AGENDA
Formal Session of the Board of Trustees
Michigan Technological University
9:00 a.m. – March 3, 2017
Ballroom B – Memorial Union Building

I. Approval of Agenda

II. Opening Remarks
   A. Chair’s Comments
   B. President’s Comments

III. Committee Reports
   A. Academic Affairs Committee
      - Provost Report-Dr. Jackie Huntoon, Provost & Vice President for Academic Affairs
      - Research and Sponsored Programs Report-Dr. David Reed, Vice President for Research
      - Student Affairs and Advancement Report-Dr. Les Cook, Vice President for Student Affairs and Advancement
   B. Developing a Safety Culture in a Lean Environment
      - Ms. Ellen Horsch, Vice President for Administration
   C. Audit and Finance Committee
      - Treasurer’s Report-Ms. Julie Seppala, Treasurer
   D. Leadership Committee

IV. Consent Agenda
   A. Approval of Minutes
   B. Gifts
   C. Resignations, Retirements and Off Payroll
   D. Degrees in Course

V. Action/Discussion Items
   A. Employee Recognition
   B. Emeritus Rank
   C. Exclusion Resolution for the Department of Defense
   D. Resolution Approving Conveyance of Property for the General Campus Renovations Project

VI. Reports
   A. University Senate Report - Dr. Martin Thompson, President
   B. Undergraduate Student Government Report – Mr. Samuel Casey, President
   C. Graduate Student Government Report – Mr. William Lytle, President
VII. Informational Items
   A. Analysis of Investments
   B. University Issued Bond Balances
   C. Research and Sponsored Programs Report
   D. Advancement and Alumni Engagement Report
   E. Recent Media Coverage
   F. Employee Safety Statistics
   G. Disposal of Surplus Property

VIII. Other Business

IX. Public Comments

X. Informal Closed Session for Review of Pending Litigation and a Periodic Personnel Evaluation of President Mroz

XI. Adjournment
I. APPROVAL OF AGENDA

RECOMMENDATION: That the Board of Trustees approves the agenda of the formal session of March 3, 2017 as distributed to the Board.
II. OPENING REMARKS

A. Chair’s Comments

B. President’s Comments
III. COMMITTEE REPORTS

A. ACADEMIC AFFAIRS COMMITTEE
   - Provost Report - Dr. Jackie Huntoon, Provost & Vice President for Academic Affairs
   - Research and Sponsored Programs Report – Dr. David Reed, Vice President for Research
   - Student Affairs and Advancement Report – Dr. Les Cook, Vice President for Student Affairs and Advancement

B. DEVELOPING A SAFETY CULTURE IN A LEAN ENVIRONMENT
   - Ms. Ellen Horsch, Vice President for Administration

C. AUDIT AND FINANCE COMMITTEE
   - Treasurer’s Report - Ms. Julie Seppala, Treasurer

D. LEADERSHIP COMMITTEE
Provost’s Report

Jackie Huntoon

March 3, 2017
30 Years of Continuous NSF Funding

Alexander Kostinksi
Professor of Physics

- PI for 16 awards totaling $1,703,862
- Specializing in Atmospheric Physics
- Instrumental in establishing Atmospheric Physics group

Droplet Dynamics: Raindrops Large and Small

“Giant raindrops such as the one shown here, held by astronaut Don Pettit on the space shuttle, are not observed in the atmosphere.” – Image ©NASA from Kostinski, A.B. and R. A Shaw (2009) Nature Physics.
New Accessible Technology Coordinator

Jeff Toorongian

• Need for Position
• Legal Risks to Michigan Tech
• Key Functions for the Coordinator
Chemical Stores Facility

Existing Area Re-purposed

Fall 2016 Enrollment & % Change from Fall 2015

- Undergrad: 5,829 (+1.9%)
- Masters: 904 (-3.4%)
- PhD: 514 (-7.4%)
% Change in Ugrad Enrollment: FY07:17 & FY16:17

Undergraduate

-42% 10%
0.5% 4%
5% 14%
-24% 1%
-12% 16%

-50% -40% -30% -20% -10% 0% 10% 20% 30%
Balancing teaching and research across the disciplines

### Proposals (PI)/Faculty

- SBE: 0.3
- COE: 3.2
- SFRES: 6.1
- CSA: 1.1
- SOT: 0.5

### Funded $ (PI)/Faculty

- SBE: $2,554
- COE: $154,795
- SFRES: $191,896
- CSA: $47,830
- SOT: $2,725

### Credit Hr/Faculty

- SBE: 394
- COE: 378
- SFRES: 428
- CSA: 167
- SOT: 222

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Formal Session of the Board of Trustees - III. Committee Reports
Thank you
Sponsored Program Summary
2nd Quarter FY17
March, 2017

David Reed
Vice President for Research
Outline

• Sponsored Awards, 2nd Quarter FY17
• Research Expenditures, 2nd Quarter FY17
• Intellectual Property/Commercialization, 2nd Quarter FY17
• Corporate Sponsorship, 2nd Quarter FY17
• Administrative Efficiency/Workload Reduction
Sponsored Awards, 2\textsuperscript{nd} Quarter FY17

Sponsored Awards Fiscal Year 2017  
2nd Quarter  
Ended December 31, 2016  
TOTAL: $28,876,949

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)

FYTD 2016: 28  
FYTD 2017: 21

\begin{itemize}
\item US Department of Defense: $6,258,638
\item US Department of Agriculture: $2,053,585
\item NASA: $1,181,411
\item National Science Foundation: $5,401,863
\item Industrial: $3,731,477
\item Foreign: $1,003,183
\item All Other Sponsors: $551,436
\item State of Michigan: $704,878
\item Other Federal Agencies*: $1,418,761
\item US Department of HHS: $1,218,099
\item US Department of Energy: $1,613,885
\item US Department of Transportation: $1,839,279
\end{itemize}
### Sponsored Awards, 2nd Quarter FY17

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposals Submitted</th>
<th>Awards Received</th>
<th>Awards Received ($)</th>
<th>Variance</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY '17</td>
<td>FY '16</td>
<td>FY '17</td>
<td>FY '16</td>
<td>FY '17</td>
</tr>
<tr>
<td>NASA</td>
<td>30</td>
<td>40</td>
<td>15</td>
<td>8</td>
<td>1,181,411</td>
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<tr>
<td>National Science Foundation</td>
<td>106</td>
<td>115</td>
<td>29</td>
<td>37</td>
<td>5,401,863</td>
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<tr>
<td>US Department of Agriculture</td>
<td>39</td>
<td>29</td>
<td>23</td>
<td>12</td>
<td>2,053,585</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>47</td>
<td>38</td>
<td>51</td>
<td>26</td>
<td>6,258,638</td>
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<tr>
<td>US Department of Education</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>329,907</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>16</td>
<td>16</td>
<td>10</td>
<td>12</td>
<td>1,613,885</td>
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<tr>
<td>US Department of HHS</td>
<td>14</td>
<td>11</td>
<td>8</td>
<td>5</td>
<td>1,218,099</td>
</tr>
<tr>
<td>US Department of Transportation</td>
<td>10</td>
<td>8</td>
<td>13</td>
<td>9</td>
<td>1,839,270</td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td>25</td>
<td>29</td>
<td>16</td>
<td>15</td>
<td>1,418,761</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>287</td>
<td>288</td>
<td>167</td>
<td>125</td>
<td>21,315,428</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>16</td>
<td>24</td>
<td>8</td>
<td>13</td>
<td>704,878</td>
</tr>
<tr>
<td>Industrial</td>
<td>112</td>
<td>100</td>
<td>101</td>
<td>106</td>
<td>3,731,477</td>
</tr>
<tr>
<td>Foreign</td>
<td>9</td>
<td>11</td>
<td>10</td>
<td>8</td>
<td>1,003,183</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>30</td>
<td>31</td>
<td>19</td>
<td>17</td>
<td>551,436</td>
</tr>
<tr>
<td>Subtotal</td>
<td>454</td>
<td>454</td>
<td>305</td>
<td>269</td>
<td>27,306,402</td>
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<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>152</td>
<td>180</td>
<td>1,564,540</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>4</td>
<td>8</td>
<td>6,007</td>
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<tr>
<td>Grand Total</td>
<td>454</td>
<td>454</td>
<td>461</td>
<td>457</td>
<td>28,876,949</td>
</tr>
</tbody>
</table>


**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.
Research Expenditures, 2\textsuperscript{nd} Quarter FY17

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2017</th>
<th>FY2016</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,980,775</td>
<td>2,198,980</td>
<td>781,795</td>
<td>35.6%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>11,087,618</td>
<td>12,758,079</td>
<td>(1,670,461)</td>
<td>-13.1%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>7,412,891</td>
<td>7,621,723</td>
<td>(208,832)</td>
<td>-2.7%</td>
</tr>
<tr>
<td>Great Lakes Research Center</td>
<td>73,028</td>
<td>N/A</td>
<td>73,028</td>
<td>N/A</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>111,326</td>
<td>113,267</td>
<td>(1,941)</td>
<td>-1.7%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>2,891,073</td>
<td>3,100,967</td>
<td>(209,894)</td>
<td>-6.8%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>3,916,244</td>
<td>4,394,103</td>
<td>(477,859)</td>
<td>-10.9%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>681,881</td>
<td>787,057</td>
<td>(105,176)</td>
<td>-13.4%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>2,712,454</td>
<td>2,347,146</td>
<td>365,308</td>
<td>15.6%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>238,303</td>
<td>280,835</td>
<td>(42,532)</td>
<td>-15.1%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32,105,593</td>
<td>33,602,157</td>
<td>(1,496,564)</td>
<td>-4.5%</td>
</tr>
</tbody>
</table>

*Includes the Vice Presidents, Provost, and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.
# Intellectual Property, 2\textsuperscript{nd} Quarter FY17

<table>
<thead>
<tr>
<th></th>
<th>FY17</th>
<th>FY16</th>
<th>+/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received</td>
<td>13</td>
<td>10</td>
<td>+ 30 %</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>48</td>
<td>55</td>
<td>- 13 %</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>5</td>
<td>7</td>
<td>- 29 %</td>
</tr>
<tr>
<td>License Agreements</td>
<td>10</td>
<td>6</td>
<td>+ 67 %</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>$172,535</td>
<td>$131,619</td>
<td>+ 31 %</td>
</tr>
</tbody>
</table>

Formal Session of the Board of Trustees - III. Committee Reports
Corporate Sponsorship, 2\textsuperscript{nd} Quarter FY17

Sponsored Awards - Industry - COMBINED
Fiscal Year 2017
2nd Quarter
Ended December 31, 2016

TOTAL: $7,929,731

- Defense & Space: $1,092,091
- Energy: $424,613
- Environmental: $86,055
- Health: $471,469
- Industrial Engineering: $143,085
- IT Services: $616,769
- Mining & Metals: $352,639
- Other: $167,322
- Technology: $85,430
- Automotive: $3,559,220
- Consumer Products: $377,636
- Civil: $156,399
- Chemical: $93,346
- Business & Economics: $303,657
Administrative Efficiency/Workload Reduction

– Benchmarking

– Project Payroll Certification

– Micropurchase Threshold
Benchmarking

FEDERAL DEMONSTRATION PARTNERSHIP (FDP)

2012 Faculty Workload Survey RESEARCH REPORT
Benchmarking - % Research Time Spent on Administrative Duties

<table>
<thead>
<tr>
<th></th>
<th>Michigan Tech (n=37)</th>
<th>Res High &lt; $80 MM</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposal Prep</td>
<td>15%</td>
<td>16%</td>
<td>15%</td>
</tr>
<tr>
<td>Pre-Award</td>
<td>4%</td>
<td>5%</td>
<td>7%</td>
</tr>
<tr>
<td>Post-Award</td>
<td>20%</td>
<td>17%</td>
<td>14%</td>
</tr>
<tr>
<td>Reporting</td>
<td>11%</td>
<td>9%</td>
<td>7%</td>
</tr>
<tr>
<td>Total</td>
<td>50%</td>
<td>48%</td>
<td>42%</td>
</tr>
</tbody>
</table>
Benchmarking

• Michigan Tech faculty responding to the survey felt they could recover 4.5 hours per week if given additional assistance with administrative duties.

• Given the small sample size, the Research Advisory Council (RAC) will be conducting a faculty survey to drill down deeper to: 1) verify the results; and 2) obtain more information on specific support needs.
Project Payroll Certification

• Under the leadership of Julie Seppala and Tammy LaBissioniere Michigan Tech was one of four schools nationwide (George Mason, UC-Irvine, UC-Riverside, Michigan Tech) that participated in the FDP’s Project Payroll Certification Pilot that developed an alternative method for certifying labor expended on federal projects.
Project Payroll Certification

• Based on the Pilot, the Office of Management and Budget revised federal regulations allowing all institutions to adopt the new method.

• Specifically, the results for Michigan Tech were:
  – A reduction of certification forms from 7,000 per year to 700 per year (90% reduction)
  – A reduction in administrative follow-up required from about 3,500 forms per year under the old method to about 35 forms per year under the new method (99% reduction)
Micropurchase Threshold

• Micropurchase Threshold
  – OMB issued a new regulation that would have required competitive bids and associated recordkeeping on all purchases from $3,000 and up on federal projects.
  – National university organizations collected data demonstrating that changing to a $10,000 threshold would still cover over 80% of the expenditure while exempting over 80% of the transactions.
Micropurchase Threshold

• Senator Peters was co-sponsor of the American Innovation and Competitiveness Act. Brent Burns, Director of Federal Relations, worked with Federal Science Partners and the Senator’s staff and an amendment raising the micropurchase threshold to $10,000 was added to the AICA.

• A similar effort was undertaken by others during the development of the Defense Authorization Act
Micropurchase Threshold

• The DAA was signed into law in December and the AICA was signed into law in January. These acts instruct OMB to revise the regulation to raise the micropurchase threshold to $10,000
Formal Session of the Board of Trustees - III. Committee Reports
Spring Enrollment 2005-2017
Executive Order 13769

• Signed January 27, 2017 and then revised/restated

• Overview:
The executive order prevents people from Iran, Iraq, Syria, Somalia, Libya, Sudan, or Yemen from applying for a new visa or changing to a different visa category, with the exception of diplomats and international officials, and bars re-entry to the U.S. for current visa holders.
It also suspends the U.S. Refugee Admissions Program for 120 days, with Syrian refugee admissions suspended indefinitely. Additionally, the order suspends the Visa Interview Waiver Program (VIWP), so all nonimmigrant visa applicants must attend an interview (unless not required by statute) to receive a visa.

• Currently suspended by the 9th Court of Appeals; it is unclear if an appeal is pending or if an additional order will follow
Michigan Tech’s Response

- Informed affected students of the possibility of the order prior to signing; released an email advisory following signing
- President Mroz issued a statement
- UMC/IPS website:
  - Timeline of university actions to date
  - List of on-campus support resources
  - Frequently Asked Questions page
Michigan Tech’s Response

- University Marketing and Communications held a media training session, as many students were contacted by media (including one featured in the New York Times); offered affected students to share their story via the Unscripted blog

- Department of Public Safety and Police Services issued a statement on their support for all students and where to report threatening behavior
- University Senate passed “Sense of Senate Resolution in Support of our International Colleagues and Students”
- Michigan Tech signed a letter circulated by the American Council on Education addressed to U.S. Department of Homeland Security Secretary Kelly
Michigan Tech Impact

- Approximately 75 students, faculty, and staff were directly affected by the original executive order; close to 300 more students have received admission for summer and fall (information not released publically)
- Iran is the 3rd largest international student population on campus
- One student’s wife was denied boarding to the U.S. while the mother of another student arrived but was turned away by Customs & Border Patrol
- Increase in the number of students (of all origins) who have reported unwelcoming or harassing behavior on campus or in the community
- Many have expressed support: Graduate Student Government held an initial forum immediately following the signing, Iranian Community (IRC) student organization organized a Unity March, others are facilitating cultural exchange
### MICHIGAN
Benefits from International Students

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FINANCIAL CONTRIBUTION</td>
<td>$43.0 million</td>
</tr>
<tr>
<td>JOBS SUPPORTED</td>
<td>552</td>
</tr>
<tr>
<td>INTERNATIONAL STUDENTS ENROLLED</td>
<td>1,898</td>
</tr>
</tbody>
</table>

#### TOP HIGHER EDUCATION INSTITUTIONS (Dollars and Jobs)

1. Michigan Technological University, Houghton: $35.2 million supporting 505 jobs
2. Northern Michigan University, Marquette: $3.8 million supporting 23 jobs
3. Lake Superior State University, Sault Saint Marie: $2.7 million supporting 17 jobs
4. Northwestern Michigan College, Traverse City: $1.2 million supporting 7 jobs
Theories of Involvement indicate that the more students are involved on campus, the more they persist in terms of academic success and satisfaction with the campus climate.
CIVIC ENGAGEMENT

Our students are working to make a difference in our community and developing the combination of knowledge, skills, values, and motivation to make that difference.

• In 2016, the Husky Amateur Radio Club performed 2,558 hours of community service – assisting at events such as the Great Bear Chase and the Parade of Nations.

• In Fall 2016, Order of Omega hosted a blood drive on campus which collected a total of 450 pints of blood which could help save up to 1,350 lives.

• In Fall 2016, members of 77 student organizations totaling 667 students participated in Make a Difference Day at 40 different service sites throughout the Keweenaw.

• In Fall 2016, the Fraternity & Sorority community raised a total of $21,530 for local and national philanthropic organizations.
CAMPUS ENGAGEMENT

Our students are getting involved outside of the classroom and developing numerous skills including leadership, communication, delegation, and program planning, while creating affinity for Michigan Tech.

• When surveyed - As a result of participating in campus activities:
  – 76.4% of students felt a part of the campus community
  – 72.5% of students felt that their satisfaction with their collegiate experience improved
  – 49.1% of students felt they would be more likely to participate in alumni events after graduation
  – 73.7% students felt they gained skills and abilities they will use after college
FY17 Funds Raised by Category
As of January 31, 2017

- Major (41%)
- Planned (259%)
- Annual Giving (67%)
- Corporate Sponsored Research (76%)
- Corporations (54%)
- Foundations and Other (13%)
- Gifts in Kind (8%)

Total Raised: $43.31MM
Total Goal: $35MM
Total Funds Raised FY 2009-2017
As of January 31, 2017

2009 2010 2011 2012 2013 2014 2015 2016 2017 to date:
Planned Giving Registry Historical Total
1985-2017
Thank you!
Developing a Safety Culture in a Lean Environment

Presenter: Ellen Horsch, Vice President for Administration
Michigan Technological University Board of Trustees Meeting
March 3, 2017
Lean is continuous improvement.
Taking Time and Strategy to Develop a *Safety Culture* Through a *Lean Environment*

- **2008**: Lean journey began
- **2011**: Copper Country Lean Group established
- **2011**: Grant from the Federal Mediation and Conciliation Service established
- **2013**: Health and Safety Task Force (HSTF) created
- **2013**: Leaders in Continuous Improvement (LCI) student organization formed
- **2015**: PureSafety software system implemented
- **2017**: Safety Dashboard designed and developed

**Employee Safety Statistics Report delivered to the Board of Trustees**
## EMPLOYEE SAFETY STATISTICS
### COMPARISON BETWEEN 2011 & 2016

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries</td>
<td>17</td>
<td>11</td>
</tr>
<tr>
<td>Lost Time Case Rate[^1]</td>
<td>0.89</td>
<td>0.5</td>
</tr>
<tr>
<td>Frequency Rate[^2]</td>
<td>1.38</td>
<td>0.8</td>
</tr>
<tr>
<td>Workers Compensation Claim Cost</td>
<td>$396,432.27</td>
<td>$23,140.37</td>
</tr>
</tbody>
</table>

OSHA has established specific calculations that enable the University to report the Recordable Injuries, Lost Time Case Rates and Frequency Rates. The Standard Base Rate (SBR) calculation is based on a rate of 200,000 labor hours which equates to 100 employees who work 40 hours per week for 50 weeks per year. Using the SBR allows the University to calculate their rate(s) per 100 employees.

[^1]: The Lost Time Case Rate is calculated by multiplying the number of Lost Time Cases by 200,000 then dividing by the labor hours at the University.

[^2]: The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the University.

According to the Bureau of Labor Statistics (BLS) for 2015, the average Lost Time Rate of days away from work for Colleges and Universities over 1,000 employees was 0.5 and the average Frequency Rate for Colleges and Universities over 1,000 employees was 1.8. The BLS rates for 2016 have not yet been developed.
The University’s Strategic Plan

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

1.3 Exceptional services and infrastructure.

- promote a university-wide culture of safety, responsiveness, effectiveness, and efficiency.

http://www.mtu.edu/stratplan/framework/
Employee involvement is the heart of Lean @ Michigan Tech.
It Takes a Community to Change a Culture

The University Safety Advisory Council

Health and Safety Task Force (HSTF)

- Environmental Health and Safety (EHS)
- Facilities Management
- Benefit Services
- Human Resources
- Human Resources Information Services
- Risk Management and Compliance
- Academic Department Lab Managers
- Research

Graduate Students
Undergraduate Students
Continually involving students in the changing culture.
We will continue to involve students: *their success is how we measure our success.*
Martine Loevaas
Student Process Improvement Coordinator
Financial Report
Board of Trustees Meeting
March 3, 2017
Overview

- Condensed Statement of Net Position
- Condensed Statement of Revenues, Expenses & Changes in Net Position
- Current Fund Projected Revenues & Expenses
Balance Sheet  
Condensed Statement of Net Position  
as of December 31, 2016  
(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Assets</td>
<td>$ 98,339</td>
<td>$ 3,828</td>
<td>$ 102,167</td>
</tr>
<tr>
<td>Noncurrent Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>236,654</td>
<td>-</td>
<td>236,654</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>67,372</td>
<td>132,838</td>
<td>200,210</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$ 402,365</td>
<td>$ 136,666</td>
<td>$ 539,031</td>
</tr>
<tr>
<td><strong>Deferred Outflows of Resources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$ 4,643</td>
<td>-</td>
<td>$ 4,643</td>
</tr>
<tr>
<td><strong>Total Deferred Outflows of Resources</strong></td>
<td>$ 4,643</td>
<td>-</td>
<td>$ 4,643</td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$ 97,111</td>
<td>$ 1,243</td>
<td>$ 98,354</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>151,367</td>
<td>4,970</td>
<td>156,337</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>$ 248,478</td>
<td>$ 6,213</td>
<td>$ 254,691</td>
</tr>
<tr>
<td><strong>Deferred Inflows of Resources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$ 349</td>
<td>-</td>
<td>$ 349</td>
</tr>
<tr>
<td><strong>Total Deferred Inflows of Resources</strong></td>
<td>$ 349</td>
<td>-</td>
<td>$ 349</td>
</tr>
<tr>
<td><strong>Net Position</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$ 155,106</td>
<td>-</td>
<td>$ 155,106</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>3,075</td>
<td>130,453</td>
<td>133,528</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td>$ 158,181</td>
<td>$ 130,453</td>
<td>$ 288,634</td>
</tr>
</tbody>
</table>
**Income Statement**

**Condensed Statement of Revenues, Expenses and Changes In Net Position**

As of December 31, 2016

(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Revenues</strong></td>
<td></td>
</tr>
<tr>
<td>Student Tuition and fees</td>
<td>$66,531</td>
</tr>
<tr>
<td>Grants and contracts</td>
<td>$18,583</td>
</tr>
<tr>
<td>Educational Activities</td>
<td>$2,448</td>
</tr>
<tr>
<td>Department Activities</td>
<td>$5,395</td>
</tr>
<tr>
<td>Student Residence fees</td>
<td>$13,876</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td><strong>$106,833</strong></td>
</tr>
<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$63,129</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$19,756</td>
</tr>
<tr>
<td>Student Financial Support</td>
<td>$28,794</td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>$32,133</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td><strong>$143,812</strong></td>
</tr>
<tr>
<td><strong>Non Operating Revenues</strong></td>
<td><strong>$26,659</strong></td>
</tr>
<tr>
<td><strong>Other Revenues</strong></td>
<td><strong>$2,435</strong></td>
</tr>
<tr>
<td><strong>Change in Net Position</strong></td>
<td><strong>($7,885)</strong></td>
</tr>
<tr>
<td><strong>Net Position, Beginning</strong></td>
<td><strong>$296,519</strong></td>
</tr>
<tr>
<td><strong>Net Positon, End</strong></td>
<td><strong>$288,634</strong></td>
</tr>
</tbody>
</table>
## FY2017 Current Funds
### Projected Revenues, Expenses & Change in Net Assets
*(in thousands)*

<table>
<thead>
<tr>
<th></th>
<th>Original Projection</th>
<th>2nd Quarter Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$ 293,483</td>
<td>$ 284,545</td>
</tr>
<tr>
<td>Expenses</td>
<td>$(292,490)</td>
<td>$(282,432)</td>
</tr>
<tr>
<td>Change in Net Assets</td>
<td>$ 993</td>
<td>$ 2,113</td>
</tr>
</tbody>
</table>

*Note: Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.*
Questions
IV.  CONSENT AGENDA

These are routine matters that generally do not require discussion or debate. Any Board member can remove any consent item from the agenda by request. They will be considered as one resolution.

A. Approval of Minutes  
B. Gifts  
C. Resignations, Retirements and Off Payroll  
D. Degrees in Course
IV-A. APPROVAL OF MINUTES

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal session of December 16, 2016 as distributed to the Board.
IV-B. GIFTS

Attached is a fiscal year to date comparative report of gifts to Michigan Technological University and the Michigan Tech Fund.

RECOMMENDATION: That the Board of Trustees acknowledges the gifts to Michigan Technological University.
Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2016 through January 31, 2017
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY17 YTD Total</th>
<th>FY16 YTD Total</th>
<th>FY16 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>1,930,774</td>
<td>6,873,943</td>
<td>10,872,520</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated)</td>
<td>25</td>
<td>239,839</td>
<td>287,439</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,322,790</td>
<td>1,325,134</td>
<td>1,766,198</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>29,755,905</td>
<td>10,755,230</td>
<td>11,809,230</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,034,622</td>
<td>1,075,202</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>7,938,975</td>
<td>460,485</td>
<td>3,025,560</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,070,089</td>
<td>1,039,748</td>
<td>1,606,009</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>193,945</td>
<td>203,968</td>
<td>325,300</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>60,930</td>
<td>692,164</td>
<td>2,512,825</td>
</tr>
<tr>
<td>Grand Total</td>
<td>43,308,056</td>
<td>22,665,713</td>
<td>33,696,675</td>
</tr>
</tbody>
</table>

-- A planned gift of $25 million was documented on September 19, 2016 from a donor who has requested to remain anonymous.
-- 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

02/08/2017  15:02
IV-C. RESIGNATIONS, RETIREMENTS AND OFF PAYROLL

Attached is a report of resignations, retirements and off payroll which have been approved by the President and are included for his convenience in recommending acceptance by the Board.

RECOMMENDATION: That the Board of Trustees accepts the resignations, retirements and confirms the off payroll determinations.
### BOARD OF TRUSTEES OFF-PAYROLL REPORT
(November 27, 2016 – February 3, 2017)

#### 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>Anderson, Ted L.</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Lecturer</td>
<td>08/27/84</td>
<td>01/02/17</td>
</tr>
<tr>
<td>Asselin, Patricia A.</td>
<td>Staff</td>
<td>Biological Sciences</td>
<td>Departmental Coordinator</td>
<td>08/31/81</td>
<td>01/13/17</td>
</tr>
<tr>
<td>Beels, Donna M.</td>
<td>Staff</td>
<td>Public Safety &amp; Police Services</td>
<td>Lieutenant</td>
<td>10/27/93</td>
<td>01/13/17</td>
</tr>
<tr>
<td>Durfee, Mary H.</td>
<td>Faculty</td>
<td>Social Sciences</td>
<td>Associate Professor</td>
<td>08/31/92</td>
<td>12/31/16</td>
</tr>
<tr>
<td>Kearly, Thomas D.</td>
<td>Staff</td>
<td>General Athletics</td>
<td>Head Coach, Football</td>
<td>06/01/00</td>
<td>12/31/16</td>
</tr>
<tr>
<td>Kent, David J.</td>
<td>Staff</td>
<td>Information Technology</td>
<td>Database Administrator</td>
<td>09/04/79</td>
<td>01/02/17</td>
</tr>
<tr>
<td>Niemi, Allen N.</td>
<td>Staff</td>
<td>Occupational Safety &amp; Health Services</td>
<td>Director</td>
<td>05/18/92</td>
<td>02/03/17</td>
</tr>
<tr>
<td>Niemi, Michael K.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Building Mechanic I</td>
<td>03/07/99</td>
<td>01/30/17</td>
</tr>
<tr>
<td>North, Laura A.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>11/29/83</td>
<td>01/06/17</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>Bess, James T.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Shuttle Bus Driver</td>
<td>11/07/16</td>
<td>01/01/17</td>
</tr>
<tr>
<td>Glenwood, Matthew G.</td>
<td>Staff</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>08/01/16</td>
<td>01/04/17</td>
</tr>
<tr>
<td>Han, Douglas</td>
<td>Staff</td>
<td>General Athletics</td>
<td>Assistant Coach, Volleyball</td>
<td>07/01/13</td>
<td>01/13/17</td>
</tr>
<tr>
<td>Lypsinmaa, Michael G.</td>
<td>Staff</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>02/16/15</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Martinchek, Justin F.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>05/12/15</td>
<td>12/16/16</td>
</tr>
<tr>
<td>Miller, Michele H.</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Professor</td>
<td>11/21/94</td>
<td>12/31/16</td>
</tr>
<tr>
<td>Spielman, Christa K.</td>
<td>Staff</td>
<td>Center for Diversity &amp; Inclusion</td>
<td>Assistant Director</td>
<td>06/01/15</td>
<td>12/06/16</td>
</tr>
<tr>
<td>Sullivan, Glenn M.</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Assistant Research Engineer / Software Engineer</td>
<td>06/07/15</td>
<td>12/31/16</td>
</tr>
<tr>
<td>Tracy, Kim W.</td>
<td>Faculty</td>
<td>Computer Science</td>
<td>Lecturer</td>
<td>08/17/15</td>
<td>12/31/16</td>
</tr>
<tr>
<td>Way, Julia A.</td>
<td>Staff</td>
<td>Career Services</td>
<td>Assistant Director, Career Development Education</td>
<td>01/21/08</td>
<td>12/10/16</td>
</tr>
<tr>
<td>Zuraw, Clare J.</td>
<td>Faculty</td>
<td>Provost and Vice President for Academic Affairs</td>
<td>Instructor</td>
<td>05/15/16</td>
<td>12/16/16</td>
</tr>
</tbody>
</table>
IV-D. DEGREES IN COURSE

Included herein are candidates who have been recommended by their respective faculties and have been certified by the Registrar as having fulfilled all the requirements of their degrees as specified.

RECOMMENDATION: That the Board of Trustees approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.
MEMORANDUM

To: Dr. Glenn D. Mroz, President

From: Theresa K. Jacques, Registrar
Registrar’s Office

Date: February 3, 2017

Subject: Candidates for Degrees – Conferral Term 201608

The attached list of candidates for degrees, beginning with Steven R Dobbs and ending with Keshab Raj Acharya, is submitted for the granting of the appropriate degrees by the Board of Trustees. I certify that these candidates meet all requirements for their respective degrees and that the names have been submitted to and have received the approval of the faculty from their major department.

[Signature]
Theresa K. Jacques
Registrar

TKJ: kph
Michigan Technological University
Degrees Awarded for Conferral Term 201608

- Associate in Humanities  
  Steven R Dobbs - Magna Cum Laude

- Bachelor of Arts in English  
  Leslie Jeanne Mundell - Cum Laude
  Tyler Scott Harp - Summa Cum Laude
  Gregory Michael Kinney - Magna Cum Laude
  Erica Suzanne LeClaire

- Bachelor of Arts in Physics  
  Matthew Paul Radke
  Dalton R Shoebridge
  Jiri Ruth Wall - Cum Laude
  Tessa Kay Haapapuro - Cum Laude
  Abbey Caroline Halonen - Cum Laude
  Ying Hu
  Lyndsey Marie Suyama - Cum Laude

- Bachelor of Arts in History  
  Leslie Jeanne Mundell - Cum Laude
  Tyler Scott Harp - Summa Cum Laude
  Matthew Paul Radke
  Kirsti Ruth Wall - Cum Laude
  Tessa Kay Haapapuro - Cum Laude
  Abbey Caroline Halonen - Summa Cum Laude

- Bachelor of Arts in Scientific and Technical Communication  
  Matthew Paul Radke
  Dalton R Shoebridge
  Jiri Ruth Wall - Cum Laude
  Tessa Kay Haapapuro - Cum Laude
  Abbey Caroline Halonen - Cum Laude
  Ying Hu
  Lyndsey Marie Suyama - Cum Laude

- Bachelor of Science in Accounting  
  Cassandra Lynn Barry - Cum Laude
  Kathleen Ann Draves
  Tessa Kay Haapapuro - Cum Laude
  Abbey Caroline Halonen - Summa Cum Laude
  Ying Hu
  Lyndsey Marie Suyama - Summa Cum Laude

- Bachelor of Science in Economics  
  Jacob Sawyer Henley

- Bachelor of Science in Engineering Management  
  Mallory Paige Miller
  Matthew Charles Mateer
  Spencer Thomas Moran
  Kendra R Rasner
  Ian Frederic Wienke

- Bachelor of Science in Finance  
  Cassandra Lynn Barry - Cum Laude
  Kathleen Ann Draves
  Tessa Kay Haapapuro - Cum Laude
  Abbey Caroline Halonen - Summa Cum Laude
  Ying Hu
  Lyndsey Marie Suyama - Cum Laude

- Bachelor of Science in Management  
  Brandon Victor Cowie
  Julian Joseph Davani
  Guomao Fan
  Yuchen Hu
  Rachel Elisabeth Klumpp - Cum Laude
  Christopher G Rigoni

- Bachelor of Science in Management Information Systems  
  Skyler McCoy Cavitt
  Casey Licht Mallo - Magna Cum Laude
  Stephanie Ann Van Handel

- Bachelor of Science in Marketing  
  Jacqueline Christine Aird
  Scott Christopher Hoch
  Aubreyena Joy Jeffrey
  Hailey Theresa LaFluer - Cum Laude
  Michael Kenji Munelo

- Bachelor of Science in Applied Geophysics  
  Bryan Michael-Rundman Lowney

- Bachelor of Science in Biomedical Engineering  
  Rachel M Altscheffel
  Alexander James Benson - Cum Laude
  Esther S Gilliland
  Michael Collier Hallman
  Joseph Richard Kristofik
  Kyle Anthony Price
  Daniel Luke Radke - Magna Cum Laude
  Ashley Lynn VanSumeren

- Bachelor of Science in Engineering  
  Kyle Bernard Mischler - Summa Cum Laude

- Bachelor of Science in Civil Engineering  
  Samantha Anderson - Magna Cum Laude
  Sarah Anne Binkow
  Charles Thomas Butler
  Baylie Louise Campbell
  Daniel John Carlson
  Jay Aaron Daavettila
  Jeremy Lee Deiro
  Rachel Maria Dougherty
  Otto Maxwell Freiberg
  Xing Gao
  Sierra Rose Goodine
  Joshua Alan Harju
  Mitchell Joseph Jacqmain
  Andrew Richard LeBeau
  Cody S Leveski
  Andrew David Lobbestael
  Alex Donald Mardlin
  Aaron John Nelson
  James Michael Probstfeld
  Laura Lynn Simula - Cum Laude
  Brooke Ann Snow
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Bachelor of Science in Chemical Engineering
Makenna Janine Stelpflug
Matthew Joseph Tomaszewski
Rachelle Marie Wiegaard
Xi Zhu - Cum Laude
Krista A Blumberg

Bachelor of Science in Computer Engineering
Vincent Thomas Druschke - Magna Cum Laude
Dimitrios Kazakos - Cum Laude
Nicholas Calvin Peterson - Cum Laude
Brian Alan Wilder - Magna Cum Laude
Qinzhe Zhang - Cum Laude

Bachelor of Science in Electrical Engineering
Alexander James Benson - Cum Laude
Carl F Cobian
David Paul D’Ambrosio
Arick Lamarre-Vincentee Davis
Jacob M Hardin
Jordan Ray Hart
Zhihang Jin
Jordan Christopher LaFontaine
Matthew Dean LeMay
Songkai Liu
Jackson W Maslowski - Cum Laude
Matthew Francis Pollack
Ricardo David Reyes
Kevin B Rocheleau - Magna Cum Laude
Angela Claire Rubeck - Magna Cum Laude
Daniel James Sullivan
Linas Samuel Templeton
Michael Thomas Theoret - Cum Laude
Joshua David Vandenhouten
Jacob William Vaughan
Valerie Shae Watros
Joshua Lee Webber
Yurong Zhang - Cum Laude
Yuxuan Zhou

Bachelor of Science in Environmental Engineering
Matthew Donald Annala
Daniel Brian Barton - Cum Laude
Philip Edward Bielak
Claire Elizabeth Bradford
Daniel Adam Deaton
David Allan Falsify - Summa Cum Laude
Courtney Paige Fournier
Hannah Rachel Garner
Mark T Hallmann
Katie Elizabeth Lambert
Amanda Rae Laramie
Neil Duane Noack
Kristina Ashley Rushlau - Cum Laude
Kellie Elizabeth Schafer
Brandon Scott Stimac
Samantha Marie Whitens

Bachelor of Science in Geological Engineering
Brian Adam Brown
Samantha Elaine Fentress
John Ara Hagopian
Joseph Edward Lawinger - Summa Cum Laude
Mallory Paige Miller
Benjamen Stoneham Pletcher
Jason R Jakary
Ryan John Livernois

Bachelor of Science in Geology
Kelsey Briana-Rose Abbott
Patrick Neal Anderson
Isaac Evan Ansingh
Scott Edwin Applegate
Alexander Jeffrey April
Kieman Jacob Babcock
JoAnn Patricia Ballor - Magna Cum Laude
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Brendan Joseph Banker
Ty Anthony Barron
Tyler James Benjamin
Macabe Christopher Brand - Summa Cum Laude
Anthony Martin Brechtling
Brian William Brook - Summa Cum Laude
Tyler Jason Brose
Tucker Joe Campbell
Alexander Michael Ciesla
Kathrine R Cipriano
Mitchell D Coder
Oliver Jack Cooper
Brianna Nicole Corrado
Maxwell Wallace Curtis
Timothy E Daavettila
Ryan Thomas Engman
Brian Michael Flachs
Jeremy Edward Folkerts
John Ryan Ford
Joseph David Fordahl - Cum Laude
Daniel P Frank
Thomas Wyatt Goetz - Summa Cum Laude
Peter Joseph Gorecki
Jessica Louise Gotts - Cum Laude
Hailey Noel Goupille
Matthew George Shea Gralewski
Michael Collier Hallman
Jordan M Hartman - Magna Cum Laude
Michael Rolf Helmke
Bryton Richard Hutchings
Andrew James Jensen
Taylor Danielle Jirovec
Wayne Gordon Kast
Joseph George Kaus
Bryce J Kinder - Cum Laude
Christopher Robert Kline
Jordan Marcus Knipp
Victoria Elizabeth Kovach
Peter Joseph Kueffner
Jacob David Kurtz - Summa Cum Laude
Jacob Joseph LeBrun
Maxx G Lehmann
Mitchell Dean Lemmer
Michael Ryan Long
Mauricio Martinez - Cum Laude
Reagan J May - Cum Laude
Luke Theodore McCloskey - Magna Cum Laude
Daniel Brian McIntosh
Vincent M McLain
Fernando Moreira Mendes
Andrew Lee Morris - Summa Cum Laude
Joshua A Mucinski
Eric Bradley Nelson
Walker Houston Nelson - Cum Laude
Evan Jeffrey Parks
Parshwa Shital Patwa
Tyler M Pennala
Vance P Peterson - Magna Cum Laude
Kyle Anthony Price
Matthew James Pscheid - Cum Laude
Megan Elizabeth Rady
John M Raisanen - Cum Laude
Nicholas Richard Ramon
John Christopher Risch
Adam Joseph Robards
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Michael David Robinson - Cum Laude
Nathan Thomas Roth
Bradley David Sankey
Alec Hans Sauter
Kyle T Schmiied
Emily Kaye Schrader
Korinne Marie Seefried
Kush Hiren Shah
Dylan James Sladek
Ryan James Stoboda
Jacqueline Marie Slovak
Kyle RS Tice
Tyler James VanDerLinden
Leo Simon VanDeventer
Stephen David Velth - Magna Cum Laude
Joseph Christopher Vieau
Jonathan Fransis Vincent
Daniel M Vogel - Magna Cum Laude
Libby Suzanne Welton - Summa Cum Laude
Aurora Julia White
Michael Douglas Zill
Dante Antonio Zuccaro

Bachelor of Science in Materials Science and Engineering
Brian William Brook - Summa Cum Laude
Tyler Jason Brose
Daniel Ryan Casciani - Cum Laude
Connor Johannes Knudson
Anthony Arnold Orza - Magna Cum Laude
Bryan William Stout
Nathanial T Wickliff

Bachelor of Science in Applied Ecology and Environmental Sciences
Jacob Andrew Ball
Sarah Anne Harttung - Magna Cum Laude

Bachelor of Science in Forestry
Todd Andrew Lewis - Cum Laude
Dylan Ford Malone
Kaydi Elizabeth Picard
Jacob Jeffery Siler - Magna Cum Laude
Heath Mackenzie Welch
John Hammond Forrest Wheeler

Bachelor of Science in Wildlife Ecology and Management
Rachel E Gauthier
Daniel W Peck
Erin C Prior
Gabriel Paul Witner

Bachelor of Science in Anthropology
Reyna Lee Bennett
Lauren Elizabeth Kors
Melissa Marie Wolfe-Michaelson - Summa Cum Laude

Bachelor of Science in Biological Sciences
Timothy Michael Butler
Acacia Ann Copley
Shannon Rae Dufek - Summa Cum Laude
Martin A Gargaro
Olivia Kathleen Ingram - Magna Cum Laude
Alexander H McQueeney - Summa Cum Laude
Virginia Mary Van Vianen - Summa Cum Laude
Alex Jon Van Wagner
Leila Marie Whelan

Bachelor of Science in Chemistry
Wenbo Li
Alexandra Elizabeth Maday
Jacob Blair Pleiness
Jack Robert Vaclavek

Bachelor of Science in Pharmaceutical Chemistry
Eric Robert Karinen

Bachelor of Science in Computer Science
Vincent Neil Ader
Sarah Evelyn Adler
Max Dubrinsky - Magna Cum Laude
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Bachelor of Science in Computer Systems Science
Ian Markham Glazko
Bachelor of Science in Exercise Science
Nicholas John Alessandroni - Cum Laude
Bachelor of Science in Audio Production and Technology
Olivia Joelle Trautner
Bachelor of Science in Mathematics
Matthew James Collins
Bachelor of Science in Biochemistry and Molecular Biology
Lauren Victoria Ruth McDonald
Bachelor of Science in Biochemistry and Molecular Biology
Tracy Annette Mulka
Bachelor of Science in Medical Laboratory Science
Tanner Gerald Keyzers
Bachelor of Science in Physics
Kevin B Rocheleau - Magna Cum Laude
Bachelor of Science in Psychology
Matthew Christopher Berry
Bachelor of Science in Software Engineering
Johnathen M Booth
Bachelor of Science in Sports and Fitness Management
Hunter Elizabeth Ashbrook
Bachelor of Science in Social Sciences
Christopher Nicholas Edwards
Bachelor of Science in Scientific and Technical Communication
Rachel Marie Nankervis
Bachelor of Science in Construction Management
Cody Matthew Erickson
Bachelor of Science in Computer Network and System Administration
Charles Edward Collins - Cum Laude
Bachelor of Science in Electrical Engineering Technology
Jacob William Stanisiewski - Summa Cum Laude
Bachelor of Science in Mechanical Engineering Technology
Philip D Cox - Magna Cum Laude
Bachelor of Science in Surveying Engineering
John Calvin Strauch
Jared Thomas Sutherland
Zheng Wang

Bachelor of Science in Surveying Engineering
Steven Samuel Steinhoff

Master of Business Administr. in Business Administration
Nels P Anderson
James Timothy Desrochers
Douglas Han
Kelsey Johnson
John William Nelson
Benjamin James Tauchen

Master of Engineering in Engineering
Sridhant Shyam Heble

Master of Forestry in Forestry
Stella Rose Dee
David Edward Gilmore
Travis John Heikkinen
Alexandra Perrier
Michael Ryan Rood
Darren D Semones

Master of Geographic Info Sci in Geographic Information Science
Jiuling Zhang

Master of Science in Accounting
Brooke Elise Huber
Wenyu Xu

Master of Science in Applied Natural Resource Economics
Reginald Todd Dillingham

Master of Science in Biomedical Engineering
Avik Ghosh
Abhinav Madhavachandran
Lu Song
Govindan Suresh

Master of Science in Civil Engineering
Mahidhara Reddy Bathula
Charles Allen Holmes
Mary C Moritz
Justin Theodore Rademacher
Victoria Leebieski Reuvers
Rakshitha Satyaprakash
Ruizhe Si
Autumn Joy Storteboom

Master of Science in Chemical Engineering
Kaled Mohamed Bentaher
Jeana Louise Collins
Ashish Shriram Saksule

Master of Science in Computer Engineering
Praneeth Reddy Arora
Sandeep Lanka
Sriranee Nuchitprasititchai
Lingfeng Pu
Matthew Scott Zawisza
Qisong Zhao

Master of Science in Electrical Engineering
Apama Addada
Guna Ratna Bharati
Sravana Sindhuri Bhattacharyya
Partikumar Suresh Kumar Bhuvan
Kirk J. D'Souza
Dustin Matthew Drumm
Amir Farshad
Saurav Joshee
Bharath Bhushan Kothe
Mani Sankar Kukunuru
Yiqiao Liao
Jing Liu
Ankita Mishra
Joshua Alan Niemi
Sevket Burak B Ovali
Macy Sarah Payne
Rajeev Pokala
Snigdha Prakash
Md Mahfuzur Rahman
Derrick Robey
Yundong Shi
Chao Feng Wang
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Master of Science in Environmental Engineering
Bharathi Bhattu
Shawn Roger Conard
Meral Lyn Jackson
Mahesh Sanjeev Kulkami
Jarod Collin Maggio
Zoe Alyssa Miller
Michael Anthony Polkinghorn
Christopher Carlyle Walkons
Bradley Weiss

Master of Science in Geological Engineering
Boming Wu

Master of Science in Geology
Taya Therese Flaherty
Cassandra Marie Javor
Edrick Ramos

Master of Science in Geophysics
Karl Francis Campbell
Garvie Curtis Crane
Maximilian Wolfgang Guettinger
Muskaan Khurana
Mevlut Han Mertturk

Master of Science in Mechanical Engineering
Dharma Teja Adepu
Piyush Aggarwal
FNU Anil Raju
Basil James Anthottam
Mahsa Asgarisabet
Sumit Shekhar Bongir
Sai Kumar Reddy Busireddy
Chintan Kaushik Desai
Simranjit Singh Dhanoa
Xin Diao
Paul Whitney Dice
Kyle Douglas Hanson
Rakshith Kumar Janga
Barath Chand Jasti
Jithin Joseph
Akshada Shirish Joshi
Akshay Ramesh Joshi
Valibhav Kadam
Saimanojkumar Kagolamu
Pankaj Nandial Kalan
Vaishnavee Kamble
Sachin Kosuri
Akash Kotagiri
Amruta Vivekanand Kulkarni
Dian Li
Zhenpeng Li
Nithesh Maddi Reddy
Prajwal Mahesh
Adit Atul Manurkar
Joshua N Matlash
Kevin R Miller
Apuv Naman
Sainath Naram
Sanika Jay Oturkar
Brian Rate Page
Ajit Ramchandra Pawar
Mohit Milind Phadke
Gaoshiao Qiu
Deekshit Rangoju
Zhehao Ren
Tyler James Sierakowski
Dheeraj Sirimalla
Ali Solouk
Stephanie Lynn Tankersley
Michigan Technological University
Degrees Awarded for Conferral Term 201608

Master of Science in Materials Science and Engineering
- Yang Yang

Master of Science in Applied Ecology
- Will Henry Olsen

Master of Science in Forest Ecology and Management
- Kyle D Fredrickson

Master of Science in Forestry
- Michael Jeffrey Miller

Master of Science in Computer Science
- William John Lytle

Master of Science in Environmental and Energy Policy
- Emily Woods Prehoda

Master of Science in Geology
- Erika Colleen Vye

Doctor of Philosophy in Biomedical Engineering
- Andrew John DeRouin

Doctor of Philosophy in Chemical Engineering
- Maryam Khaksari

Doctor of Philosophy in Computer Engineering
- Jennifer Ann Winkus

Doctor of Philosophy in Electrical Engineering
- Mohsen Jamalabollahi

Doctor of Philosophy in Geophysics
- Federica Lanza

Doctor of Philosophy in Materials Science and Engineering
- Kyle James Deane

Doctor of Philosophy in Environmental Engineering
- Huanxin Zhang

Doctor of Philosophy in Mechanical Engineering
- Andrew John DeRouin

Doctor of Philosophy in Biological Sciences
- Ida Arfaine Tchuisseu Fonkoue

Michigan Technological University  Student Records and Registration  03-FEB-17  12.02.32 PM  Page 1
V. ACTION/DISCUSSION ITEMS

A. Employee Recognition
B. Emeritus Rank
C. Exclusion Resolution for the Department of Defense
D. Resolution Approving Conveyance of General Campus Renovations Project
V-A. EMPLOYEE RECOGNITION

For our employees that have worked for Michigan Tech for 35 or more years and in recognition of their distinguished service and outstanding contributions to Michigan Tech, the Board would like to honor them with a resolution of appreciation.

RECOMMENDATION: That the Board of Trustees adopts the Resolution Of Appreciation for the following individuals:

1.) Patricia Asselin – 35 years of service

2.) David Kent – 37 years of service
V-B. EMERITUS RANK

Recommendation for the granting of faculty emeritus status originates within the retiree’s academic department and proceeds through the respective college and school. Once approved, the recommendation is presented to the Provost, and if successful, to the President of the University for presentation to the Board of Trustees.

RECOMMENDATION: That the Board of Trustees approves the following emeritus appointments:

Dr. Mary Durfee, Professor Emerita, Department of Social Sciences

Dr. Bruce J. Pletka, Professor Emeritus, Department of Materials Science and Engineering
TO: Michigan Tech Board of Trustees  
DATE: 12/15/2016  
FROM: Hugh S. Gorman, Chair, Department of Social Sciences  
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Social Sciences voted on December 7, 2016 to request that the Michigan Technological University Board of Trustees name Dr. Mary H. Durfee as Professor Emerita after her retirement on December 19, 2016.

A political scientist, Mary Durfee joined the Michigan Tech faculty in 1992 after previously working at the University of Dayton. Soon after arriving at Michigan Tech, she worked with department colleagues to create the department’s graduate program in Environmental Policy. With colleagues from the College of Engineering, she was a Co-PI on a $4.5 million NSF IGERT for graduate education—a project that became the basis for the Sustainable Futures Institute. From 2002 to 2007, she served as assistant provost at Michigan Tech, during which she founded and was the inaugural director of the Honors Institute. She also was the university’s competitive scholarships advisor from 2002-2014.

While at Tech, Dr. Durfee received three fellowships: Annenberg Scholar at the University of Pennsylvania, and two Fulbright Scholarships (Malta and Hungary). Prof. Durfee has twice been a finalist for the university’s Distinguished Teaching Award and is a member of Tech’s Academy of Teaching Excellence. Currently, she is nearing completion of a co-authored book entitled, The Artie in 21st Century International Relations. The department believes that Dr. Durfee has represented the department well and is deserving of this honor.

Hugh Gorman, Chair  
Department of Social Sciences  
12/15/2016

Bruce Seely, Dean  
College of Sciences and Arts  
12/16/2016

Jacqueline Huntoon, Provost and Vice President for Academic Affairs  
12/20/16

Glenn Mroz, President  
1/11/17
DATE: 11 January 2017
TO: MTU Board of Trustees
FROM: Stephen Kampe, St. John Professor and Chair
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Materials Science and Engineering voted unanimously on January 10, 2017, to request that the following recommendation be presented to the Michigan Tech University Board of Trustees, for action to name Bruce J. Pletka to Professor Emeritus upon his retirement on June 1st, 2016.

Professor Pletka’s distinguished career is manifested by a record of highly effective teaching, renowned research contributions, and significant service to the profession and Michigan Tech. Professor Pletka joined the (then) Metallurgical Engineering Department in 1977 and has served the department with distinction since that time. During his career at Michigan Tech, he taught and conducted research in several diverse areas, including physical ceramics, physical metallurgy, and advanced materials characterization methods. He has received notable recognition for his work in metallic superalloys for aerospace and advanced ceramics for structural applications.

Pletka also served as an advisor to students in several different capacities, including the department’s undergraduate academic advisor from 2001-2007, faculty advisor to Alpha Sigma Mu Honor Society from 1997-2015, advisor to Phi Kappa Theta from 1984-2004, and advisor to the Copper Country Cycling Club from 1994-2016. Serving in these advising capacities speaks well of his tireless devotion to the educational system and the students of Michigan Tech.

Prior to his appointment at Michigan Tech, he served as a Postdoctoral Research Associate at the National Bureau of Standards in Washington, DC. He completed his graduate studies at Case Western Reserve University under the guidance of Distinguished University Professor and Kyocera Professor of Ceramics, Arthur Heuer.

Many alumni and graduating students of MSE consistently identify Professor Pletka as one of the most effective instructors over the course of their Michigan Tech experience, and one of the most versatile in terms of his extensive breadth of knowledge.

Approved

[Signatures]

Department Chair
College Dean
Provost
President

Date
Date
Date
Date

Michigan Tech is an EOE which includes protected veterans and individuals with disabilities.
V-C. Exclusion Resolution for the Department of Defense

In 2008 the Board of Control amended policy 12.8. Security Clearance-Department of Defense by establishing an Executive Committee. On March 5, 2009, the Board approved an Exclusion Resolution for the Department of Defense that excludes Board of Trustees member’s access to classified information unless they are a member of the Executive Committee. The Board appointees to the Executive Committee are Bob Jacquart, Brenda Ryan and Terry Woychowski. The Administration is requesting that the Exclusion Resolution be revised to reflect the current Board appointments.

RECOMMENDATION: That the Board of Control adopts the Exclusion Resolution as presented herein.
EXCLUSION RESOLUTION

WHEREAS, current Department of Defense Regulations contain a provision making it mandatory that the Senior Management Officials and Facility Security Officer meet the personnel clearance requirements established for a contractor facility security clearance; and

WHEREAS, said Department of Defense Regulations permit the exclusion from the personnel clearance requirements of certain members of the Board of Trustees and other officers, provided that this action is recorded in the corporate minutes.

NOW THEREFORE BE IT DECLARED that the President of the University, Vice President for Research, and Facility Security Officer at the present time do possess, or will be processed for, the required security clearance; and

BE IT RESOLVED that in the future, when any individual enters upon any duties as President of the University, Vice President for Research, and Facility Security Officer, such individual shall immediately make application for the required security clearance; and

BE IT RESOLVED AND DIRECTED that the following members of the Board of Trustees shall not require, shall not have, and can be effectively excluded from access to all CLASSIFIED information in the possession of the corporation and shall not affect adversely corporate policies or practices in the performance of classified contracts for the Department of Defense or the government contracting activities (User Agencies) of the National Industrial Security Program.

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linda D. Kennedy</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Julie A. Fream</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>William L. Johnson</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Derhun Sanders</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Steven M. Tomaszewski</td>
<td>Board of Trustees Member</td>
</tr>
</tbody>
</table>
V-D. RESOLUTION APPROVING CONVEYANCE OF PROPERTY FOR THE GENERAL CAMPUS RENOVATIONS PROJECT

In 2005 the Board of Control approved several campus improvement projects which included interruptible power generators, classroom renovations, and various major maintenance projects, which became known as the General Campus Renovations Project.

The General Campus Renovation Project was authorized and funded by the State of Michigan in December of 2005, with a 25% match from Michigan Tech. As part of the State funding process, the State Building Authority sold short term bonds to relieve Michigan Tech from the cash flow burden of the project. As a result, the State Building Authority became the owner of the facility and assumed the debt.

The bonds issued by the State Building Authority for the General Campus Renovations Project have been paid in full. Michigan Tech is now eligible to request reconveyance of the property which was titled to the State Building Authority pursuant to the project financing and underlying Lease. In order to accomplish this result, the State Building Authority will need a formal request for reconveyance from Michigan Tech.

Included herein is a Resolution Approving the Conveyance of Property for the General Campus Renovations Project, a bill of sale to reconvey the property and a copy of the legal description.

RECOMMENDATION: That the Board of Trustees approves the Resolution Approving Conveyance of Property for the General Campus Renovations Project and authorizes the Administration to execute the necessary documents for the reconveyance of this property.
A RESOLUTION OF THE BOARD OF TRUSTEES
OF MICHIGAN TECHNOLOGICAL UNIVERSITY REQUESTING
CONVEYANCE OF PROPERTY FOR THE GENERAL CAMPUS
RENOVATIONS PROJECT, ACCEPTANCE OF SAME AND ACCEPTING
OBLIGATIONS FOR THE FACILITIES

A RESOLUTION of the Board of Trustees of Michigan Technological
University (the "Educational Institution") requesting and approving the conveyance
of property and to provide matters relating thereto.

WHEREAS, the State Building Authority (the "Authority"), a statutory body
corporate created under provisions of 1964 PA 183, as amended, is authorized to
acquire, construct, furnish, equip, own, improve, enlarge, operate, mortgage and
maintain buildings, necessary parking structures or lots and facilities and sites
therefore for use by the State or any of its agencies including institutions of higher
education created pursuant to Sections 5, 6 and 7 of Article VIII of the Michigan
Constitution of 1963; and

WHEREAS, the Educational Institution has been created and is maintained
pursuant to Sections 7 of Article VIII of the Michigan Constitution of 1963; and

WHEREAS, the Authority has previously acquired the General Campus
Renovations Project (the General Campus Renovations Project is the "Facilities")
and the Authority leased the Facilities to the Educational Institution and the State
of Michigan (the "State") pursuant to a lease dated as of August 1, 2007 (the
"Lease"); and

WHEREAS, under the terms of the Lease, the Authority agreed to convey
title by Bill of Sale to the Facilities to the Educational Institution upon request by
the Educational Institution after the Bonds which financed the Facilities (the
"Bonds" as defined in the Lease) and any additional bonds or other obligations as
provided in the Lease are paid in full or provision for the payment thereof is made
as provided in the Lease for consideration of one ($1.00) Dollar and the assumption
by the Educational Institution of all monetary obligations and legal responsibilities
for the operation and maintenance of the Facilities; and
WHEREAS, the Bonds have been paid in full and all conditions established by the Lease as conditions precedent to conveyance of title by Bill of Sale to the Facilities by the Authority to the Educational Institution have occurred.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE EDUCATIONAL INSTITUTION THAT:

1. The Educational Institution hereby requests that the Authority convey title to the Facilities by Bill of Sale to the Educational Institution.

2. The consideration for the conveyance of the Facilities shall be one ($1.00) Dollar and the assumption by the Educational Institution of all monetary obligations and legal responsibilities for the operation and maintenance of the Facilities.

3. The conveyance of the Facilities pursuant to the terms and conditions set forth above is approved and each of the __President, Vice President for Finance/Treasurer of the Board of Trustees___ and __Secretary of the Board of Trustees___ of the Educational Institution is authorized and directed to execute any documents to accomplish the conveyance in such form as may be requested by the Authority and approved by counsel for the Educational Institution.

4. All ordinances, resolutions and orders or parts thereof in conflict with this resolution are, to the extent of such conflict, repealed.

5. This resolution shall be effective immediately upon its adoption.
BILL OF SALE

KNOW ALL PERSONS BY THESE PRESENTS: That the State Building Authority, a public corporation organized and existing under the authority of Act No. 183, Public Acts of Michigan, 1964, as amended (the "Authority"), under the terms of the Lease (the "Lease") relating to the Michigan Technological University General Campus Renovations Project, made and entered into as of August 1, 2007, between Michigan Technological University (the "Educational Institution") and the Authority, agreed to convey title to the personal property and fixtures constituting part of the Facility to the Educational Institution upon request by the Educational Institution after certain conditions specified in the Lease have occurred.

All conditions precedent, as established by the Lease, to convey title to the personal property and fixtures constituting part of the Facility by the Authority to the Educational Institution have occurred, and the Educational Institution has requested that the Authority convey title to the personal property and fixtures constituting part of the Facility to the Educational Institution.

THE AUTHORITY DOES HEREBY GRANT, SELL, TRANSFER AND CONVEY unto the Educational Institution, all of the Authority's rights, title and interest in and to the personal property and fixtures constituting part of the Facility (as defined in the Lease) and as set forth in the attached Exhibit A and for the cost described in Exhibit A, for the sum of One Dollar ($1.00), the receipt of which is acknowledged, and the assumption by the Educational Institution of all monetary obligations and legal responsibilities for the operation and maintenance of the Facility.

THE AUTHORITY DOES HEREBY CONVEY to the Educational Institution any portion of said personal property or fixtures constituting part of the Facility which has not been installed or put in place on the date hereof, as the same shall be installed or put in place, all in accordance with the provisions of the Lease.

IN WITNESS WHEREOF, the Authority by its Executive Director, and Michigan Technological University, by its VP for Finance/Treasurer BOT and the Secretary BOT of the Educational Institution, have executed this Bill of Sale as of the________________________day of____________________, 2017.

STATE BUILDING AUTHORITY

By_________________________

Deborah Roberts

Its: Executive Director
MICHIGAN TECHNOLOGICAL UNIVERSITY

By: _____________________________
    Julie Seppala
Its: VP for Finance/Treasurer BOT

By: _____________________________
    Roberta Dessellier
Its: Secretary BOT
### Exhibit A

Michigan Technological University  
General Campus Renovations  

**College/University:** Michigan Technological University  
**Location of Project:** Houghton, Michigan  
**Completion Date:** June 30, 2007  
**Lease Term:** 20 Years  
**Annual Rent Payment:** $660,000  

#### Scope of Work/Cost:

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<th>Project</th>
<th>Component</th>
<th>Total Cost</th>
<th>School Payment Number</th>
<th>State of MI Payment Number</th>
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<tbody>
<tr>
<td>Interruptible Power Generators &amp; Addition</td>
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<td>$3,649,537.09</td>
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<td>Construction</td>
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| General Campus Maintenance and Classroom Renewal  
Chemical Science Renovation  
Dillman Hall  
Fisher Hall Renovation | | $2,217,613.20 | P0065207 | 332w7200050, 332w7200036, 332w7200030, 332w7200024 |
<p>| Professional Fees | | $128,248.37 | P0068570, P0066773, P0067428, P0069380, P0070315, P00701109, P0066815, P0070779, P0067535, P0068685, P0068718, P0069240, P0068348, P0070346, P0068409, P0069220, P00710191, P0068627, P0067556, P0068652, P0069805, P0069901, P0067528, P0068571, P0069004, P0069381, P0069576, P0070909, P0068349, P0068816, P0071238, P0071944, P0071945, P0071869, P0071581, P0066816 | 332w7200030, 332w7200036, 332w7200024, 332w7200055 |
| Construction | | $2,089,364.83 | | |</p>
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<td>Forestry Building</td>
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<td>Walker Arts Building</td>
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<td>Administration Building</td>
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<td>Forestry Greenhouse</td>
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* State Building Authority Share $7,463,923, University Share. $2,488,041, State General Fund/General Purpose Share, $200
Architect/Engineers;
Interruptible Power Generators: Shott Elliott Hendrickson
10901 Red Circle Drive
Suite 200
Minnetonka, MN  55343-9301

856 West Washington St.
Marquette, Michigan  49855

Classroom Renewals, Life Safety, and Major Maintenance (Roofs): Hitch, Inc.
46479 US 41 South
P0 Box 9
Houghton, MI 49931-0009

Contractors: 
Interruptible Power Generators: Fabco Equipment, Inc.
PO Box 259040
Madison, WI 53725-9040

Moyle Construction
West M-26
PO Box 399
Houghton, MI 49931-0399

Central Utility Plant Energy Conservation; Environmental Systems, Inc.
W223 N603 Saratoga Drive
Waukesha, WI 53186

Yalmer Mattila Contracting
55 North Huron
Houghton, MI 49931

Classroom Renewals: Gundlach Champion, Inc.
600 E. Lakeshore Drive, Suite 300
PO Box 278
Houghton, MI 49931-0278

Roscor Corporation
(Classroom Technology)
1061 Feehanville Drive
Mount Prospect, IL 60056-6019
Life Safety:
Northland Electric
108 Wilcox Road
PO Box 155
White Pine, MI 49971-0155

Clark Construction, Inc.
HCl Box 220A
Mohawk, MI 49950-9718

Major Maintenance (Roofs):
Northern Awning & Window
1221 W. Washington Street
Marquette, MI 49855-3111

Lake State Roofing
1123 Cedar Avenue
Iron Mountain, MI 49801-4708

Misc. Maintenance:
Timm Gast Electric
29605 Gay Road
Lake Linden, MI 49945-9734
Prime Supply Company
200 E. Smith Street
PO Box 520
Iron Mountain, MI 49801

B & B Electrical Contractors
627 Circle Drive
Iron Mountain, MI 49801-1473

Otis Elevator Company
PO Box 73579
Chicago, IL 60673-7579
VI. REPORTS

A. University Senate Report – Dr. Martin Thompson, President
B. Undergraduate Student Government Report –
   Mr. Samuel Casey, President
C. Graduate Student Government Report – Mr. William Lytle, President
University Senate Report

Presented to the Board of Trustees

March 3, 2017

Marty Thompson, President
University Senate
10 Senate approved Proposals

4 proposals approved by administration

- One curricular program
- Evaluation Procedures for Department Chairs and School Deans
- Two proposals revising and amending Procedures to Review and Reappoint Deans of Colleges

6 proposals awaiting consideration

- 5 curricular programs, including a requirement for laptops by Engineering Fundamentals
- Resolution in Support of our International Colleagues and Students
Salary Survey Results

1. How competitive is Michigan Tech in terms of salary when compared to institutions that directly compete with Michigan Tech in hiring and retaining faculty and staff?
   - 13.6 % (68) very competitive
   - 26.6 % (133) competitive
   - 38.3 % (191) somewhat competitive
   - 21.5 % (107) as similar to other institutions

2. How concerned are you about the status of salaries at Michigan Tech?
   - 54.7 % (280) very concerned or concerned
   - 21.3 % (109) not concerned or somewhat concerned
   - 24.0 % (123) respondents are neutral

3. Have you considered looking for and/or actively sought another position due to dissatisfaction with the benefits and/or salary at Michigan Tech?
   - 46.5 % (237) respondents answered ‘Yes’
   - 53.5 % (273) respondents answered ‘No’
1. Sustainability & Recycling *Presented by Jay Meldrum*
2. Dual Career Program
4. SARA (National Council for State Authorization Reciprocity Agreements) for online/distance education programs. *Academic and Instructional Policy Committee, Center for Teaching and Learning*
5. Presidents Survey *(completed. Data being evaluated.)*
6. Fringe Benefits survey and analysis of the past 10+ years of fringe benefits. *(completed. Data being evaluated.)* *Fringe Benefits Committee*
7. Report on Technology in Classroom
USG Update

March 3, 2017
Samuel Casey, USG President
Agenda

• SAF Review

• Shared Governance in Michigan Universities

• Prince’s Point Management

• Other USG Initiatives
SAF Review

- USG will not be requesting an increase for the 2017-18 school year
- Refocusing on 3 year review cycle
  - Tentatively begin review next year
  - Considering a USG Bylaw amendment
- Continuing research on student fees through Spring 2017
Shared Governance in Michigan Universities

• Continuing to pursue student representation to boards through SAM

• NMU student government conference

• Still seeking institutional support from Michigan Tech
Prince’s Point - Value to Students

- Outdoor Recreation Assessment
  - 91.5% listed waterway access as a reason for attendance
  - 80% utilize waterways
- 2015 Keweenaw Economic Development Strategic Plan
  - Top Strengths: 1-Outdoor Recreation, 4-Natural Resources, 6-Waterways
- Open Space
  - Only open space with sight lines to the portage
- Venue
- Intrinsic Historic Value
Prince’s Point - Project

- Project spurred from conditions of overuse
  - Graffiti, trail erosion, tree damage, ash
- In the past 30 years, all efforts have been grassroots
  - No continuous long term management for the area
- 2008 was the last time funding was provided
  - Student Commission initiative to add firepit and benches
Prince’s Point - MAD Clean Up

Make a Difference Day (35 student volunteers)

- 10 gal of metal and glass
- 1.5 cubic yards of waste ash
- 100 gal of partially burned organic matter
- ¼ cubic yard of rocks
- Cleared ground vegetation
Prince’s Point - Next Steps

• Public Presentation - Feb. 16th
• By next BOT meeting
  • Report will be finalized
  • Recommendations for long term management will be developed
• The goal is to apply for grants
• Seeking support from the University
Other USG Initiatives

- Ice Skate Rentals
- USG Hockey Tailgate
- USG Chilli Van
- USG Marketing Plan
- USG Budget Hearings for FY18
- Forum with Jack Bergman (tentative)
Formal Session of the Board of Trustees - VI. Reports

Graduate Student Government
of Michigan Tech

Presented by
William Lytle
March, 2017

Board of Trustees
Michigan Technological University
Updates

❖ Graduate Student Activities Survey

❖ GSG internal evaluation

❖ Graduate Research Colloquium
Co-ownership

❖ Student Financial Relief
➢ Emergency student loan

❖ University Committee to address housing

❖ University Committee to improve transportation

❖ Continued work to improve sustainability on campus

Jump Start the Michigan Tech Campus Recycling Program

<table>
<thead>
<tr>
<th>Location</th>
<th>Diversion Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTU</td>
<td>12.5%</td>
</tr>
<tr>
<td>USA</td>
<td>35%</td>
</tr>
<tr>
<td>Germany</td>
<td>65%</td>
</tr>
</tbody>
</table>
Graduate Student Concerns

Cost of attendance
- Insurance rates
- Unsupported student ratio

Graduate Student Capacity
- Computers
- Offices/desks
- Housing/transportation

Diversity and Inclusion
- Immigration reform
- Reactions to political sphere
VII. INFORMATIONAL ITEMS

A. Analysis of Investments
B. University Issued Bond Balances
C. Research and Sponsored Programs Report
D. Advancement and Alumni Engagement Report
E. Recent Media Coverage
F. Employee Safety Statistics
G. Disposal of Surplus Property
VII-A. ANALYSIS OF INVESTMENTS

Attached are analyses of investments as of June 30, 2016 to December 31, 2016.
## MICHIGAN TECH UNIVERSITY
### INVESTMENT PORTFOLIO
#### JUNE 30, 2016 THROUGH DECEMBER 31, 2016

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Money Market Fund</td>
<td>$234,115</td>
<td>$236,860</td>
<td>$2,745</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>Equity Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware Value Fund</td>
<td>1,480,858</td>
<td>1,994,410</td>
<td>513,552</td>
<td>3.5%</td>
</tr>
<tr>
<td>Vanguard Extended Market Index Fund</td>
<td>2,278,142</td>
<td>2,557,766</td>
<td>279,624</td>
<td>13.3%</td>
</tr>
<tr>
<td>Vanguard 500 Index Fund</td>
<td>8,575,705</td>
<td>9,147,389</td>
<td>571,684</td>
<td>7.8%</td>
</tr>
<tr>
<td><strong>Total Equity Funds</strong></td>
<td>12,334,705</td>
<td>13,699,565</td>
<td>1,364,860</td>
<td></td>
</tr>
<tr>
<td><strong>Fixed Income Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lord Abbett Bond Debenture Fund</td>
<td>7,527,635</td>
<td>7,792,969</td>
<td>265,334</td>
<td>5.9%</td>
</tr>
<tr>
<td>Lord Abbett Short Duration Income Fund</td>
<td>7,523,781</td>
<td>7,454,597</td>
<td>(69,184)</td>
<td>1.1%</td>
</tr>
<tr>
<td><strong>Total Fixed Income Funds</strong></td>
<td>15,051,416</td>
<td>15,247,566</td>
<td>196,150</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$27,620,236</td>
<td>$29,183,991</td>
<td>$1,563,755</td>
<td>5.6%</td>
</tr>
</tbody>
</table>

- **Current Asset Allocation**
  - Money Market, 0.8%
  - Equities, 46.9%
  - Fixed Income, 52.3%
VII-B. UNIVERSITY ISSUED BOND BALANCES

Attached is an analysis of net revenues, debt retirement, and trustee reserve funds for University Bonded Operations for the period ended December 31, 2016.
### MICHIGAN TECH UNIVERSITY
### OUTSTANDING BALANCES ON BOND ISSUANCES
### DECEMBER 31, 2016

<table>
<thead>
<tr>
<th>Bonds Outstanding</th>
<th>Long-Term Outstanding Amount</th>
<th>Current Outstanding Amount</th>
<th>Total Outstanding</th>
<th>Original Issue Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series 2008 Bond Issue (maturity 2038)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase of UPPCO Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partial Funding of KRC Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUB Ballroom Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2008 Bond Issue</strong></td>
<td>$5,090,000</td>
<td>$-</td>
<td>$5,090,000</td>
<td>$15,880,000</td>
</tr>
<tr>
<td><strong>Series 2009A Bond Issue (maturity 2039)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Student Apartment Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partial Funding of KRC Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2009 Bond Issue</strong></td>
<td>15,180,000</td>
<td>420,000</td>
<td>$15,600,000</td>
<td>18,235,000</td>
</tr>
<tr>
<td><strong>Series 2010A Bond Issue (maturity 2040)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Lakes Research Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.E. Seaman Mineral Museum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRC Building Purchase (Blizzard Building)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life Safety Improvements on Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2010 Bond Issue</strong></td>
<td>8,120,000</td>
<td>220,000</td>
<td>$8,340,000</td>
<td>10,975,000</td>
</tr>
<tr>
<td><strong>Series 2012A Bond Issue (maturity 2034)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refunding of 2003 &amp; 2004 Fixed Rate Bond Issues</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDC Ice Plant and Partial Roof of SDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2012 Bond Issue</strong></td>
<td>27,660,000</td>
<td>1,255,000</td>
<td>$28,915,000</td>
<td>33,070,000</td>
</tr>
<tr>
<td><strong>Series 2013A Bond Issue (maturity 2036)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refunding 2006 Bond Issue</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Refunding partial 2008 Bond Issue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2013 Bond Issue</strong></td>
<td>12,025,000</td>
<td>765,000</td>
<td>$12,790,000</td>
<td>14,265,000</td>
</tr>
<tr>
<td><strong>Series 2015A Bond Issue (maturity 2046)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daniell Heights Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campus Dining Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Storage Tank Facility</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Storage Facility</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry Labs Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IT and Safety Systems Upgrades</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair Hall Bathrooms Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2015 Bond Issue</strong></td>
<td>23,435,000</td>
<td>435,000</td>
<td>$23,870,000</td>
<td>24,295,000</td>
</tr>
<tr>
<td><strong>Total - All Bond Issues</strong></td>
<td>$91,510,000</td>
<td>$3,095,000</td>
<td>$94,605,000</td>
<td>$116,720,000</td>
</tr>
</tbody>
</table>
VII-C. RESEARCH AND SPONSORED PROGRAMS REPORT

A report of contracts and grants is attached hereto.

This is for the Board's information.
Formal Session of the Board of Trustees - VII. Informational Items

Sponsored Awards
Fiscal Year 2017
2nd Quarter
Ended December 31, 2016
TOTAL: $28,876,949

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)
FYTD 2016: 28
FYTD 2017: 21

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '17 as of 12/31</th>
<th>FY '16 as of 12/31</th>
<th>FY '17 as of 12/31</th>
<th>FY '16 as of 12/31</th>
<th>Awards Received</th>
<th>Awards Received ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>30</td>
<td>40</td>
<td>15</td>
<td>8</td>
<td>1,181,411</td>
<td>597,282</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>106</td>
<td>115</td>
<td>29</td>
<td>37</td>
<td>5,401,863</td>
<td>4,939,588</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>39</td>
<td>29</td>
<td>23</td>
<td>12</td>
<td>2,053,585</td>
<td>1,047,827</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>47</td>
<td>38</td>
<td>51</td>
<td>26</td>
<td>6,258,638</td>
<td>3,853,204</td>
</tr>
<tr>
<td>US Department of Education</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>329,907</td>
<td>92,155</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>16</td>
<td>16</td>
<td>10</td>
<td>12</td>
<td>1,613,885</td>
<td>1,108,831</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>14</td>
<td>11</td>
<td>5</td>
<td>5</td>
<td>1,218,099</td>
<td>1,108,831</td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>10</td>
<td>8</td>
<td>7</td>
<td>4</td>
<td>1,218,099</td>
<td>1,108,831</td>
</tr>
<tr>
<td>Foreign</td>
<td>9</td>
<td>11</td>
<td>10</td>
<td>8</td>
<td>1,003,183</td>
<td>517,087</td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td>25</td>
<td>29</td>
<td>16</td>
<td>15</td>
<td>1,418,761</td>
<td>752,393</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>287</td>
<td>268</td>
<td>167</td>
<td>125</td>
<td>21,315,428</td>
<td>14,460,449</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>16</td>
<td>24</td>
<td>8</td>
<td>13</td>
<td>704,878</td>
<td>1,892,620</td>
</tr>
<tr>
<td>Industrial</td>
<td>112</td>
<td>100</td>
<td>101</td>
<td>106</td>
<td>3,731,477</td>
<td>4,557,476</td>
</tr>
<tr>
<td>Foreign</td>
<td>9</td>
<td>11</td>
<td>10</td>
<td>8</td>
<td>1,003,183</td>
<td>517,087</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>30</td>
<td>31</td>
<td>19</td>
<td>17</td>
<td>551,436</td>
<td>1,425,758</td>
</tr>
<tr>
<td>Subtotal</td>
<td>454</td>
<td>454</td>
<td>305</td>
<td>269</td>
<td>27,306,402</td>
<td>22,853,390</td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>152</td>
<td>180</td>
<td>1,564,540</td>
<td>6,033,755</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>4</td>
<td>8</td>
<td>6,007</td>
<td>6,478</td>
</tr>
<tr>
<td>Grand Total</td>
<td>454</td>
<td>454</td>
<td>461</td>
<td>457</td>
<td>28,876,949</td>
<td>28,893,623</td>
</tr>
</tbody>
</table>

| Variance $                     | 584,129           | 462,275           | 2,405,434         | 237,752           | 323,936         | 109,268             |
| Variance %                     | 97.8%             | 9.4%              | 62.4%             | 258.0%            | 25.0%           | 9.9%                |


**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.
**Formal Session of the Board of Trustees - VII. Informational Items**

### SPO & IIE Metrics

<table>
<thead>
<tr>
<th>Category</th>
<th>Administration</th>
<th>College of Engineering</th>
<th>College of Sciences &amp; Arts</th>
<th>Great Lakes Research Center</th>
<th>Keweenaw Research Center</th>
<th>Michigan Tech Research Institute</th>
<th>Pavlis Honors</th>
<th>School of Business &amp; Economics</th>
<th>School of Forest Resources &amp; Env Science</th>
<th>School of Technology</th>
<th>Totals</th>
<th>Fiscal Comparison</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposals Submitted</td>
<td>6</td>
<td>218</td>
<td>79</td>
<td>-</td>
<td>44</td>
<td>45</td>
<td>-</td>
<td>2</td>
<td>57</td>
<td>3</td>
<td>454</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>Awards Received</td>
<td>86</td>
<td>184</td>
<td>36</td>
<td>3</td>
<td>42</td>
<td>38</td>
<td>19</td>
<td>3</td>
<td>46</td>
<td>4</td>
<td>461</td>
<td>0.9%</td>
<td></td>
</tr>
<tr>
<td>Federal</td>
<td>80,994</td>
<td>5,004,480</td>
<td>3,999,657</td>
<td>-</td>
<td>2,889,714</td>
<td>1,017,835</td>
<td>97,521</td>
<td>-</td>
<td>2,420,985</td>
<td>-</td>
<td>15,511,186</td>
<td>11,391,327</td>
<td>36.2%</td>
</tr>
<tr>
<td>Foreign</td>
<td>-</td>
<td>767,338</td>
<td>135,845</td>
<td>-</td>
<td>-</td>
<td>100,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4,557,476</td>
<td>-18.1%</td>
<td></td>
</tr>
<tr>
<td>Gifts</td>
<td>713,505</td>
<td>547,167</td>
<td>51,352</td>
<td>2,250</td>
<td>9,433</td>
<td>-</td>
<td>17,500</td>
<td>174,638</td>
<td>-</td>
<td>3,731,477</td>
<td>4,557,476</td>
<td>-18.1%</td>
<td></td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>555</td>
<td>1,655</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5,222,735</td>
<td>-74.1%</td>
<td></td>
</tr>
<tr>
<td>Industry</td>
<td>162,478</td>
<td>935,052</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>118,221</td>
<td>118,221</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5,804,242</td>
<td>89.1%</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>12,000</td>
<td>143,500</td>
<td>47,671</td>
<td>-</td>
<td>-</td>
<td>192,177</td>
<td>15,000</td>
<td>-</td>
<td>141,088</td>
<td>-</td>
<td>551,436</td>
<td>-61.3%</td>
<td></td>
</tr>
<tr>
<td>State of MI</td>
<td>60,190</td>
<td>644,688</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>704,878</td>
<td>-62.8%</td>
<td></td>
</tr>
<tr>
<td>TOTAL $ by Division</td>
<td>10,868,031</td>
<td>4,823,204</td>
<td>77,250</td>
<td>5,222,735</td>
<td>3,557,829</td>
<td>303,529</td>
<td>26,297</td>
<td>2,873,132</td>
<td>35,500</td>
<td>28,876,949</td>
<td>28,893,623</td>
<td>-0.1%</td>
<td></td>
</tr>
<tr>
<td>Fiscal Comparison</td>
<td>3,074,865</td>
<td>9,966,308</td>
<td>7,505,503</td>
<td>3,519,646</td>
<td>2,889,714</td>
<td>1,017,835</td>
<td>250,418</td>
<td>91,000</td>
<td>1,952,592</td>
<td>-</td>
<td>28,893,623</td>
<td>-0.1%</td>
<td></td>
</tr>
<tr>
<td>Percent Change</td>
<td>-64.6%</td>
<td>9.0%</td>
<td>-35.7%</td>
<td>N/A</td>
<td>48.4%</td>
<td>40.4%</td>
<td>21.2%</td>
<td>-71.1%</td>
<td>47.1%</td>
<td>N/A</td>
<td>0.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disclosures Received</td>
<td>-</td>
<td>84.62%</td>
<td>7.69%</td>
<td>-</td>
<td>7.69%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13</td>
<td>10</td>
<td>30.0%</td>
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<td>Non-disclosure Agreements</td>
<td>1</td>
<td>29</td>
<td>2</td>
<td>-</td>
<td>7</td>
<td>7</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>48</td>
<td>55</td>
<td>-12.7%</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>-</td>
<td>40.00%</td>
<td>60.00%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>7</td>
<td>28.6%</td>
<td></td>
</tr>
<tr>
<td>License Agreements</td>
<td>-</td>
<td>5</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>10</td>
<td>6</td>
<td>66.7%</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>-</td>
<td>4.76%</td>
<td>23.81%</td>
<td>-</td>
<td>23.81%</td>
<td>42.86%</td>
<td>-</td>
<td>4.76%</td>
<td>-</td>
<td>172,535</td>
<td>131,619</td>
<td>31.1%</td>
<td></td>
</tr>
</tbody>
</table>

1 Combined Metrics from both the Sponsored Programs Office (SPO) and Innovation & Industry Engagement (IIE)
2 Percentages reflect the proportional contribution from each Division (calculated by dividing the sum of the fractional contributions of all inventors for each unit by the total number of inventors).
### Sponsored Awards - Industry COMBINED
Fiscal Year 2017 2nd Quarter
Ended December 31, 2016

**TOTAL:** $7,929,731

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>FY '17 as of 12/31</th>
<th>FY '16 as of 12/31</th>
<th>FY '17 as of 12/31</th>
<th>FY '16 as of 12/31</th>
<th>Variance</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>50</td>
<td>45</td>
<td>75</td>
<td>88</td>
<td>3,559,220</td>
<td>3,205,768</td>
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<tr>
<td>Business &amp; Economics</td>
<td>2</td>
<td>2</td>
<td>9</td>
<td>10</td>
<td>303,657</td>
<td>111,200</td>
</tr>
<tr>
<td>Chemical</td>
<td>1</td>
<td>6</td>
<td>7</td>
<td>21</td>
<td>93,346</td>
<td>390,273</td>
</tr>
<tr>
<td>Civil</td>
<td>8</td>
<td>6</td>
<td>13</td>
<td>13</td>
<td>156,399</td>
<td>400,668</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>10</td>
<td>14</td>
<td>21</td>
<td>31</td>
<td>377,636</td>
<td>462,818</td>
</tr>
<tr>
<td>Defense &amp; Space</td>
<td>18</td>
<td>14</td>
<td>26</td>
<td>12</td>
<td>1,092,091</td>
<td>687,115</td>
</tr>
<tr>
<td>Energy</td>
<td>9</td>
<td>4</td>
<td>31</td>
<td>25</td>
<td>424,613</td>
<td>507,992</td>
</tr>
<tr>
<td>Environmental</td>
<td>7</td>
<td>3</td>
<td>6</td>
<td>6</td>
<td>86,055</td>
<td>67,909</td>
</tr>
<tr>
<td>Health</td>
<td>10</td>
<td>10</td>
<td>15</td>
<td>13</td>
<td>471,469</td>
<td>164,390</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>5</td>
<td>3</td>
<td>11</td>
<td>14</td>
<td>143,085</td>
<td>95,520</td>
</tr>
<tr>
<td>IT Services</td>
<td>4</td>
<td>6</td>
<td>9</td>
<td>7</td>
<td>616,769</td>
<td>211,500</td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>9</td>
<td>9</td>
<td>23</td>
<td>23</td>
<td>352,639</td>
<td>229,710</td>
</tr>
<tr>
<td>Other</td>
<td>9</td>
<td>2</td>
<td>16</td>
<td>11</td>
<td>167,322</td>
<td>105,601</td>
</tr>
<tr>
<td>Technology</td>
<td>6</td>
<td>3</td>
<td>6</td>
<td>10</td>
<td>85,430</td>
<td>173,222</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>148</strong></td>
<td><strong>127</strong></td>
<td><strong>268</strong></td>
<td><strong>284</strong></td>
<td><strong>7,929,731</strong></td>
<td><strong>6,813,686</strong></td>
</tr>
</tbody>
</table>

*Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.*

**Gift numbers include Industry gifts ONLY, not others including Association or Society gifts.*
### Michigan Technological University

**Total Research Expenditures by College/School/Division**

**Fiscal Year 2017 & 2016**

**As of December 31, 2016 and December 31, 2015**

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2017</th>
<th>FY2016</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,980,775</td>
<td>2,198,980</td>
<td>781,795</td>
<td>35.6%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>11,087,618</td>
<td>12,758,079</td>
<td>(1,670,461)</td>
<td>-13.1%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>7,412,891</td>
<td>7,621,723</td>
<td>(208,832)</td>
<td>-2.7%</td>
</tr>
<tr>
<td>Great Lakes Research Center</td>
<td>73,028</td>
<td>N/A</td>
<td>73,028</td>
<td>N/A</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>111,326</td>
<td>113,267</td>
<td>(1,941)</td>
<td>-1.7%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>2,891,073</td>
<td>3,100,967</td>
<td>(209,894)</td>
<td>-6.8%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>3,916,244</td>
<td>4,394,103</td>
<td>(477,859)</td>
<td>-10.9%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>681,881</td>
<td>787,057</td>
<td>(105,176)</td>
<td>-13.4%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>2,712,454</td>
<td>2,347,146</td>
<td>365,308</td>
<td>15.6%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>238,303</td>
<td>280,835</td>
<td>(42,532)</td>
<td>-15.1%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32,105,593</strong></td>
<td><strong>33,602,157</strong></td>
<td><strong>(1,496,564)</strong></td>
<td><strong>-4.5%</strong></td>
</tr>
</tbody>
</table>

*Includes the Vice Presidents, Provost, and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.*
VII-D. ADVANCEMENT AND ALUMNI ENGAGEMENT REPORT

Attached is a report from Dr. Les Cook, Vice President for Student Affairs and Advancement, on the university’s advancement and alumni relations activities.

This is for the Board’s information.
Advancement and Annual Giving

- A total of $43.3 million was raised for Michigan Tech from July 1, 2016 through January 31, 2017—124% of the fundraising goal of $35.0 million for FY 2017.

- Major/Planned Giving raised $32.2 million in the first seven months of FY 2017—184% of its $17.5 million FY goal.
  - Includes $25 million documented by a planned gift donor who wants to remain anonymous

- Remaining pending gift asks for this category total $39.9 million as of January 31, 2017

- The planned giving registry totals $174.6 million as of January 31, 2017.
  - $109.6 million (63%) is endowed
  - $154.2 million (88%) is revocable

- $1.5 million realized in FY to date; actuarial expectancy of $67.8 million for next 15 years

- Annual giving total is at $1.83 million toward our goal of $2.75 million (67% of goal).

- Annual fund total $1.036 million toward our goal of $1.5 million (69% of goal).

- A new Michigan Tech giving website was launched in December, and the monthly Michigan Tech Gift Legacy e-newsletter has been revamped.

- Advancement has been working with the deans and executive team on the development of high-level fundraising strategy and evolving lists of funding priorities.

- An emphasis has been placed on visiting prospects identified by Wealth Engine in its fall 2015 screening.

- There has been increased gift proposal activity for named scholarship funds, the Alumni Way, the football stadium, and other projects.

- Paul ’65 and Sandra Fernstrum, again this year, are sponsoring an event for alumni/friends in the Naples-Marco Island FL area. President Mroz will give a University update at the March 28 event.
Alumni Engagement

- Successful GLI tournament at the Joe Louis arena on 12/29-30. This was the final GLI at the Joe and will be transitioning to the new arena for next season.

- My Michigan Tech (MMT) alumni portal launched on 1/19 allowing with a searchable Alumni directory, ability to update information, and share their news with classmates in the portal.

- Pasties with the President event in Carefree, AZ where Glenn, Gail, and Brenda Rudiger hosted several alums to share Tech memories and hear updates from campus on 1/27.

- Dr. Lorelle Meadow (Dean of the Pavlis honors college) and Mr. Adam Johnson (Senior Advancement Officer) hosted an event in San Francisco which included multiple Bay Area alums on 2/8.

- Successful Winter Carnival alumni vs. student broomball invitational tournament drawing 13 alumni teams from all age ranges. The Pirate Sheep alumni team bested the student Pirate Sheep team in overtime to win the cup. Broomball athletes enjoyed camaraderie, a traditional pasty and picked egg dinner.
VII-E. RECENT MEDIA COVERAGE

Included herein are recent news items that have appeared throughout the country.

This is for the Board’s information.
News Media Report
University Marketing & Communications
November 28, 2016 – February 14, 2017

### News by Category

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletics</td>
<td>1,684</td>
</tr>
<tr>
<td>Alumni</td>
<td>546</td>
</tr>
<tr>
<td>Research</td>
<td>386</td>
</tr>
<tr>
<td>Student Life</td>
<td>291</td>
</tr>
<tr>
<td>Business/People</td>
<td>78</td>
</tr>
<tr>
<td>Events</td>
<td>1,113</td>
</tr>
<tr>
<td>Hometown News</td>
<td>206</td>
</tr>
<tr>
<td>Curricula/Programs</td>
<td>249</td>
</tr>
<tr>
<td>Other</td>
<td>312</td>
</tr>
</tbody>
</table>

**Total Traditional Media** 4,865

### Social Media

Michigan Tech’s social media followers have increased dramatically over the past year. Here are the numbers from November 18, 2016 through February 9, 2017:

- **Facebook**: 5,458,687 post impressions/42,994 post clicks
- **Twitter**: 278,330 post impressions/935 post clicks
- **Instagram**: 26,023 photo/video likes; 170 comments
- **LinkedIn**: 1,811 page views/2,051 new followers
- **YouTube**: 31,514 video views/51,758 minutes watched/1,504 subscribers
- **Snapchat**: 984 friends
- **Pinterest**: 171 followers
A Few Examples

Money magazine listed Michigan Tech among the 11 Public Colleges Where Grads Make Six Figures. The article says a Michigan Tech graduate's mid-career salary averages $101,000. Tech was #10 on the list. The University of California-Berkeley topped the list with a graduate's mid-career salary average of $116,000.

Science 360, a science news web site published by the National Science Foundation, featured the Michigan Tech cloud chamber as its Picture of the Day.

TechCentury, an engineering and technology publication of the Engineering Society of Detroit, reported on research led by Pengfei Xue, assistant professor of civil and environmental engineering, using computer modeling to better predict weather and its impacts on the Great Lakes.

Science magazine, an international journal, ran an article titled "In Reversal, U.S. Park Service Aims to Move New Wolves to Isle Royale." Rolf Peterson (SFRES) was quoted in the story.

Copper Country Today, a radio program that airs on Sundays on WOLV-FM, WHKB-FM and WCCY-AM/FM, interviewed Latika Gupta, assistant professor in the School of Business and Economics, and Nancy Langston, professor of social sciences, about the Standing Rock Sioux and the Dakota Access Pipeline protests. Langston focused on sovereignty and environmental justice issues, and Gupta provided an economic perspective.

The Alaska Dispatch News published an article on tundra fires research, quoting a recent Michigan Tech Research Institute study.

ESPN featured Tech alumnus and hockey player John Scott on the front page of its NHL website.

The New York Times quoted retired biology and chemistry professor Terry Warrington in an article on a controversial trout hatchery on the Au Sable River in Grayling, Michigan.

The Green Valley (Arizona) News published a feature article about former Michigan Tech President Ray Smith, on the occasion of his 100th birthday on Wednesday, Jan. 25.

The News Journal of Delaware, WLUC-TV6, WBUP-TV 10, WJMN-TV 3, the Daily Mining Gazette and other news outlets covered the story of Tech graduate student Shadi Darani, whose mother was turned away and sent back to Iran in the wake of President Trump's executive order last weekend.
BBC-TV aired a science and technology segment about the work of the Great Lakes Research Center on its Arabic programming channel. A BBC crew came to Tech to shoot this and several other research stories last spring.

The Washington Post and Politico Pro published stories about the colleges and universities, including Michigan Tech, whose presidents signed a letter to Homeland Security Secretary John Kelly, expressing concerns about the president's executive order that halted the admission of new refugees into the US, imposed an indefinite ban on the entry of refugees from Syria and suspended the entry of citizens of seven Muslim-majority countries.

The Detroit Free Press published an article on the 10 best cross-country ski trail systems in Michigan, including the Keweenaw trails and a photo of the Tech Trails.

WJMN-TV 3 broadcast a news story about Michigan Tech graduates’ low student loan default rate.

The winter 2017 issue of the SWE Magazine, published by the Society of Women Engineers, highlighted the teaching and research efforts of Caryn Heldt, associate professor of chemical engineering.

The Daily Mining Gazette published a column written by Blue Key Vice President Brian Kass, objecting to the implication of a headline about a "Pre-Carnival drug bust." Kass pointed out that the drug bust had absolutely nothing to do with Winter Carnival, sponsored by the Blue Key Honor Society, stating that the headline tarnished the reputation of the event. In the same edition of the paper, the Mining Gazette ran an editorial defending their headline.

Science News, AZo Mining, International Business Times and many other science and geology news websites around the world reported on Michigan Tech alumni’s discovery of three new uranium minerals.

The San Antonio Business News, the Seattle Post Intelligencer and other news outlets around the country reported on the new officers and board of directors of the national Green Building Initiative. Amlan Mukherjee, associate professor of civil and environmental engineering, was named to the board.
CHARTS and GRAPHS

News by Category Chart

11/28/2016 to 2/14/2017
News Map
Sample Clippings
<table>
<thead>
<tr>
<th>College Name</th>
<th>City</th>
<th>State</th>
<th>Type</th>
<th>Application</th>
<th>Entrance</th>
</tr>
</thead>
<tbody>
<tr>
<td>The University of Texas</td>
<td>Dallas</td>
<td>TX</td>
<td>Public</td>
<td>Richardson</td>
<td>May 1</td>
</tr>
<tr>
<td>at Dallas</td>
<td></td>
<td></td>
<td></td>
<td>Richardson</td>
<td></td>
</tr>
<tr>
<td>College of Saint Joseph</td>
<td>St. Louis</td>
<td>MO</td>
<td>Private</td>
<td>Joseph</td>
<td>May 1</td>
</tr>
<tr>
<td>Benedict</td>
<td></td>
<td></td>
<td></td>
<td>Joseph</td>
<td></td>
</tr>
<tr>
<td>Purdue University</td>
<td>West Lafayette</td>
<td>IN</td>
<td>Public</td>
<td>Lafayette</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>Minneapolis</td>
<td>MN</td>
<td>Public</td>
<td>Minneapolis</td>
<td>May 1</td>
</tr>
<tr>
<td>St. John's University</td>
<td>Collegeville</td>
<td>MN</td>
<td>Public</td>
<td>Collegeville</td>
<td>May 1</td>
</tr>
<tr>
<td>Massachusetts Maritime Academy</td>
<td>Buzzards Bar</td>
<td>MA</td>
<td>Private</td>
<td>Buzzards Bar</td>
<td>May 1</td>
</tr>
<tr>
<td>College</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Michigan</td>
<td>East Lansing</td>
<td>MI</td>
<td>Public</td>
<td>East Lansing</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Colorado</td>
<td>Boulder</td>
<td>CO</td>
<td>Public</td>
<td>Boulder</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Arizona</td>
<td>Tucson</td>
<td>AZ</td>
<td>Public</td>
<td>Tucson</td>
<td>May 1</td>
</tr>
<tr>
<td>University of California</td>
<td>Los Angeles</td>
<td>CA</td>
<td>Public</td>
<td>Los Angeles</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Oregon</td>
<td>Eugene</td>
<td>OR</td>
<td>Public</td>
<td>Eugene</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Washington</td>
<td>Seattle</td>
<td>WA</td>
<td>Public</td>
<td>Seattle</td>
<td>May 1</td>
</tr>
<tr>
<td>University of Wisconsin</td>
<td>Madison</td>
<td>WI</td>
<td>Public</td>
<td>Madison</td>
<td>May 1</td>
</tr>
</tbody>
</table>
Michigan Tech spinoff's device screens would-be donors' blood — before donation

The device, which has a patent pending, would eliminate waste and speed up the donation process.

by Tammi Henderson

MicroDevice Engineering, Inc., a spinoff from Michigan Technological University in Houghton, is aiming to market a battery-operated device to help blood donation centers determine blood type and screen for diseases and anemia in the blood of would-be donors.

Such a device, whose patent is pending, would eliminate waste and speed up the donation process. It would eliminate, for example, the donation of blood that has been contaminated by disease, such as hepatitis. Instead of taking contaminated blood and testing it later, then throwing it away — not to mention the time involved of health care workers — if it doesn’t meet specifications, blood banks would test the would-be donor thanks but no thanks.

It is estimated that up to 20 percent of donated blood is thrown out.

MicroDevice is an example of the “it takes a village” philosophy of growing tech companies in Michigan these days.

The company was co-founded by Adrienne Minerick, the associate dean for research and innovation in Michigan Tech’s College of Engineering, a professor of chemical engineering and an adjunct professor of biomedical engineering, and by Mary Raber, the assistant dean of academic programs for the school’s Pavis Honors College and co-director of its Innovation Center for Entrepreneurship.

Minerick and Raber formed the company while participating in the National Science Foundation’s I-Corps program, which coaches academics on how to commercialize their work. The company has received nearly $1.3 million in NSF grants.

The I-Corps program followed their participation in Maseron’s ACTIVITIE program, which offers training for women entrepreneurs.

The Maseron participation, in turn, was sponsored jointly by Michigan Tech and the Michigan Tech Enterprises Corp. SmartZone.

In all, a variety of school and state programs contributed a total of $355,000 to MicroDevice, including funding from the Michigan Translational Research and Commercialization (M-TRAC) program and the Michigan Tech-Transfer Talent Network (T3N), two...
GV metallurgist, abandoned mine hunter hits the big 100
VII-F. EMPLOYEE SAFETY STATISTICS

Included herein is a report from the Health and Safety Task Force and Human Resources.

This is for the Board’s information.
### Employee Safety Statistics Year-to-Date

**January - December**

<table>
<thead>
<tr>
<th>Category</th>
<th>Years</th>
<th>Category</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Employee Classification</strong></td>
<td></td>
<td><strong>AFSCME</strong></td>
<td><strong>Faculty</strong></td>
</tr>
<tr>
<td>Injury Only w/Medical - No Loss Time</td>
<td></td>
<td>2015</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>1</td>
</tr>
<tr>
<td>Lost Time Cases</td>
<td></td>
<td>2015</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>4</td>
</tr>
<tr>
<td>Restricted Work Cases</td>
<td></td>
<td>2015</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>0</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)</td>
<td></td>
<td>2015</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>5</td>
</tr>
<tr>
<td><strong>Number of Recordable Injuries</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Days</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injury Loss Time</td>
<td></td>
<td>2015</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>56</td>
</tr>
<tr>
<td>Restricted Work Days</td>
<td></td>
<td>2015</td>
<td>206</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>0</td>
</tr>
<tr>
<td><strong>Hours Worked</strong></td>
<td></td>
<td>2015</td>
<td>284,151</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>291,820</td>
</tr>
<tr>
<td><strong>Percentage of Work Hours</strong></td>
<td></td>
<td>2015</td>
<td>11.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>11.3%</td>
</tr>
<tr>
<td><strong>Rates</strong></td>
<td></td>
<td>2015</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>2.7</td>
</tr>
<tr>
<td>Lost Time Case Rate</td>
<td></td>
<td>2015</td>
<td>5.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2016</td>
<td>3.4</td>
</tr>
</tbody>
</table>

OSHA has established specific calculations that enable the University to report the Recordable Injuries, Lost Time Case Rates and Frequency Rates. The Standard Base Rate (SBR) calculation is based on a rate of 200,000 labor hours which equates to 100 employees who work 40 hours per week for 50 weeks per year. Using the SBR allows the University to calculate their rate(s) per 100 employees.

1. The Lost Time Case Rate is calculated by multiplying the number of Lost Time Cases by 200,000 then dividing by the labor hours at the University.

2. The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the University.

3. The number of days are total days for the life of the cases first reported during this period.

According to the Bureau of Labor Statistics (BLS) for 2015, the average Lost Time Rate of days away from work for Colleges and Universities over 1,000 employees was 0.5 and the average Frequency Rate for Colleges and Universities over 1,000 employees was 1.8. The BLS rates for 2016 have not yet been developed.
VII-G. DISPOSAL OF SURPLUS PROPERTY

In accordance with Board of Trustees policy 11.11. Disposal of Surplus Property, included herein is a report on the disposal of surplus property for 2016.

This is for the Board’s information.
VIII. OTHER BUSINESS
IX. PUBLIC COMMENTS
X. INFORMAL CLOSED SESSION FOR REVIEW OF PENDING LITIGATION
AND A PERIODIC PERSONNEL EVALUATION OF PRESIDENT MROZ
XI. ADJOURNMENT