engineering
Yuling Li

Annya Revindra Narke

Shehu Niyizan Salamah

Joseph Michael Smith

Chelsea Fagan

Baldev Raghurami

Master of Science in Chemical Engineering
Marchen Khatsuri

Shekha Ramting

Master of Science in Computer Engineering
Napur Sahni

Vignesh Pillimmappan

Aditya Parashar

Gregory Alan Price

GirishKumar Sekar

Vijay Krishna Thiranathakachery

Master of Science in Engineering Mechanics
Timothy Michael Fostler

Master of Science in Environmental Engineering
Alexandra Archer

Nathan Brevikner Arnold

Noah D Balmera

Olga Maria Caro

Luke Miklanen

Master of Science in Geological Engineering
Samantha Marga Justice

Master of Science in Geology
Tyler Mark Barnett

Pepeh Lin

Master of Science in Geophysics
Zhishi Wang

Yida Zegemann

Chao Heng

Master of Science in Mechanical Engineering
Sel Neelhiq Borler

Jonathan Lawrence Curtis

Gregory Adam Dwong

Rajat Deshpande

Pratiknarsh Prashant Deshpande

Lei Feng

Sinha Dash Murali

Chen Jia

Manjusha Jayawant Khatri

Sandesh Rajaguru Kudhar

Ganesh Pandavang Kunhedar

Chuanlong Li

Ashleash Mathi Someshwaran

Rahul Mohanty

Mohammadzah Nazari

Tipholiday Joseph Cikore

Krishnan Praghavan

Nizam Siddiqui
Michigan Technological University Degrees Awarded for Conferal Term 201506

Master of Science in Applied Ecology
Master of Science in Forest Ecology and Management
Master of Science in Applied Cognitive Science and Human Factors
Master of Science in Applied Science Education

Master of Science in Biological Sciences
Master of Science in Chemistry
Master of Science in Computer Science
Master of Science in Environmental and Energy Policy

Master of Science in Kinesiology
Master of Science in Mathematical Sciences
Master of Science in Physics

Master of Science in Rhetoric and Technical Communication

Master of Science in Industrial Archaeology
Master of Science in Integrated Geospatial Technology
Doctor of Philosophy in Biomedical Engineering
Doctor of Philosophy in Civil Engineering

Doctor of Philosophy in Chemical Engineering
Doctor of Philosophy in Electrical Engineering
Doctor of Philosophy in Geology
Doctor of Philosophy in Materials Science and Engineering

Doctor of Philosophy in Engineering - Environmental Engineering
Doctor of Philosophy in Forest Science

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

Doctor of Philosophy in Applied Cognitive Science and Human Factors
Doctor of Philosophy in Chemistry
Doctor of Philosophy in Mathematical Sciences
Doctor of Philosophy in Engineering-Physics
Doctor of Philosophy in Physics

Doctor of Philosophy in Rhetoric and Technical Communication
Doctor of Philosophy in Rhetoric, Theory and Culture

*Degree awarded 12/20/2014
IV-C. Gifts

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees acknowledges the gifts to Michigan Technological University.

Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2015 through September 30, 2015
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY16 YTD Total</th>
<th>FY15 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>5,193,327</td>
<td>1,781,293</td>
<td>3,412,032</td>
<td>191.5%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>18,095</td>
<td>643</td>
<td>17,452</td>
<td>2,718.1%</td>
</tr>
<tr>
<td><strong>Current Year Subtotal</strong></td>
<td>5,211,422</td>
<td>1,781,936</td>
<td>3,429,487</td>
<td>192.5%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>133,213</td>
<td>182,020</td>
<td>-48,807</td>
<td>-26.8%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>85,001</td>
<td>315,624</td>
<td>-230,623</td>
<td>-73.1%</td>
</tr>
<tr>
<td><strong>Receipts from Previous Year Subtotal</strong></td>
<td>218,214</td>
<td>497,644</td>
<td>-279,431</td>
<td>-56.2%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>5,429,638</td>
<td>2,279,582</td>
<td>3,150,056</td>
<td>138.2%</td>
</tr>
</tbody>
</table>
IV-D. Resignations, Retirements & Off Payroll

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees accepts the resignations and confirms the off payroll determinations.
# BOARD OF TRUSTEES OFF-PAYROLL REPORT  
(July 19, 2015 – September 25, 2015)

## RETIRED

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crowl, Daniel A.</td>
<td>Faculty</td>
<td>Chemical Engineering</td>
<td>Professor</td>
<td>01/01/93</td>
<td>08/14/15</td>
</tr>
<tr>
<td>Lumsdaine, Edward</td>
<td>Faculty</td>
<td>Mechanical Engineering-Mechanics</td>
<td>Professor</td>
<td>07/20/93</td>
<td>08/14/15</td>
</tr>
<tr>
<td>Labeau, Gregory P.</td>
<td>Non-Exempt</td>
<td>Facilities Management</td>
<td>Building Mechanic II</td>
<td>09/18/89</td>
<td>07/31/15</td>
</tr>
</tbody>
</table>

## OFF-PAYROLL

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bierbrauer, Juergen</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Professor</td>
<td>11/24/04</td>
<td>08/16/15</td>
</tr>
<tr>
<td>Cokely, Edward T.</td>
<td>Faculty</td>
<td>Cognitive &amp; Learning Sciences</td>
<td>Associate Professor</td>
<td>06/27/10</td>
<td>08/14/15</td>
</tr>
<tr>
<td>Gulley, Jason D.</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Assistant Professor</td>
<td>12/31/12</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Luse, Melissa M.</td>
<td>Faculty</td>
<td>Cognitive &amp; Learning Sciences</td>
<td>Instructor</td>
<td>08/20/12</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Peng, Ching-An</td>
<td>Faculty</td>
<td>Chemical Engineering</td>
<td>Professor/Mack Chair</td>
<td>09/15/08</td>
<td>08/14/15</td>
</tr>
<tr>
<td>Quivilk, Fredric L.</td>
<td>Faculty</td>
<td>Social Sciences</td>
<td>Professor</td>
<td>12/27/09</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Riehl, Jonathan T.</td>
<td>Faculty</td>
<td>Engineering Fundamentals</td>
<td>Senior Lecturer</td>
<td>08/09/09</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Schmitz, Rebecca J.</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Assistant Professor</td>
<td>08/07/11</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Shahbazian Yassar, Reza</td>
<td>Faculty</td>
<td>Mechanical Engineering-Mechanics</td>
<td>Associate Professor</td>
<td>08/20/07</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Shokuhfar, Tolou</td>
<td>Faculty</td>
<td>Mechanical Engineering-Mechanics</td>
<td>Associate Professor</td>
<td>12/26/11</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Wusinika, Ramakrishna</td>
<td>Faculty</td>
<td>Biological Sciences</td>
<td>Associate Professor</td>
<td>08/17/03</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Yordanov, Yordan S.</td>
<td>Faculty</td>
<td>School of Forest Resources &amp; Environmental Sciences</td>
<td>Research Assistant Professor</td>
<td>08/19/13</td>
<td>08/15/15</td>
</tr>
<tr>
<td>Anderson, Chris A.</td>
<td>Exempt</td>
<td>Information Technology</td>
<td>Help Desk Consultant</td>
<td>02/02/14</td>
<td>08/25/15</td>
</tr>
<tr>
<td>Barna, Jason A.</td>
<td>Exempt</td>
<td>Information Technology</td>
<td>Senior Application &amp; Systems Analyst</td>
<td>02/10/15</td>
<td>08/26/15</td>
</tr>
<tr>
<td>Graci, Samuel P.</td>
<td>Exempt</td>
<td>Information Technology</td>
<td>Help Desk Manager</td>
<td>07/09/11</td>
<td>08/12/15</td>
</tr>
<tr>
<td>Kauppila, Sheena A.</td>
<td>Exempt</td>
<td>Waimahna Center for Student Success</td>
<td>Assistant Director</td>
<td>01/13/14</td>
<td>08/13/15</td>
</tr>
<tr>
<td>Mileski, Jennifer T.</td>
<td>Exempt</td>
<td>Admissions</td>
<td>Assistant Director-Campus Visit Program</td>
<td>10/25/11</td>
<td>07/21/15</td>
</tr>
<tr>
<td>Peyton, Erica V.</td>
<td>Exempt</td>
<td>Housing and Residential Life</td>
<td>Residence Life Coordinator</td>
<td>08/11/14</td>
<td>07/19/15</td>
</tr>
<tr>
<td>Ryding, Marie A.</td>
<td>Exempt</td>
<td>Financial Aid Administration</td>
<td>Associate Director</td>
<td>11/18/05</td>
<td>09/13/15</td>
</tr>
<tr>
<td>Shannon, Scott M.</td>
<td>Exempt</td>
<td>University Marketing &amp; Communications</td>
<td>Digital Developer</td>
<td>09/04/07</td>
<td>08/07/15</td>
</tr>
<tr>
<td>Smith, Kurt C.</td>
<td>Exempt</td>
<td>Information Technology</td>
<td>Director of Telecommunications</td>
<td>08/01/09</td>
<td>08/04/15</td>
</tr>
<tr>
<td>Ellenich, Katy M.</td>
<td>Non-Exempt</td>
<td>Humanities</td>
<td>Administrative Aide 7</td>
<td>09/08/14</td>
<td>08/14/15</td>
</tr>
<tr>
<td>McKelvie, Karen E.</td>
<td>Non-Exempt</td>
<td>Memorial Union</td>
<td>Food Service Helper</td>
<td>09/19/13</td>
<td>07/14/15</td>
</tr>
<tr>
<td>Schultz, Engelene G.</td>
<td>Non-Exempt</td>
<td>Jackson Center for Teaching &amp; Learning</td>
<td>Office Assistant 3</td>
<td>03/13/12</td>
<td>09/02/15</td>
</tr>
<tr>
<td>Tassava, Mary L.</td>
<td>Non-Exempt</td>
<td>School of Forest Resources &amp; Environmental Sciences</td>
<td>Office Assistant 6</td>
<td>11/15/08</td>
<td>08/27/15</td>
</tr>
</tbody>
</table>
IV-E. 2016 Meeting Dates

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

- Friday, February 26, 2016
- Friday, April 29, 2016 (Commencement – Saturday, April 30)
- Thursday, August 4, 2016 (Alumni Reunion)
- Friday, October 14, 2016
- Friday, December 16, 2016 (Commencement – Saturday, December 17)

V. ACTION/DISCUSSION ITEMS

V-A. Emeritus Rank

It was moved by L. Kennedy, supported by T. Woychowski, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointment:

1.) Dr. Edward Lumsdaine, Professor Emeritus, Department of Mechanical Engineering-Engineering Mechanics

V-B. Honorary Degree

The Administration is recommending that Ms. Carrie Hessler-Radelet be awarded an Honorary Doctorate of Philosophy degree.

Carrie Hessler-Radelet is Director of the Peace Corps as of June 2014. She was initially appointed deputy director of the Peace Corps on June 23, 2010. She is a returned Peace Corps Volunteer (Western Samoa, 1981–83) with more than two decades of experience in public health focused on HIV/AIDS and maternal and child health.

Since 2010, Ms. Hessler-Radelet has spearheaded a comprehensive agency assessment and reform effort to improve efficiency across the organization—the first such endeavor since its founding in 1961. As deputy director, she led the roll-out of the Focus In/Train Up initiative, which provides targeted technical training to Volunteers to increase their capacity-building abilities. In her concurrent role as chief operating officer, she ensured the agency was a vigilant steward of government resources and taxpayer dollars. During her tenure, she has led the implementation of new policies and processes to improve the health and safety of Volunteers, including the requirements codified in the 2011 Kate Puzey Peace Corps Volunteer Protection Act and policies and programs aimed at reducing the risk of sexual assault and violent crime. She was instrumental in instituting the new Office of Global Health and HIV and the Global Health Service Partnership as well as led an effort to
overhaul Volunteer recruiting and engage more Volunteers in post-service public education activities.

Prior to her confirmation as deputy director, Ms. Hessler-Radelet was vice president and director of the Washington, D.C., office of John Snow Inc., a global public-health organization, where she oversaw the management of public-health programs in more than 85 countries. She was actively involved in the establishment of the President’s Emergency Plan for AIDS Relief (PEPFAR) and was a primary author of PEPFAR’s first strategic plan. She was also founder of the Special Olympics in The Gambia in 1986, which is still active there. Ms. Hessler-Radelet holds a master’s degree in health policy and management from the Harvard School of Public Health and a Bachelor of Arts in political science from Boston University. She also served as acting Director of the agency from September 2012 to June 2013.

Ms. Hessler-Radelet will be the Spring Commencement speaker.

It was moved by R. Jacquart, and supported by P. Ollila, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Ms. Carrie Hessler-Radelet.

V-C. Board of Trustees Silver Medal

The Board of Trustees Silver Medal is presented to persons who through personal and professional achievement, stand as outstanding examples to our more recent graduates.

The Administration is recommending that the Board of Trustees Silver Medal be awarded to John Calder.


From 1968-1975 he rose from Application and Field Service Engineer for the east coast to Regional Sales Manager for the Midwest and West Coast Regions. In 1975 he joined Dorsey-Alexander in Cincinnati, Ohio and in 1987 purchased the company. Dorsey-Alexander is a Manufacturer’s Agent for motion control, sensing and machine guarding safety products. In 1980 he co-founded Cincinnati Controls, Inc. which is a high tech distributor of microprocessors for motion control products and human-machine systems, and in 1992 he purchased 100% of the company. In 1985 he co-founded Integrated Manufacturing Control Systems, which developed motion and system software. In 1992 he became sole owner of Dorsey-Alexander. In 1992 he also purchased Zenith Engineering Sales Company, doubled the sales volume in two years and sold the business. In 1993 he purchased K.F. Narez, Inc., doubled sales volume in three years and sold the company. In 2003 he purchased Rilco Industrial Controls, Inc. and in 2006 he purchased Gorilla Storage Company. Currently he is CEO and owner of Cincinnati Controls, Inc.
John has been very active with Michigan Tech. He was a member the ME-EM Phase I Campaign Committee Building for the Future, and is currently a member of the President’s Advancement Council. John and his wife Joan have established the ME-EM Calder Systems and Controls Laboratory.

It was moved by R. Jacquart, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Trustees approve the awarding of the Board of Trustees Silver Medal to John Calder.

V-D. Five-Year Capital Outlay Plan and 2017 Capital Project Request

Mr. Baldini pointed out that we are asked by the State of Michigan to submit this request, however it doesn’t mean that the State will approve it and provide funding. It does put the State on notice as to what the University is looking for with respect to capital projects.

Mr. Woychowski asked if we needed a hospital, or medical infrastructure, to complete the mission of the Health Sciences and Medical Engineering Building project. Dr. Mroz stated that we would not need that here, but that we would need cooperative sites such as the Mayo Clinic and others. One of the things that we are looking at is growing that piece of the pie for research and for medical work going forward. It also fits in nicely with our strategy for attracting more women to Michigan Tech. When you look at chemistry/chemical engineering, we are about 36% female enrollment and over 50% in biomedical engineering. The cost of remodeling the chemistry and chemical sciences labs is also included in the project cost. When you look at what is happening in medical today, so much of it has to do with bringing the engineering, the business and the IT expertise, and not as much with the clinic aspect.

Mr. Woychowski also commented that when we consider such a building we need to consider not just the capital outlay but the on-going operational cost for such a facility, which would be significant.

With respect to the Integrated Student Maker Spaces, Mr. Woychowski is looking for advanced manufacturing technology, and doesn’t see that as part of the building project. Mr. Woychowski feels that this is missing strategically in this project request. Dr. Meadows, Dean of the Pavlis Honors College, and there is a committee looking at the opportunities on campus to create a maker environment, and that encompasses a broad spectrum of activities from very low fidelity maker and innovation space all the way up to the type of space that Mr. Woychowski is addressing. Our first step is the low fidelity, but the entire spectrum will be addressed by this committee.

As the capital outlay plan and project request needs to be aligned strategically and financially, this will be a topic that is kept at the forefront of the Board’s discussions and will be a possible topic for the upcoming retreat.
It was moved by T. Baldini, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Trustees approves the Five-Year Capital Outlay Plan and 2017 Capital Project Request to be submitted to the State of Michigan.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000's)</th>
<th>State Funds (000's)</th>
<th>Est. Const. Univ. Funds (000's)</th>
<th>Start/End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Health Sciences and Medical Engineering Building</td>
<td>100,000</td>
<td>25,000</td>
<td>$52,000</td>
<td>$39,000</td>
<td>$13,000</td>
<td>2017 – 2019</td>
</tr>
<tr>
<td>2</td>
<td>Integrated Student Maker Spaces</td>
<td>25,000</td>
<td>100,000</td>
<td>$25,000</td>
<td>$18,750</td>
<td>$6,250</td>
<td>2018 – 2020</td>
</tr>
<tr>
<td>3</td>
<td>Net-Positive Exergy Microgrid Research Building</td>
<td>80,000</td>
<td></td>
<td>$30,000</td>
<td>$22,500</td>
<td>$7,500</td>
<td>2019 - 2021</td>
</tr>
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</table>

**Capital Project Description**

**Health Sciences and Medical Engineering Building**

The construction of a new facility is proposed that will accommodate health-related science and engineering. The 125,000 square-foot facility of new space and renovation at an estimated cost of $52,000,000 will strategically support Michigan Tech’s investment in human health research. This building will bring together key faculty primarily from Biomedical Engineering, Kinesiology and Integrated Physiology, Chemistry, and other appropriate disciplines. Laboratories will be integrated where students at all levels can work together in a research-intensive environment in a safe facility constructed to modern standards. This will enable University health-related researchers and educators to work together in a synergistic engineering and science environment to train future practitioners and to develop the future of health treatments, practices, and devices.

**Integrated Student Maker Spaces**

The University proposes a set of integrated spaces for student hands-on experimentation and characterization, where they can work on independent teams, working closely with researchers and under strong supervision in a safe environment. The total project cost is estimated at $25,000,000, and will include both new construction and expansion or renovation of spaces for mid-level and advanced students (in Dillman Hall, M&M Building, Chemical Sciences Building, and Smith MEEM Building). The purpose is to encourage students to actively participate in hands-on design, construction, characterization, and testing of products and materials, and in studying and modifying the behavior of natural and built systems. There would be a facility for First-Year Engineering students (new construction and some renovation); facilities for mid-level undergraduates (mostly renovation and some expansion, providing for design, testing, characterization, and operations experience); and a facility for highly advanced undergraduates and early graduate students (providing a culminating experience). All engineering disciplines will be involved.

**Net-Positive Exergy Microgrid Research Building**

The Net-Positive Exergy Microgrid Research Building will be a facility (new construction) that is self-contained with an independent microgrid with electricity, fuel, water, and air flow inputs as well as heat, wastewater, and waste airflow outputs that produce more energy for the campus than the building itself consumes. Research in this new 80,000 square-foot facility at an estimated cost of $30 million will focus on combined architectural and environmentally sustainable design of intrinsically optimal buildings, grid-integration of renewable energy, and integration of energy storage systems; this will include dispatchable loads with intrinsic storage such as plug-in hybrid electric vehicles and water pumping. The researchers occupying this facility and/or conducting research in it will be from departments including Mechanical Engineering – Engineering Mechanics, Electrical and Computer Engineering, Civil and Environmental Engineering, Materials Science and Engineering, Computer Science, and Economics and Policy.
V-E. 13.2.4. Second Bachelor’s Degree

The University Senate updated the policy on second degrees in the 2010 academic year, with a subsequent revision in 2015, which was approved by the Provost and the President. The proposed revisions to the policy change the additional degree requirements from twenty five percent of the credits required to be replaced with a specific number of credits required (32), and to clarify that a degree earned at another institution must be an institution of higher education that is regionally accredited. It is being recommended that the Board of Trustees policy be revised to reflect these changes.

It was moved by L. Kennedy, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Trustees amends policy 13.2.4. Second Bachelor’s Degree as presented herein.

The amended policy shall read as follows:

13.2.4. Additional Baccalaureate Degrees

A student enrolled at Michigan Technological University and pursuing a Baccalaureate degree can earn an additional Baccalaureate degree or degrees at the same time if they:

- Satisfy the degree requirements for each Baccalaureate program.
- Earn at least 32 of the credit hours required for each additional degree through Michigan Tech without having applied those credits to any other baccalaureate or minor degree program. The academic unit offering the additional degree can allow course substitutions provided that the 32 credit hour minimum is maintained.

An enrolled student who already has earned a Baccalaureate degree (either from Michigan Tech or from a regionally accredited institution of higher education) can obtain an additional baccalaureate degree from Michigan Tech if they:

- Satisfy the degree requirements for the additional Baccalaureate program.
- Earn at least 32 of the credit hours required for the additional degree through Michigan Tech without having applied those credits to any other baccalaureate or minor degree program. The academic unit offering the additional degree can allow course substitutions provided that the 32 credit hour minimum is maintained.

This policy supersedes Board of Trustees policy 13.2.4. Second Bachelor’s Degrees dated August 7, 2014.
VI. REPORTS

A. University Senate Report

Board of Trustees Meeting

October 16, 2015

presented by
Brian Barkdoll, Senate President

Thanks for serving!!!

*We appreciate all your efforts and wisdom.
*We know that you have other responsibilities or could be doing something more fun.
*We offer our service as Senators to help you in any way we can.

Issues on our Plate

• Tuition waiver benefits
• Fringe benefits issues
• Academic calendar
• Accreditation
• President and Exec Team Evaluation
• Senate Evaluation
• Salary Study
Tuition Waiver Benefits

Quantify in terms of credits hours, not courses

Fringe Benefits Issues
(help in recruiting and retention)

* Opt-out instead of opt-in to encourage teammates to save for retirement.

  * Reduce medical care costs.

  * Retirement, 3% match, then 1:1 up to 6% to encourage teammates to save for retirement.

Academic Calendar

Time off for career fair. Perhaps move K-Day to Saturday?
University Accreditation and Assessment

How can we assess ourselves and get accreditation in the most efficient way?

Currently many volunteer hours are used and its hard to get the buy-in from the faculty.

People getting used to it, but still have concerns.

President and Exec Team Evaluation

Evaluation from last year will be presented and President Mroz has been invited to talk about it.

Senate Evaluation

The Senate will send out evaluation survey on itself later this year.
External Concerns

1. Massive Open Online Courses (MOOC)
2. State funding in light of federal budget deficits
3. Some states mandating lowering cost to students
4. Some states considering offering free community college tuition
5. Federal effort to reduce student debt
6. Community Colleges offering BS degrees
7. Reduced number of MI high school students
8. Aging buildings with little help from the State
9. University rankings based on loan repayment or graduation rates.

How can we get our salaries at least up to the national average??

We want to be one of the top universities in the nation, but this hurts us in retention.

Let’s analyze what it would take.

Study done by Senate and is available.

Blended Governance?
What can be done to break down any division among the Teammates and Administration?

Ideas from your own companies or experiences????
B. Undergraduate Student Government Report

Board of Trustees Update

Nate Peterson – President

Agenda

• Organizational Updates
  – E-Board

• Goals & Outlook

• Recent Events

Executive Board

Secretary – Greta

Treasurer – Braeton

President – Nate

Vice President – Daren
Focus Areas

- Internal Efficiency
- External Transparency
- Building Connections with the Campus Community

Committee Goals

- Updated Website
- Further Collaboration with Student Compliance
- Media Standards
- Consistent & Timely Communication
- Voter Registration
- Student Association of Michigan
  - Storage Barn Cleanup
  - School Break Bus
Outlook

- Relationships with Department Representation
- Connections with Senate & Administration
- Collaboration with other Michigan Schools
- Student Organization Resources

#mtuhumans

“My name is Nathan Siaiyen and I am from Nigeria. I get asked a lot why I came to Michigan Tech, but I chose this place because I fell in love with the environment and community. Everyone here is willing to help you out.”

Color Run

Michigan Tech Creates the Future
C. Graduate Student Government Report

Graduate Student Government of Michigan Tech

Presented by Chelsea Nikula

October 16, 2015

Board of Trustees
Michigan Technological University

GSG Representatives 2015

New Executive Board Member

Avinash Subramanian
PR Chair
Computer Science, M.S. Student
Summer 2015 Softball League

“A” League Champions: ITS
“B” League Champions: The Powers That Be

16 teams in 2 leagues
End of season picnic celebration had ~75 guests
Lots of fun had by all!

Orientation 2015

Assisted ~100 new international students on shopping trips upon their arrival
Hosted 2 Lunch ‘n’ Learns
Toured the Quincy Mine with new students
Hosted our annual Orientation Picnic with ~300 people in attendance

GSG Initiatives

Advocacy & Communication
Enrichment & Collaboration
Community & Awareness
Advocacy & Communication

Website Revamp
Our FR chair is developing a new website for us that will make it easier to use and maintain.
Expected launch: Late October 2015

University Events Calendar
We list all of our events on the University event calendar to maximize our reach

Open Forum
A student health insurance open forum will be held on Oct. 23. Students can learn about their insurance and have a chance to ask questions to experts.

Enrichment & Collaboration

Graduate Professional Development Evenings
Focus on Industry (Sept. 2)
Seeking a Job in Academia (Oct. 20)

Lunch ‘n Learns
All About Insurance (Sept. 23)
Want to be an Entrepreneur? (Oct. 6)
Lower Your Stress (Nov. 5)

Enrichment & Collaboration

Travel Grant Program
Summer 2015: 38 grants awarded totaling $9,400
Fall 2015: ~70 grants available, will be awarded in October

[Map of travel grants around the world]
Community & Awareness

K-Day
Interacted with new students and provided them with information on GSG

Constitution Day
Helped celebrate the U.S. constitution and engage with students

Career Fair
Hosted a booth at the Expo and After Hours Reception to network with companies hiring graduate students

Community & Awareness

Fall Socials

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>First Friday Social</td>
<td>Sept. 4</td>
</tr>
<tr>
<td>Waterfall Tour</td>
<td>Sept. 26</td>
</tr>
<tr>
<td>Fall Color Tour</td>
<td>Oct. 14</td>
</tr>
<tr>
<td>Halloween Party</td>
<td>Oct. 30</td>
</tr>
<tr>
<td>Gingerbread House Building</td>
<td>Nov. 14</td>
</tr>
</tbody>
</table>

Husky FAN

Food Pantry
Located in Harlan House
Hours: T, W, Sun 6-8 PM

Donated Guest Meal Swipes

Emergency Meal Packets
Available 24/7 at Public Safety

www.mtu.edu/huskyfan
VII. INFORMATIONAL ITEMS
A. Analysis of Investments
B. University Issued Bond Balances
C. Advancement Report
D. Recent Media Coverage
E. Employee Safety Statistics

Mr. Woychowski commented that he saw on the news an incident at the M&M Building and questioned if any injuries received were serious. Dr. Mroz stated that the students were treated and released and the injuries were minor in nature. Mr. Woychowski asked if the incident was being analyzed so that proper safety protocols and procedures would be put in place going forward. Dr. Mroz responded that corrective action will be implemented.

Mr. Woychowski also pointed out that there was a jump in the number of days in injury loss time and restricted work days and questioned the cause of that increase. Ms. Horsch reported that in the non-exempt category it was one case that caused the increase, and that employee is now back to work.

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 AND REAL PROPERTY TRANSACTIONS

It was moved by P. Ollila, supported by B. Ryan, 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 and real property transactions. (A closed session for such purposes is provided for in Sections 8 (a) and (d) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:
Jacquart – 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.
Log Lake Property and Easement Agreement

It was moved by T. Baldini, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Trustees authorizes the President: 1) to sell the Log Lake property, being the Southeast quarter of the Northwest quarter of section 4, and the East one half of section 4 (a/k/a government lots 1, 2, 3, 4 and 5), and the South half of the Southeast quarter of section 4, all in Township 48 North, Range 29 West, Township of Champion, County of Marquette, Michigan for a price of $610,000 on such further terms and conditions as are determined appropriate by the President, subject to all existing easements of record and to execute all documents required to complete the sale; and 2) to enter into an easement exchange agreement(s) on such terms as the President determines to be in the best interests of the University granting an easement for ingress and egress to third parties over University owned property in Sections 2, 14, 15 Township 49 North, Range 34 West, and in sections 18 and 19, Township 49 North, Range 33 West, Baraga Township, Baraga County, Michigan in exchange for easements granting the University ingress and egress to University properties in Marquette and Baraga Counties over the third party’s properties.

XI.  ADJOURNMENT

It was moved by T. Baldini, supported by B. Ryan, and passed by voice vote without dissent, that the meeting be adjourned.

_______________________________________
Secretary of the Board of Trustees

_______________________________________
Chair, Board of Trustees