AGENDA
Formal Session of the Board of Trustees
Michigan Technological University
9:00 a.m. – October 20, 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 – Linda Kennedy
      - 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. Audit and Finance Committee – Steve Tomaszewski
      - Treasurer’s Report - Ms. Julie Seppala, Treasurer
      - External Auditor’s Report – Randy J. Morse, Andrews Hooper Pavlik
   C. Leadership Committee – Brenda Ryan
   D. Presidential Search Committee – Bill Johnson

IV. Consent Agenda
   A. Approval of Minutes
   B. Degrees in Course
   C. Gifts
   D. Resignations, Retirements and Off Payroll
   E. 2018 Meeting Dates

V. Action/Discussion Items
   A. Appointment, Involving Tenure/Promotion
   B. Honorary Degree
   C. Five-Year State Capital Outlay Plan and FY2019 Capital Project Request
   D. Revision to Board of Trustees Policy 15.1. University Research and
      Sponsored Program Cost Principles
   E. Approval for Revisions to University Senate Constitution

VI. Reports
   A. Undergraduate Student Government Report – Mitchell Sanford, President
   B. Graduate Student Government Report – Hossein Tavakoli, President
   C. University Senate Report – Dr. Martin Thompson, 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

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 October 20, 2017 as distributed to the Board.
II. OPENING REMARKS

A. CHAIR’S COMMENTS

B. PRESIDENT’S COMMENTS
III. COMMITTEE REPORTS

A. ACADEMIC AFFAIRS COMMITTEE – Linda Kennedy
   - 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. AUDIT AND FINANCE COMMITTEE – Steve Tomaszewski
   - Treasurer’s Report - Ms. Julie Seppala, Treasurer
   - External Auditor’s Report – Randy J. Morse, Andrews Hooper Pavlik

C. LEADERSHIP COMMITTEE – Brenda Ryan

D. PRESIDENTIAL SEARCH COMMITTEE – Bill Johnson
Provost’s Report

Jackie Huntoon

October 20, 2017
FY 2017 – Undergraduate Outcomes

• **1,115** Baccalaureate Degrees
  • **141** Cum Laude
  • **128** Magna Cum Laude
  • **68** Summa Cum Laude
• **40** Certificates

• Placement
  • **94.1%** Total Placement (within six months of graduation)
  • **$62,000** Median Salary

Honor Types

- **13%**
- **11%**
- **6%**
- **70%**
FY 2017 – Graduate Outcomes and Funding

- 577 Graduate Students Graduated (Highest Number Ever)
  - 489 Master’s
  - 88 PhD
- PhD Support
  - 30% Self
  - 39% External
  - 31% Internal
- Master’s Support
  - 87% Self
  - 7% External
  - 6% Internal
FY 2017 – Faculty and Researchers

- **337** T&TT Faculty
  - **110** Full Professor
  - **130** Associate Professor
  - **97** Assistant Professor
- **116** N-T&TT Faculty
  - **9** (Full, Assoc., Asst.) Professor
  - **40** Instructor
  - **54** Lecturer
  - **13** Professor of Practice
- **170** Researchers
  - **160** Research Profs, Scis, Engrs
  - **10** Post-Docs
- **T&TT Faculty Demographics**
  - **27.3%** Female
  - **23.1%** Domestic URM

Faculty and Researchers FY 03-17

- Tenured and Tenure Track Faculty
- Non-Tenure Track Faculty
- Research Staff
Fall 2016 – Faculty and Researchers

Public Higher-Research Universities
Fall 2015

- Part-time non-TT: 28%
- Full-time non-TT: 22%
- Full-time T/TT: 50%

Michigan Tech
Fall 2016

- Part-time non-TT: 13%
- Full-time non-TT: 16%
- Full-time T/TT: 70%

Source: Integrated Postsecondary Education Data System (IPEDS)
## FY 2018 – New Faculty

### Tenured/Tenure-Track Faculty
- **14 New in Fall 2017**
  - 1 School of Business and Economics
  - 1 School of Forest Resources and Environmental Sciences
  - 5 College of Engineering
  - 7 College of Sciences and Arts

### Non-Tenure Track Faculty
- **12 New in Fall 2017**
  - 1 Pavlis Honors College
  - 1 School of Forest Resources and Environmental Sciences
  - 1 School of Technology
  - 3 College of Engineering
  - 6 College of Sciences and Arts
Earthworms at the Root of Sugar Maple Decline

Tara Bal, Research Assistant Professor
School of Forest Resources and Environmental Science

Observation of a large-scale anisotropy in the arrival directions of cosmic rays above $8 \times 10^{18}$ eV

Brian Fick

David Nitz

Shipwrecks in Thunder Bay

Guy Meadows, Jamey Anderson, Chris Pinnow

Great Lakes Research Center
Michigan Technological University

Michigan Tech
**Emily Prehoda**, a PhD student in Environmental and Energy Policy is conducting a survey in L’Anse this fall to see if alternative energy is feasible and socially acceptable.

**Adam Pringle**, a PhD student in Materials Science and Engineering will be one of nine finalists worldwide traveling to Hamburg, Germany October 30 to participate in the “Make a Difference” challenge.
Dr. Leonard Bohmann, Associate Dean for Academic Affairs & Professor of Electrical and Computer Engineering was recognized by ABET for his service since 2005. In 2016 he became team chair and a commissioner on the Engineering Accreditation Commission.

Dr. Xiaohu Xia was recognized in NSF’s Chemistry Division Newsletter for his CAREER Award, “Engineering Bimetallic Nanostructures as Peroxidase Mimics for Diagnostic Applications.”

Dr. Janice Glime, Professor Emerita had an issue of Bryophyte Diversity and Evolution dedicated to her. Two new species are also being named for Glime.

Dr. Leonard Bohmann, Associate Dean for Academic Affairs & Professor of Electrical and Computer Engineering was recognized by ABET for his service since 2005. In 2016 he became team chair and a commissioner on the Engineering Accreditation Commission.
UP Teaching & Learning Conference

Inaugural Event held May 4 & 5, 2017 on Michigan Tech’s Campus

Keynote Speaker:
Dr. Christine Harrington, licensed psychologist, Professor of History and Social Sciences, Director of the Center for Enrichment of Learning and Teaching at Middlesex County College and author of “Student Success in College: Doing What Works!”

More than 30 instructors from Michigan Tech and Northern Michigan presented.

Sessions Included:
- Active Learning
- Assessment
- Online Learning
- Other Issues in Higher Ed

Over 130 instructors from four institutions in the Upper Peninsula and Northern Wisconsin were in attendance.

Due to the success, next year’s event has already been scheduled for May 10 & 11, 2018.
Thank you
Sponsored Program Summary
Unaudited FY17 Activities
October 20, 2017

David Reed
Vice President for Research
Outline

• Sponsored Awards, Unaudited FY17
• Research Expenditures, Unaudited FY17
• Intellectual Property/Commercialization, Unaudited FY17
• Corporate Sponsorship, Unaudited FY17
Sponsored Awards, Unaudited FY17
Sponsored Awards, Unaudited FY17

Sponsored Awards
Fiscal Year 2017
4th Quarter
Ended June 30, 2017
TOTAL: $59,714,383

Pre-Proposals Submitted
FYTD 2016: 63
FYTD 2017: 56

- National Science Foundation: $11,268,683
- US Department of Agriculture: $3,977,021
- US Department of Defense: $12,680,388
- US Department of Education: $382,898
- US Department of Energy: $4,908,866
- US Department of Health and Human Services: $1,703,759
- US Department of Transportation: $3,264,556
- Other Federal Agencies*: $2,722,642
- State of Michigan: $1,770,931
- Industrial: $7,068,997
- Foreign: $1,184,275
- All Other Sponsors: $1,570,066
- NASA: $3,004,822
- National Science Foundation: $11,268,683

Formal Session of the Board of Trustees - III. Committee Reports
# Sponsored Awards, Unaudited 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 as of 6/30</td>
<td>FY '16 as of 6/30</td>
<td>FY '17 as of 6/30</td>
<td>FY '16 as of 6/30</td>
<td>FY '17 as of 6/30</td>
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<tr>
<td>NASA</td>
<td>58</td>
<td>71</td>
<td>35</td>
<td>29</td>
<td>3,004,822</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>168</td>
<td>186</td>
<td>60</td>
<td>65</td>
<td>11,268,683</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>69</td>
<td>48</td>
<td>43</td>
<td>43</td>
<td>3,977,021</td>
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<tr>
<td>US Department of Defense</td>
<td>90</td>
<td>72</td>
<td>100</td>
<td>69</td>
<td>12,680,388</td>
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<tr>
<td>US Department of Education</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>382,898</td>
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<tr>
<td>US Department of Energy</td>
<td>30</td>
<td>40</td>
<td>17</td>
<td>20</td>
<td>4,908,866</td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>47</td>
<td>45</td>
<td>10</td>
<td>15</td>
<td>1,703,759</td>
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<tr>
<td>US Department of Transportation</td>
<td>15</td>
<td>23</td>
<td>22</td>
<td>20</td>
<td>3,264,556</td>
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<tr>
<td>Other Federal Agencies*</td>
<td>52</td>
<td>55</td>
<td>35</td>
<td>29</td>
<td>2,772,642</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>531</td>
<td>543</td>
<td>325</td>
<td>292</td>
<td>43,913,635</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>31</td>
<td>41</td>
<td>20</td>
<td>28</td>
<td>1,770,931</td>
</tr>
<tr>
<td>Industrial</td>
<td>200</td>
<td>181</td>
<td>190</td>
<td>188</td>
<td>7,068,997</td>
</tr>
<tr>
<td>Foreign</td>
<td>17</td>
<td>19</td>
<td>17</td>
<td>16</td>
<td>1,184,275</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>93</td>
<td>72</td>
<td>40</td>
<td>31</td>
<td>1,570,066</td>
</tr>
<tr>
<td>Subtotal</td>
<td>872</td>
<td>856</td>
<td>592</td>
<td>555</td>
<td>55,507,904</td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>305</td>
<td>334</td>
<td>4,179,577</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>17</td>
<td>27</td>
<td>26,092</td>
</tr>
<tr>
<td>Grand Total</td>
<td>872</td>
<td>856</td>
<td>914</td>
<td>916</td>
<td>59,714,383</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, Unaudited 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>2,926,767</td>
<td>2,652,771</td>
<td>273,996</td>
<td>10.3%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>25,217,506</td>
<td>28,885,027</td>
<td>(3,667,521)</td>
<td>-12.7%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>16,643,420</td>
<td>16,825,212</td>
<td>(181,792)</td>
<td>-1.1%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>232,583</td>
<td>N/A</td>
<td>232,583</td>
<td>N/A</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>298,791</td>
<td>284,189</td>
<td>14,602</td>
<td>5.1%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>7,928,461</td>
<td>7,076,343</td>
<td>852,118</td>
<td>12.0%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>8,412,594</td>
<td>8,912,958</td>
<td>(500,364)</td>
<td>-5.6%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>1,353,978</td>
<td>1,630,253</td>
<td>(276,275)</td>
<td>-16.9%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>5,894,354</td>
<td>5,508,378</td>
<td>385,976</td>
<td>7.0%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>557,241</td>
<td>760,637</td>
<td>(203,396)</td>
<td>-26.7%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>69,465,695</td>
<td>72,535,768</td>
<td>(3,070,073)</td>
<td>-4.2%</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.

**Includes GLRC department (non-academic researchers) expenditures only. All other GLRC center expenditures are shown in the researchers' respective colleges.
Research Expenditures, Unaudited
FY17

- $69.5 MM
- 4.2 %
### Sponsored Awards and Research Expenditures, FY13-17

<table>
<thead>
<tr>
<th>FY</th>
<th>Awards</th>
<th>Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>48,003,542</td>
<td>70,689,000</td>
</tr>
<tr>
<td>2014</td>
<td>48,162,964</td>
<td>68,525,000</td>
</tr>
<tr>
<td>2015</td>
<td>58,680,019</td>
<td>69,607,000</td>
</tr>
<tr>
<td>2016</td>
<td>51,661,818</td>
<td>72,536,000</td>
</tr>
<tr>
<td>2017</td>
<td>59,714,383</td>
<td>69,465,000</td>
</tr>
</tbody>
</table>
## Intellectual Property, Unaudited FY17

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2016</th>
<th>+/- %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received&lt;sup&gt;2&lt;/sup&gt;</td>
<td>38</td>
<td>32</td>
<td>19 %</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>105</td>
<td>111</td>
<td>- 5 %</td>
</tr>
<tr>
<td>Patents Filed or Issued&lt;sup&gt;2&lt;/sup&gt;</td>
<td>17</td>
<td>17</td>
<td>0 %</td>
</tr>
<tr>
<td>License Agreements</td>
<td>18</td>
<td>20</td>
<td>- 10 %</td>
</tr>
<tr>
<td>Gross Royalties&lt;sup&gt;2&lt;/sup&gt;</td>
<td>326,169</td>
<td>301,120</td>
<td>8 %</td>
</tr>
</tbody>
</table>
Corporate Sponsorship, Unaudited
FY17

Sponsored Awards - Industry - COMBINED Fiscal Year 2017 4th Quarter Ended June 30, 2017
TOTAL: $15,930,364

- Consumer Products: 744,384
- Civil: 182,151
- Chemical: 708,046
- Business & Economics: 458,269
- Automotive: 7,396,022
- Defense & Space: 2,939,662
- Energy: 724,092
- Environmental: 157,329
- Health: 530,093
- Industrial Engineering: 204,332
- IT Services: 750,829
- Mining & Metals: 420,984
- Other: 244,388
- Technology: 469,783
Corporate Sponsorship FY16 and FY17

- **FY17**

- **FY16**
Student Affairs and Advancement Report

Board of Trustees Meeting
October 20, 2017
Fall Enrollment 1965-2017

Distance Learning
On Campus

Formal Session of the Board of Trustees - III. Committee Reports
Formal Session of the Board of Trustees - III. Committee Reports

Total Enrollment by Student Type

- International grad
- Non-Resident grad
- Resident grad
- International u-grad
- Non-Resident u-grad
- Resident u-grad
- % graduate of total

Graph showing enrollment trends from 2004 to 2017 for different student types.
Recent Rankings

- Top 15% of Universities nationwide - *Wall Street Journal*
- 25th best STEM School in the country – *Forbes*
- 6th in the nation for early career salaries - *Money Magazine*
- *US News & World Report* - 124/311 Best National Universities
Female Undergraduates in COE and CS

Fall 2005 Fall 2006 Fall 2007 Fall 2008 Fall 2009 Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015 Fall 2016 Fall 2017

Preliminary

Female % Female

Formal Session of the Board of Trustees - III. Committee Reports
Domestic Student Diversity
Formal Session of the Board of Trustees - III. Committee Reports

New Undergraduates

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,227</td>
<td>1,327</td>
<td>1,169</td>
<td>1,223</td>
<td>1,365</td>
<td>1,160</td>
<td>1,115</td>
<td>1,161</td>
<td>1,153</td>
<td>1,253</td>
<td>1,198</td>
<td>1,277</td>
<td>1,381</td>
<td>1,323</td>
</tr>
</tbody>
</table>
New UG Student Domestic Diversity

American Indian
African American Non-Hispanic
Asian American
Pacific Islander
Hispanic American
Multiracial
Domestic underrepresented percentage
2012-2016 Total UG Enrollment Change
Emeka Esemonu

Co-op Project Engineer
Marathon Petroleum
Detroit, Michigan

Found the job at MTU Career Fair

Congratulations, Emeka!
Three Year Default Rates by MI Public Institution

- CMU
- EMU
- FSU
- GVSU
- LSSU
- MSU
- MTU
- NMU
- OU
- SVSU
- UMAA
- UMD
- UMF
- WMU
- WSU

Months: fy11, fy12, fy13, fy14
FY18 Funds Raised by Category
As of September 30, 2017

Total Raised: $6.34MM
Total Goal: $36MM
Formal Session of the Board of Trustees - III. Committee Reports
Athletics and Recreation
Financial Report
Board of Trustees Meeting
October 20, 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 June 30, 2017
(unaudited 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>$38,519</td>
<td>$6,450</td>
<td>$44,969</td>
</tr>
<tr>
<td>Noncurrent Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>238,861</td>
<td>-</td>
<td>238,861</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>66,010</td>
<td>137,292</td>
<td>203,302</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$343,390</td>
<td>$143,742</td>
<td>$487,132</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>$5,385</td>
<td>-</td>
<td>$5,385</td>
</tr>
<tr>
<td><strong>Total Deferred Outflows of Resources</strong></td>
<td>$5,385</td>
<td>-</td>
<td>$5,385</td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$32,192</td>
<td>$881</td>
<td>$33,073</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>160,371</td>
<td>5,712</td>
<td>166,083</td>
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<tr>
<td><strong>Total Liabilities</strong></td>
<td>$192,563</td>
<td>$6,593</td>
<td>$199,156</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>$398</td>
<td>-</td>
<td>$398</td>
</tr>
<tr>
<td><strong>Total Deferred Inflows of Resources</strong></td>
<td>$398</td>
<td>-</td>
<td>$398</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>$150,000</td>
<td>-</td>
<td>$150,000</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>5,814</td>
<td>137,149</td>
<td>142,963</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td>$155,814</td>
<td>$137,149</td>
<td>$292,963</td>
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</tbody>
</table>
### Income Statement

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

**As of June 30, 2017**

(unaudited in thousands)

<table>
<thead>
<tr>
<th>Operating Revenues</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Tuition and fees</td>
<td>$ 95,870</td>
</tr>
<tr>
<td>Grants and contracts</td>
<td>43,394</td>
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<tr>
<td>Educational Activities</td>
<td>4,977</td>
</tr>
<tr>
<td>Department Activities</td>
<td>9,923</td>
</tr>
<tr>
<td>Student Residence fees</td>
<td>19,531</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td><strong>$ 173,695</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating Expenses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Wages</td>
<td>$ 126,521</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>46,747</td>
</tr>
<tr>
<td>Student Financial Support</td>
<td>51,807</td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>31,089</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td><strong>$ 256,164</strong></td>
</tr>
</tbody>
</table>

| Non Operating Revenues                           | $ 75,469 |

| Other Revenues                                   | $ 5,029 |

| Change in Net Position                           | **$ (1,971)** |

| Net Position, Beginning                          | **$ 294,934** |

| Net Position, End                                | **$ 292,963** |
## FY 2017 Current Funds
Projected vs Actual Revenues, Expenses & Change in Net Assets
(unaudited in thousands)

<table>
<thead>
<tr>
<th></th>
<th>Original * Projection</th>
<th>June Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$ 293,483</td>
<td>$ 289,766</td>
</tr>
<tr>
<td>Expenses</td>
<td>$(292,490)</td>
<td>$(295,762)</td>
</tr>
<tr>
<td>Change in Net Assets, with Pension Expense</td>
<td>$ 993</td>
<td>$(5,996)</td>
</tr>
<tr>
<td>Pension Expense**</td>
<td>-</td>
<td>7,377</td>
</tr>
<tr>
<td>Change in Net Assets, excluding Pension Expense</td>
<td>$ 993</td>
<td>$ 1,381</td>
</tr>
</tbody>
</table>

* Original projection did not include estimates for investment income or pension expense.
** Pension expense is a non-cash expense in accordance with GASB 68.

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. Degrees in Course
C. Gifts
D. Resignations, Retirements and Off Payroll
E. 2018 Meeting Dates
IV-A. APPROVAL OF MINUTES

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal special session of August 3, 2017 as distributed to the Board.
IV-B. 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: September 15, 2017
Subject: Candidates for Degrees – Conferral Term 201705

The attached list of candidates for degrees, beginning with Rebecca Elise Forsberg and ending with Richard Lee Ward, 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.

Theresa K. Jacques
Registrar

TKJ: kph
Bachelor of Arts in English
Rebecca Elise Forsberg

Bachelor of Arts in Physics
Aric Michael Rhodes

Bachelor of Science in Anthropology
Jakob F Williams

Bachelor of Science in Biochemistry and Molecular Biology
Nicolas Phillip Ditta

Bachelor of Science in Biological Sciences
Isaak Nikolai Ridge

Bachelor of Science in Biomedical Engineering
Lindsey Marie Schenten

Bachelor of Science in Chemical Engineering
Zachary James Little

Bachelor of Science in Civil Engineering
Nathan Patrick Ciisch

Bachelor of Science in Computer Engineering
Avery Mitchell Kish Bailey

Bachelor of Science in Computer Network and System Administr
Christopher David Sengstack

Bachelor of Science in Computer Science
Chetan Kumar Chaurasiya

Bachelor of Science in Construction Management
Peter Dale Gilcrest Prins

Bachelor of Science in Electrical Engineering
Britton Thomas Borlace

Bachelor of Science in Electrical Engineering Technology
Mengyao Cai

Bachelor of Science in Engineering
Kevin Daly Renwick

Bachelor of Science in Engineering Management
Richard Lee Fowler

Bachelor of Science in Environmental Engineering
Danielle Caroline Vilona

Bachelor of Science in Engineering
Marcia Ann Drabek

Bachelor of Science in Environmental Engineering
Brittany Rose Frost

Bachelor of Science in Exercise Science
Alexander Franc Schultz

Bachelor of Science in Environmental Engineering Management
Andrea Margaret Belanger

Bachelor of Science in Exercise Science
Kelsey Marie Bird

Bachelor of Science in Finance
Terrianna Lynn Bradley

Bachelor of Science in Forestry
Ronnie Mack Lane

Bachelor of Science in Geological Engineering
Kelsey Jo Justin

Bachelor of Science in Geological Engineering
Neil Alexander Wilczynski

Bachelor of Science in Forestry
Morgan Rose Gast

Bachelor of Science in Geological Engineering
John Thomas Donazzolo

Bachelor of Science in Forestry
Erica Anderson

Bachelor of Science in Geological Engineering
Nicole Ashley Bird

Bachelor of Science in Forestry
Carolyn Marie Lucca - Magna Cum Laude

Bachelor of Science in Geological Engineering
Ruth Marie Oppliger

Michigan Technological University
Degrees Awarded for Conferral Term 201705

Bachelor of Arts in English Rebecca Elise Forsberg
Cutter Thomas Hurst - Cum Laude

Bachelor of Arts in Physics Aric Michael Rhodes

Bachelor of Science in Anthropology Jakob F Williams

Bachelor of Science in Biochemistry and Molecular Biology Nicolas Phillip Ditta

Bachelor of Science in Biological Sciences Isaak Nikolai Ridge

Bachelor of Science in Biomedical Engineering Lindsey Marie Schenten

Bachelor of Science in Chemical Engineering Zachary James Little

Bachelor of Science in Civil Engineering Nathan Patrick Ciisch

Bachelor of Science in Computer Engineering Avery Mitchell Kish Bailey

Bachelor of Science in Computer Network and System Administr Christopher David Sengstack

Bachelor of Science in Computer Science Chetan Kumar Chaurasiya

Bachelor of Science in Construction Management Peter Dale Gilcrest Prins

Bachelor of Science in Electrical Engineering Britton Thomas Borlace

Bachelor of Science in Electrical Engineering Technology Mengyao Cai

Bachelor of Science in Engineering Kevin Daly Renwick

Bachelor of Science in Engineering Management Richard Lee Fowler

Bachelor of Science in Environmental Engineering Danielle Caroline Vilona

Bachelor of Science in Engineering Marcia Ann Drabek

Bachelor of Science in Environmental Engineering Management Brittany Rose Frost

Bachelor of Science in Exercise Science Alexander Franc Schultz

Bachelor of Science in Environmental Engineering Management Andrea Margaret Belanger

Bachelor of Science in Exercise Science Kelsey Marie Bird

Bachelor of Science in Finance Terrianna Lynn Bradley

Bachelor of Science in Forestry Ronnie Mack Lane

Bachelor of Science in Geological Engineering Kelsey Jo Justin

Bachelor of Science in Geological Engineering Neil Alexander Wilczynski

Bachelor of Science in Forestry Morgan Rose Gast

Bachelor of Science in Geological Engineering John Thomas Donazzolo

Bachelor of Science in Forestry Erica Anderson

Bachelor of Science in Geological Engineering Nicole Ashley Bird

Bachelor of Science in Forestry Carolyn Marie Lucca - Magna Cum Laude

Bachelor of Science in Geological Engineering Ruth Marie Oppliger
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Bachelor of Science in Management
Megan Armstrong

Bachelor of Science in Management Information Systems
Charles Richard Temple

Bachelor of Science in Materials Science and Engineering
Peter Johannes Hokemeir-Seim
Hao Qin

Bachelor of Science in Mathematics
Brent Andrew Baltus - Cum Laude
Steven Thomas Alvey

Bachelor of Science in Mechanical Engineering
Richard M Bennett
Cayman Elijah Sunshine Berg-Morales - Cum Laude
Marissa Marie Storm Cloud Flowers
Todd W Krieger
Jerad Arthur Marble
Jacob Allen Markiewicz
Justin David McPherson
Luke David Peters
Michael M Pfaff
Brenda Lee Sauer
Donald Richard Shaner
Jiaqi Tang
Elliot Steven Vickers
Kyle Tyler Hanson
Ryne Peter Hass
Matthew D Luebke
Hasan Arnab A Quazi

Bachelor of Science in Mechanical Engineering Technology
Audri Nicole Mills

Bachelor of Science in Medical Laboratory Science
Estefania Borns
Molly Elizabeth Wilder

Bachelor of Science in Operations and Systems Management
Mary Bernadette LeDoux

Bachelor of Science in Scientific and Technical Communicatio
Gabriel Cooper Revells
Ryan Tze-Min Drife
Kylee Jean Larson - Cum Laude

Bachelor of Science in Social Sciences
Fan Yang

Bachelor of Science in Software Engineering
Li Chen

Bachelor of Science in Sports and Fitness Management
Haiping Liu
Yiyou Gu

Doctor of Philosophy in Atmospheric Sciences
Yiping Mao

Doctor of Philosophy in Biochemistry and Molecular Biology
Zichen Qian

Doctor of Philosophy in Biological Sciences
Joseph A Halt

Doctor of Philosophy in Biomedical Engineering
Zhiciao Wang

Doctor of Philosophy in Chemical Engineering
Olumide Ayodeji Winjobi

Doctor of Philosophy in Chemistry
Sarah Elisabeth Hopson

Doctor of Philosophy in Civil Engineering
Chao Zhang

Doctor of Philosophy in Computer Engineering
Siranee Nuchitprasitchai

Doctor of Philosophy in Electrical Engineering
Hanlie Dellamsalehy

Doctor of Philosophy in Engineering - Computational Science
Solmaz Hajmohammadi
Zagros Shahooei

Doctor of Philosophy in Environmental Science
Chathura Jayath Gunasekara
<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Philosophy in Engineering - Environmental Engineer</td>
<td>Wei Wei</td>
</tr>
<tr>
<td>Doctor of Philosophy in Environmental and Energy Policy</td>
<td>Erin C Pischke</td>
</tr>
<tr>
<td>Doctor of Philosophy in Forest Molecular Genetics and Biotech</td>
<td>Sudhir Khodwekar</td>
</tr>
<tr>
<td>Doctor of Philosophy in Forest Science</td>
<td>Sara Alian</td>
</tr>
<tr>
<td>Doctor of Philosophy in Industrial Heritage and Archaeology</td>
<td>Nicholas William Bolton</td>
</tr>
<tr>
<td>Doctor of Philosophy in Materials Science and Engineering</td>
<td>Shawn T O'Neil</td>
</tr>
<tr>
<td>Doctor of Philosophy in Mechanical Engineering - Engineering</td>
<td>John Peter Baeten</td>
</tr>
<tr>
<td>Doctor of Philosophy in Rhetoric, Theory and Culture</td>
<td>Alex Poznak</td>
</tr>
<tr>
<td>Doctor of Philosophy in Mathematical Sciences</td>
<td>Bryan Joseph Freyberg</td>
</tr>
<tr>
<td>Master of Business Administr. in Business Administration</td>
<td>Mustafa Gezek</td>
</tr>
<tr>
<td>Master of Business Administr. in Business Administration</td>
<td>Mohammad Reza Amini</td>
</tr>
<tr>
<td>Master of Science in Accounting</td>
<td>Michael D Cook</td>
</tr>
<tr>
<td>Master of Science in Applied Ecology</td>
<td>Muraleekrishnan Menon Menon Muraleedharan Nair</td>
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<tr>
<td>Master of Science in Applied Science Education</td>
<td>Matthew S Radue</td>
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<tr>
<td>Master of Science in Biological Sciences</td>
<td>James Michael Sevik</td>
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<tr>
<td>Master of Science in Biomedical Engineering</td>
<td>Michael Zhiguo Shen</td>
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<tr>
<td>Master of Science in Chemical Engineering</td>
<td>Yunana Ahmed</td>
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<tr>
<td>Master of Science in Civil Engineering</td>
<td>Kirsti Marie Arko</td>
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<td>Andrew Alexander Gutierrez</td>
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<tr>
<td>Master of Science in Electrical Engineering</td>
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<tr>
<td>Master of Science in Electrical Engineering</td>
<td>Abbey Jillian Senczyszyn</td>
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<td>Yuning Sun</td>
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<td>Maryann Wilcox</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Congping Zhu</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Sabari Manohar Palaniappan</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>James Schmidt</td>
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<td>Arissara Suthijindawong</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Brady James Tervo</td>
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<td>Kelsey Richesin Carter</td>
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<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Eric John Engel</td>
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<td>Heather Kelly Murphy</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Tahiyat Abdulaziz A Alothaim</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Erin Katharine Eberhard</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Gwendolyn Jacobson</td>
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<td>Master of Science in Mechanical Engineering - Engineering</td>
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<td>Surbhi Thakur</td>
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<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Ravi Teja Reddy Tippireddy</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Mugdha Prashant Degaonkar</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Jialin Lei</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Avinash Subramaniam</td>
</tr>
<tr>
<td>Master of Science in Mechanical Engineering - Engineering</td>
<td>Michael Joseph Briseno</td>
</tr>
</tbody>
</table>
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Muhittin Buyuknalbant
Lohita Rani Chamarti
He Huang
Aniket Shirish Parandkar
Asthia Tiwari
Dhwani Kaushik Trivedi
Kushan Vasant

Venkata Pavan Kumar Reddy Kallam
Jui Anirudha Patankar

Master of Science in Environmental Engineering

Lindsey Marie Watch
Miranda N Smith
Monica Harmon
Aric W Devens
Matthew James Widen
Monica Castro-Escobar
Jonathon Sanders
Matthew Scott Laird
Jacob Paul Tresnak
Zhongming An
Alexis Lynn Herrewig
Ta-Wei Chiu
Mitchell Dean Tahtinen
FNU Aamir Ibrahim
Mihir Ramchandra Agshikar
Guilherme Aramizo Ribeiro
Shivit Bansal
Biswajit Barik
Nicholas S Brajak
Leslie Castelino
Venkata Rajesh Chundru
Varun Govind Deshpande
Trinoy Dutta
Jayesh Dwivedi
Sandesh Suresh Gandhi
Satyavenkata Naga Sai Sharath Gorthy
Neelesh Gupta
Vinay Hasija
Robert A Hayes
Vishal Shashikant Ingavale
Sushrut Vasant Joshi
Gana Venkata Chiranjeevi Kasina
Lauren Knop
Siddharth Shripad Kshirsagar
Dhaval Bhikhubhai Lodaya
Sanil Mhatre
Nikhil Reddy Pasula
Miles Benjamin Penhale
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Apoorv Prem
Omkar Dilip Rane
Akshat Abhay Raut
Varun Purandar Salian
Aditya Ashok Sharma
Hemant Kumar Sharma
Sagar Sharma
Dylan Thomas Truskolaski
Saeedeh Ziaeefard
Michael James Gerhardt
Richard Lee Ward

Master of Science in Physics
Master of Science in Rhetoric, Theory and Culture

Michigan Technological University
Student Affairs and Advancement Information Systems
9/15/2017
IV-C. 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, 2017 through August 31, 2017  
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY18 YTD Total</th>
<th>FY17 YTD Total</th>
<th>FY17 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>1,524,910</td>
<td>221,418</td>
<td>2,555,315</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated)</td>
<td>40,819</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>207,777</td>
<td>198,638</td>
<td>1,779,433</td>
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<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>1,448,000</td>
<td>250,000</td>
<td>33,732,905</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>197,531</td>
<td>168,543</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>1,168,762</td>
<td>460,485</td>
<td>3,025,560</td>
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<td>Corporations</td>
<td>357,325</td>
<td>296,043</td>
<td>2,942,112</td>
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<tr>
<td>Foundations &amp; Other Organizations</td>
<td>9,951</td>
<td>44,028</td>
<td>288,574</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>43,243</td>
<td>4,780</td>
<td>147,802</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td><strong>4,998,317</strong></td>
<td><strong>1,643,935</strong></td>
<td><strong>45,963,321</strong></td>
</tr>
</tbody>
</table>

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

09/19/2017 15:09
IV-D. 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
(July 8, 2017 – September 30, 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>Bessonen, Sherri</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>09/22/1995</td>
<td>07/28/2017</td>
</tr>
<tr>
<td>Cattelino, Peter</td>
<td>Staff</td>
<td>Innovation &amp; Industry Engagement</td>
<td>Associate Director, Strategic Partnerships for Industry Relations</td>
<td>02/12/1995</td>
<td>07/27/2017</td>
</tr>
<tr>
<td>Condratovich, James</td>
<td>Staff</td>
<td>Keweenaw Research Center</td>
<td>Custodian</td>
<td>05/03/1999</td>
<td>09/29/2017</td>
</tr>
<tr>
<td>Maatta, Robert</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Professor of Practice</td>
<td>08/21/2017</td>
<td>08/01/2017</td>
</tr>
<tr>
<td>Sickler, Beth</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Departmental Coordinator</td>
<td>07/16/1984</td>
<td>08/18/2017</td>
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</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>Ahn, Yushin</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Assistant Professor</td>
<td>08/07/2011</td>
<td>08/11/2017</td>
</tr>
<tr>
<td>Anderson, Sherry</td>
<td>Staff</td>
<td>Physics</td>
<td>Office Assistant 5</td>
<td>01/18/2010</td>
<td>07/14/2017</td>
</tr>
<tr>
<td>Bandi, Chandan</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Front End Developer</td>
<td>06/19/2017</td>
<td>07/31/2017</td>
</tr>
<tr>
<td>Bickford, Tonia</td>
<td>Staff</td>
<td>Student Affairs Info Systems</td>
<td>Systems &amp; Data Analyst</td>
<td>10/22/2014</td>
<td>06/30/2017</td>
</tr>
<tr>
<td>Bump, Joseph</td>
<td>Faculty</td>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>Associate Professor</td>
<td>08/09/2009</td>
<td>08/19/2017</td>
</tr>
<tr>
<td>Chosa, Peter</td>
<td>Staff</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Engineering Academic Advisor I</td>
<td>07/11/2016</td>
<td>09/07/2017</td>
</tr>
<tr>
<td>Ekolle, Elvis</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Database Administrator</td>
<td>04/10/2017</td>
<td>08/07/2017</td>
</tr>
<tr>
<td>Gershenson, John</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Professor</td>
<td>08/01/2000</td>
<td>08/14/2017</td>
</tr>
<tr>
<td>Gutierrez, Andrew</td>
<td>Staff</td>
<td>Financial Aid Administration</td>
<td>Financial Aid Manager</td>
<td>06/09/2014</td>
<td>09/08/2017</td>
</tr>
<tr>
<td>Hanson, Margaret</td>
<td>Staff</td>
<td>AE Seaman Mineral Museum</td>
<td>Assistant Director, Museum</td>
<td>04/10/2017</td>
<td>08/28/2017</td>
</tr>
<tr>
<td>Hu, Shiyan</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>12/30/2007</td>
<td>09/03/2017</td>
</tr>
<tr>
<td>Ieuter, Erik</td>
<td>Coach</td>
<td>General Athletics</td>
<td>Assistant Coach Football</td>
<td>03/13/2006</td>
<td>07/26/2017</td>
</tr>
<tr>
<td>Isaacson, Jillian</td>
<td>Staff</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Office Assistant 5</td>
<td>01/04/2010</td>
<td>07/05/2017</td>
</tr>
<tr>
<td>Juntunen, Arjay</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Groundsperson</td>
<td>12/05/2016</td>
<td>09/09/2017</td>
</tr>
<tr>
<td>Kasza, Maria</td>
<td>Coach</td>
<td>General Athletics</td>
<td>Assistant Coach</td>
<td>08/24/2017</td>
<td>08/17/2017</td>
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<tr>
<td>Kinnunen, Curtis</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>01/02/2017</td>
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<tr>
<td>Laplander, Adam</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>Administrative Aide 8</td>
<td>06/22/2015</td>
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<tr>
<td>Littlefield, Jeremy</td>
<td>Staff</td>
<td>Visual &amp; Performing Arts</td>
<td>Scene Shop Supervisor</td>
<td>08/17/2015</td>
<td>07/01/2017</td>
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<tr>
<td>Lu, Jiang</td>
<td>Staff</td>
<td>Physics</td>
<td>Assistant Research Scientist</td>
<td>01/19/2012</td>
<td>06/30/2017</td>
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<tr>
<td>McCarty, Jessica</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Research Engineer/Scientist II</td>
<td>08/13/2017</td>
<td>08/12/2017</td>
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<td>Name</td>
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<td>Department</td>
<td>Start Date</td>
<td>End Date</td>
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<td>Merryman, Kam</td>
<td>Staff</td>
<td>IT Operations</td>
<td>05/03/2010</td>
<td>09/25/2017</td>
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<tr>
<td>Miller, Zoe</td>
<td>Staff</td>
<td>Institutional Analysis</td>
<td>02/01/2016</td>
<td>08/11/2017</td>
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<tr>
<td>Nelson, Lisa</td>
<td>Staff</td>
<td>Academic &amp; Community Conduct</td>
<td>01/20/2015</td>
<td>07/21/2017</td>
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<tr>
<td>Purchase, Katherine</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>08/01/2016</td>
<td>08/11/2017</td>
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<tr>
<td>Rubino, Nicole</td>
<td>Staff</td>
<td>Graduate School</td>
<td>01/05/2015</td>
<td>09/15/2017</td>
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<td>Tarshizi, Ebrahim Karimi</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>12/01/2014</td>
<td>08/17/2017</td>
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<tr>
<td>Wang, Xinli</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>08/17/2008</td>
<td>08/06/2017</td>
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<tr>
<td>Yofe, Kristina</td>
<td>Staff</td>
<td>Wadsworth Hall Food Service</td>
<td>08/01/2016</td>
<td>09/05/2017</td>
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<tr>
<td>Zhou, Wen</td>
<td>Faculty</td>
<td>Chemical Engineering</td>
<td>08/08/2010</td>
<td>08/12/2017</td>
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<tr>
<td>Zink, John</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>01/18/2016</td>
<td>03/26/2017</td>
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</tr>
</tbody>
</table>
IV-E. 2018 MEETING DATES

The following meeting dates are presented for approval.

Friday, February 23, 2018

Friday, May 4, 2018 (Commencement – Saturday, May 5)

Thursday, August 2, 2018 (Alumni Reunion)

Friday, September 28, 2018 (Homecoming)

Friday, December 14, 2018 (Commencement – Sat., December 16)

RECOMMENDATION: That the Board of Trustees approves the meeting dates as presented.
V. ACTION/DISCUSSION ITEMS

A. Appointment, Involving Tenure/Promotion
B. Honorary Degree
C. Five-Year Capital Outlay Plan and FY2019 Capital Project Request
D. Revision to Board of Trustees Policy 15.1. University Research and Sponsored Program Cost Principles
E. Approval for Revisions to University Senate Constitution
V-A. APPOINTMENT, INVOLVING TENURE/PROMOTION

The policy for granting tenure and/or promotion to faculty members requires that the process begin with deliberations in the candidate's department and proceed through the respective colleges and schools. Once approved, it is presented to the Provost, and if successful, to the President of the University. Dr. Jinshan Tang has met all the requirements and is being recommended for tenure and/or promotion.

RECOMMENDATION: That the Board of Trustees approves the appointment of Dr. Jinshan Tang to Full Professor with Tenure.
TO: Glenn Mroz, President  
FROM: Jacqueline E. Huntoon, Provost & Vice President for Academic Affairs  
DATE: September 1, 2017  
SUBJECT: Appointment for Promotion Recommendations  

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following faculty member has been recommended for promotion with tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their October 20, 2017 meeting. If approved, the promotion will be effective October 22, 2017.

Promotion from Associate Professor with Tenure to Professor with Tenure

Jinshan Tang  
School of Technology

APPROVED:  
[Signature]

Glenn D. Mroz, President  
Date  9-8-17
TENURE AND/OR PROMOTION INFORMATION SHEET FOR BOARD OF TRUSTEES

INFORMATION SHEET FOR BOARD OF TRUSTEES
Jinshan Tang
Michigan Technological University

Jinshan Tang, who is currently a tenured associate professor of Computer Network and System Administration and Medical Informatics in the School of Technology, is being considered for promotion to Full Professor.

Academic Degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Year</th>
<th>Institution, Location</th>
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<tbody>
<tr>
<td>Ph.D.</td>
<td>1998</td>
<td>Beijing University of Posts and Telecommunications, Beijing, China</td>
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<tr>
<td>M.S.</td>
<td>1995</td>
<td>Heilongjiang University, Harbin, China</td>
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<tr>
<td>B.S.</td>
<td>1992</td>
<td>Xiangtan Normal University, Xiangtan, China</td>
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Professional Record:

<table>
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<th>Year(s)</th>
<th>Position/Institution, Location</th>
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<tbody>
<tr>
<td>2015–present</td>
<td>Associate Professor (with tenure), School of Technology, Michigan Technological University, Houghton, MI</td>
</tr>
<tr>
<td>2011–2015</td>
<td>Associate Professor (without tenure), School of Technology, Michigan Technological University, Houghton, MI</td>
</tr>
<tr>
<td>2006–2011</td>
<td>Assistant Professor, Alcorn State University, Lorman, MS</td>
</tr>
<tr>
<td>2005–2006</td>
<td>Senior Engineer, Intel, Hudson, MA</td>
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<tr>
<td>2004–2005</td>
<td>Research Fellow, National Cancer Institute, National Health Institute, Bethesda, MD</td>
</tr>
<tr>
<td>2001-2004</td>
<td>Research Scientist/Research Associate, University of Virginia, VA</td>
</tr>
<tr>
<td>2000-2001</td>
<td>Research Associate, Harvard Medical School, MA</td>
</tr>
<tr>
<td>1998-2000</td>
<td>Invited Researcher, ATR Media Integration and Communications Research Laboratories, Kyoto, Japan</td>
</tr>
</tbody>
</table>

Summary of Accomplishments:

- **Teaching**
  Based on student teaching evaluations of courses taught by Dr. Jinshan Tang, his average scores have been consistently higher than the university averages in similar courses. In the 2014 spring semester, Dr. Tang’s average student evaluation scores were in the top 10% of all instructors across the university. He has developed five new graduate level courses (Medical Image Analysis, Advanced Topics on Network Security, App Integration/Interoperability, Mobile Programming and Applications, and Introduction to Hadoop) and redesigned two undergraduate courses (Advanced Scripting Programming and Web/App Server). Dr. Tang has taught twenty-one courses, which cover both undergraduate and graduate courses. Dr. Tang is also very active in advising graduate students, and has been the principal advisor for three PhD and seven MS students at Michigan Tech during the past 5 years.

- **Research/Scholarly Activity**
  Dr. Tang has published two edited books, two book chapters, and 93 journal and conference papers. For most of these publications, he is the first author or corresponding author. The majority of these papers are published in highly recognized journals (such as IEEE Transactions/Journals) and conferences. He is also active in seeking external funding for his research. During his career, he has submitted grant proposals totaling approximately 4 million dollars and has obtained more than 1.32 million dollars to
support his research. Dr. Tang’s research is highly recognized in the image analysis and image processing fields. He and his student co-authored a paper that won the best paper prize at the Mobile Multimedia/Image Processing, Security, and Applications conference in 2015. He has two highly cited papers in Google Scholar, one with 364 citations and the other with 304. His paper “Computer-aided detection and diagnosis of breast cancer with mammography: recent advances” is ranked as a highly cited paper (1%) by ISI Web of Knowledge.

Dr. Tang’s research is very well aligned with Michigan Tech’s strategic focus in the healthcare area. He is an active contributor to medical image analysis and research at Michigan Tech, and is helping to build an international reputation for the university in this area. Dr. Tang’s research is making positive contributions to the data science, medical informatics, and computer network and system administration programs, and will continue to have an impact.

• Service

Dr. Tang is currently the Co-chair of the Technical Committee of Information Assurance & Intelligent Multimedia-Mobile, Communications of the IEEE Systems, Man and Cybernetics Society. Dr. Tang is also active in his service as an editor, having served as the guest editor of several top journals; and as a reviewer, having reviewed 46 journal and 130 conference papers in the past 5 years. He is also active in organizing conferences and served as a program co-chair, session chair, and committee member for over 60 international conferences. At Michigan Tech, Dr. Tang has served on several faculty search committees, the School of Technology Tenure Promotion and Reappointment Committee, the Graduate Dean’s Advisory Panel, the University Conflict of Interest Committee, University Senate Elections Committee, and University Senate Information Technology Committee.

• Recent and Significant Publications/Exhibitions/Performances/Etc.

1) Jinshan Tang, Sos Agaign, Jindong Tan (eds), Electronic Imaging Applications in Mobile Healthcare, SPIE Press, Feb. 2016. (Book)
V-B. HONORARY DEGREE

The Administration is recommending that Mr. James J. Parm and Mr. Robert G. White be awarded Honorary Doctorate of Philosophy degrees.

Mr. James J. Parm was appointed President and Chief Executive Officer of Stratos in 2003 and held that position until his retirement in 2013. He oversaw the strategic direction and global operations of this $500+M global satellite service company. Prior to his position as CEO, he served for three years as Stratos’ Chief Operating Officer. Before joining Stratos, Mr. Parm was President and Chief Executive Officer of Shell Offshore Services Company where he led strategy development and execution for the telecom startup, which provided remote communications services to the energy industry.

Mr. Parm has a Bachelor of Science degree in Electrical Engineering from Michigan Tech. He is a member of the Electrical and Computer Engineering Academy; a member of the President’s Advancement Council and a former member of the Michigan Tech Fund Board of Trustees.

Mr. Parm will be the Fall Commencement speaker.

RECOMMENDATION: That the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. James J. Parm.

Mr. Robert G. White is a long-time Trustee of the John Edgar McAllister Foundation. Mr. White has been instrumental in continuing Mr. McAllister’s wishes of providing scholarships for Canadian citizens who wish to enroll in engineering and/or science at the undergraduate or graduate level at Michigan Tech. He was also instrumental in directing the McAllister funds to assist the University in building a Welcome Center that houses the University Admissions Office. Mr. White held the position of CFO at the University of Toronto, retiring in 2001; and served on the Board of the Niagara District Airport.

RECOMMENDATION: That the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. Robert G. White.
TO: Glenn D. Mroz  
President

FROM: David Hand, Chair  
Honors and Awards Committee

DATE: September 11, 2017

SUBJECT: Recommendation

The Honors and Awards Committee is submitting the following recommendation for your approval:

James Parm, nominated by the President's Office, to receive an Honorary Doctorate of Philosophy degree by a vote of 4 yes and 2 non-responses. Majority vote approval.

Please indicate your approval or disapproval below.

Approved:

[Signature]

Date: 9/11/17

P.S. Glenn D. Mroz  
President
TO: Glenn D. Mroz  
   President

FROM: David Hand, Chair  
       Honors and Awards Committee

DATE: September 28, 2017

SUBJECT: Recommendation

The Honors and Awards Committee is submitting the following recommendation for your approval:

**Robert G. White**, nominated by the President’s Office, to receive an Honorary Doctorate of Philosophy degree by unanimous vote.

Please indicate your approval or disapproval below.

Approved:

[Signature]
Dr. Glenn D. Mroz  
President

[Signature]
Date
V-C. FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND FY2019 CAPITAL PROJECT REQUEST

The Five-Year State Capital Outlay Plan and FY2019 Capital Project Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval, and is included herein.

RECOMMENDATION: That the Board of Trustees approves the Five-Year State Capital Outlay Plan and FY2019 Capital Project Request to be submitted to the State of Michigan.
Five-Year State Capital Outlay Plan and FY 2019 Capital Project Request

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000's)</th>
<th>State Funds (000's)</th>
<th>Est. Const. Univ. Funds (000's)</th>
<th>Start/End Dates (Years)</th>
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<tr>
<td>1</td>
<td>H-STEM Engineering and Health Technologies Complex – Phase I</td>
<td>68,000</td>
<td>47,000</td>
<td>$44,700</td>
<td>$29,700</td>
<td>$15,000</td>
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<td>2</td>
<td>Integrated Student Maker Spaces</td>
<td>30,000</td>
<td>50,000</td>
<td>$27,000</td>
<td>$20,250</td>
<td>$6,750</td>
<td>2019/2022</td>
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<td>3</td>
<td>H-STEM Engineering and Health Technologies Complex – Phase II</td>
<td>100,000</td>
<td>48,000</td>
<td>$74,200</td>
<td>$55,650</td>
<td>$18,550</td>
<td>2020/2023</td>
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</table>

Capital Projects Description

1. The **H-STEM Engineering and Health Technologies Complex (Phase I)**, hereafter referred to as simply the H-STEM Complex, will support Michigan Tech’s integrated educational programs that apply engineering and science to improve the human condition. Michigan Tech’s STEM-focused niche allows it to contribute to development of human-centered technologies (e.g., therapeutic devices, instruments, sensors, and preventative strategies) through research, development, and education for its students. The planned H-STEM Complex will include shared and flexible laboratory spaces, co-located with renovated classrooms and learning spaces within an existing building (Chemical Sciences and Engineering), that will meet industry standards for safe operation and the training of students. The H-STEM Complex will permit teams of researchers and students from Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Electrical and Computer Engineering, Materials Science and Engineering, Biology, Chemistry, Cognitive and Learning Sciences, Computer Science, and Kinesiology and Integrative Physiology to work together in collaborative space with shared equipment. The estimated investment of $44,700,000 will allow Michigan Tech’s engineers and scientists to continue to increase economic prosperity through development of technologies and preparation of the future technological workforce.

2. The **Integrated Student Maker Spaces** project will develop “maker spaces” to support student innovation across all disciplines at Michigan Tech. Maker spaces are places that engage students (and faculty and staff) in collaborative design and prototyping activities. Michigan Tech’s vision is to provide a centralized hub of design and innovation that will inspire and support students’ creativity and experiential learning. The total project cost is estimated at $27,000,000 and this investment will allow for construction of a new central facility, as well as expansion, renovation and modernization of existing space.

3. The **H-STEM Engineering and Health Technologies Complex (Phase II)** will include a newly constructed facility co-located adjacent to existing spaces that will be renovated as part of the project. Phase II of this project will further enable Michigan Tech’s growing research and education programs in advanced manufacturing, particularly as related to human-centered engineering and medical devices. Phase II is natural follow-on to Phase I because many innovation and engineering challenges related to modern manufacturing involve medical manufacturing, including 3D printing of blended metal/plastics/ceramics for multi-functionality, rapid design through multiple testing cycles, and the embedding of mechatronic systems. Additive and other advanced manufacturing processes are poised to dramatically change how products are made and changes will cascade upstream to impact product designs. The H-STEM Complex will include a visible shared space where teams of students and faculty will together engage in creative solutions to advance manufacturing across Michigan industries. Phase II will strategically position Michigan Tech to contribute to the growth of hi-tech innovation and manufacturing throughout the state. The total investment required for this project is estimated at $74,200,000.
V-D. REVISION TO BOARD POLICY 15.1. UNIVERSITY RESEARCH AND SPONSORED PROGRAM COST PRINCIPLES

The proposed changes are shown in the highlighted paragraphs of the attached document. The OMB Circular A-21 no longer applies and with this edit, it will make it generic in an effort to accommodate future regulation changes.

RECOMMENDATION: That the Board of Trustees amends Board Policy 15.1. University Research and Sponsored Program Cost Principles as presented.
In sponsored programs, the University will comply with all applicable regulations, including 2 CFR part 220 (OMB Circular A-21, Cost Principles for Education Institutions) when determining costs applicable to grants, contracts, and other sponsored agreements including but not limited to for research, instructional programs and public service.

The amended policy shall read as follows:

15.1. UNIVERSITY RESEARCH AND SPONSORED PROGRAM COST PRINCIPLES

In sponsored programs, the University will comply with all applicable regulations when determining costs applicable to grants, contracts, and other sponsored agreements including but not limited to for research, instructional programs and public service.

The University shall determine a Facilities and Administrative cost rate based on a cost study complying with the above requirements. Facilities and Administrative costs shall be charged to all sponsored agreements for research, instructional programs, public service, and other sponsored programs at the determined rate.

Exceptions may be made at the discretion of the Vice President for Research where established Facilities & Administrative rates have been fixed by congressional action, by acceptable agency regulations or when the University might wish to participate in a project of especial institutional interest.

This policy supersedes Board of Trustees policy 15.1. University Research and Sponsored Programs Cost Principles dated July 15, 2010.
V-E. APPROVAL FOR REVISIONS TO UNIVERSITY SENATE CONSTITUTION

The University Senate is requesting Board of Trustee approval of proposed changes to the Senate Constitution.

A summary of the proposed amendments to the University Senate Constitution are as follows:

A. Faculty Constituents – Clarifies academic faculty rankings.
B. Voting on Various Matters – Clarifies that only senators shall vote on matters before the Senate, or their Alternates may vote if the Senator is not present.
C. Membership – Eliminating redundancy of voting members as also found in Voting on Various Matters.
D. Commencement of Term of Office – The term of office for new senators, alternates and officers shall begin on July 1.

At the April 5, 2017 meeting of the University Senate, Proposal 19-17: “Revisions to the Senate Constitution” was approved. On April 12, 2017 a referendum was sent to 1,078 constituents regarding this proposal, resulting in 445 responses with 311 approve, 26 reject and 108 abstain. On July 14, 2017, the Administration responded with recommended editorial changes, which have been applied.

RECOMMENDATION: That the Board of Trustees approve the Revisions to the University Senate Constitution as presented. By its approval of this amendment by the Senate of its Constitution, the Board of Trustees relinquishes none of its constitutional or statutory authority nor does it adopt the amendment or the Constitution as Board of Trustees or University Policy.
Constitution and Bylaws of the University Senate of Michigan Technological University

Constitution of the University Senate of Michigan Technological University

Ratified by the Senate constituency on April 4, 2012
Approved by the Board of Control on April 27, 2012
Most recently amended on December 19, 2014
Most recent revision: September 14, 2015 – March 1, 2017
(Board of Control changed their name to Board of Trustees)
Editorial Changes from Administration on July 14, 2017

Article I — Name

The name of this organization shall be The University Senate of Michigan Technological University.

Article II — Constituents

A. The University Senate’s constituency is the University’s academic and research faculty and professional staff, including staff employed at independent research units. These groups meet and operate as a unit under a single Constitution and Bylaws, with a single set of University Senate officers and committees. Voting on certain issues will be confined to one of these groups, as defined in Article III below.

B. Individuals:

1. University Senate constituents are University professional staff and faculty who are employed full time for a minimum of 9 months per year, unless otherwise excluded because of major administrative functions (see paragraph 4 below). Full time is defined as a minimum of 30 hours per week.

2. Faculty Constituents:

   a. Academic faculty shall be constituents of the University Senate, unless otherwise excluded. The academic faculty are individuals holding a rank of instructor, lecturer, senior lecturer, principal lecturer, professor of practice, assistant professor, associate professor or professor for a minimum of nine months full-time.

   b. Research faculty shall be constituents of the University Senate, unless otherwise excluded, and will be represented by the Faculty Senator elected from the department in which they are appointed. The research faculty are individuals holding a rank of research assistant professor, research associate professor or research professor for a minimum of nine months full-time.
c. Department chairs, associate deans, and assistant deans, despite their additional status as academic faculty members, shall not serve as senators or alternates. They are considered constituents of the Senate.

3. Professional Staff Constituents

a. Professional staff including members of independent research units, shall be constituents of the University Senate, unless otherwise excluded because of major administrative functions as defined in the Bylaws (independent research units are not administered by one or more academic departments).

b. The Bylaws shall contain procedures for identifying the University professional staff that form the constituency of the professional staff membership and for resolving problems of constituency of individuals not clearly specified in this Article.

4. The University President, Provost, Vice Provosts, Vice Presidents, Chief Financial Officer, and all deans and equivalent directors, shall not be constituents of the Senate.

C. Representation Units

1. Each constituent of the Senate shall be a member of one representation unit. A senator elected by members of each unit shall represent each unit. The units and their included constituents are:

a. Academic Departments. Academic and research faculty holding appointments in an academic department or school shall be the only faculty constituent members of that department or school.

b. Research Units and Professional Staff:

i. The Senate’s Professional Staff Policy Committee will define the composition of the professional staff and independent research representation units.

ii. There shall be no more than 12 professional staff representation units, including independent research units. One of the units shall be the Library. The other eleven shall be composed as defined by the Bylaws. The groupings of the professional staff units are only for Senate representation. The reporting structures of constituents within any one unit may differ.

iii. All Senate constituents employed in an independent research unit shall be constituent members of that unit. A research unit may be included as part of another constituent unit.

iv. Senate constituents as defined above who are not constituent members of an academic department or research unit shall be members of a professional staff representation unit

2. In cases where a constituent is eligible to belong to more than one unit, that person will permanently select one unit and inform the Senate Secretary of that selection.

3. The representation units shall be listed in the Bylaws. The Bylaws shall contain procedures
for reviewing and updating the list as recommended by the Professional Staff Policy Committee.

Article III — Functions

A. The Senate is the representative body for its constituents and speaks on their behalf on matters under the Senate’s jurisdiction. The Senate shall establish, review, and recommend policy and procedures on matters under its jurisdiction. The Senate also is the principal forum for discussion of any matters of interest to the university community.

B. The Senate shall have the responsibility and the authority to review and establish policy in some matters, and to review and make recommendations in other matters. The University President, the Board of Trustees, or their designated representatives may stipulate additional areas in which the Senate shall have responsibility and authority.

C. By its approval of this constitution, the Board of Trustees relinquishes none of its constitutional or statutory authority.

D. Section F of this article lists matters in which the Senate has the responsibility and the authority to review and establish policy. Normally, the Board of Trustees will approve policy in these areas only after it receives policy proposals approved by the Senate.

E. For matters in which the Senate has the responsibility and the authority to review and establish policy, proposals shall be submitted to the Board of Trustees following these procedures.

1. Policy proposals that originate with the University President (or designated representatives) shall be presented to the Senate for review and approval before being submitted to the Board of Trustees.

2. Likewise, proposals approved by the Senate shall be transmitted to the University President for approval.

3. Proposals approved by the Senate and the University President shall be submitted by the University President to the Board of Trustees. It is the responsibility of the Senate officers to ensure such submission.

4. Proposals approved by the Senate may be vetoed by the University President within three months (not including the time from the end of the Spring semester of one academic year to the start of the Fall semester of the next academic year) of their transmittal to the University President.

5. If the University President vetoes a proposal passed by the Senate, that veto shall be presented in writing to the Senate President. The Senate President shall report the veto to the Senate at its next meeting. The Senate may appeal the veto to the Board of Trustees upon a two-thirds majority vote of eligible senators. Written notice of the appeal shall be transmitted immediately to the University President who shall submit a written copy of the veto to the Board of Trustees.
The Senate President shall also submit a written copy of the Senate’s appeal to the Board of Trustees.

6. If, within three months (not including the time from the end of the Spring term of one academic year to the start of the Fall term of the next academic year) of transmittal to the University President, a proposal passed by the Senate is neither vetoed nor approved by the University President, the proposal will be deemed approved by the University President, and will be submitted by the Senate President to the Board of Trustees for its approval. Procedures for temporarily extending the three-month period for particular proposals shall be contained in the Bylaws.

F. List of Matters of Responsibility and Authority

1. Matters of Academic Policy and Procedures

a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

i. All curricular matters, including establishment, dissolution, and changes in degree programs.

ii. Requirements for certificates and academic degrees.

iii. Regulations regarding attendance, examinations, grading, scholastic standing, probation, and honors.

iv. Teaching quality and the evaluation of teaching.

v. All matters pertaining to the academic calendar.

vi. The appointment, promotion, tenure, dismissal, and leaves of the academic faculty.

vii. Criteria for positions that are to be accorded academic rank.

viii. Academic freedom: rights and responsibilities.

ix. Regulations concerning the awarding of honorary degrees.

x. Procedures for the selection of Deans and Department Chairs.

xi. Requirements and criteria for unit charters for each academic department.

xii. Other areas under authority as may be granted by the Board of Trustees, the University President, or their designated representative.

b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:
i. Academic organization, including the establishment or elimination of schools, colleges, or departments, and the reorganization of the academic structure.

2. Matters of Research Policy and Procedures
   a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:
      i. All issues and performance other than the allocation and distribution of resources.
   b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:
      i. Allocation and distribution of unrestricted funds made available to the university for discretionary allocation in support of research or scholarly work.

3. Matters of Policy and Procedures Concerning Professional Staff
   a. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:
      i. All issues of concern only to professional staff.

4. Other Matters of Policy and Procedure
   a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:
      i. Internal function of the Senate, including Bylaws, committee structure, etc.
      ii. Other areas under authority as shall be granted by the Board of Trustees, the University President, or their designated representative.
   b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:
      i. Fringe benefits.
      ii. Institutional priorities.
      iii. Allocation and utilization of the university’s human, fiscal, and physical resources.
      iv. The J.R. Van Pelt Library, computing facilities, audiovisual support, E.R. Lauren Bookstore, Seaman Museum, etc. as they affect scholarly, instructional, and research activities.
v. Admission standards and procedures.

vi. Student financial aid.

vii. Selection of the University President, the Provost, and other major university-wide administrators.

viii. Administrative procedures and organizational structure.

ix. The evaluation of administrators.

x. All areas of student affairs not mentioned specifically above, including their effect on the educational process and on academic achievement.

G. Voting on the various matters shall be limited to subsets of senators and their constituents. (Reference is made to Section F of this article).

1. Only Senators shall vote on matters before the Senate, or their Alternates may vote, if the Senator is not present.

2. Only Faculty Senators or their Alternates, including at-large Faculty Senators, may vote on academic matters.

3. Only Faculty Senators or their Alternates, including at-large Faculty Senators, and Professional Staff Senators representing independent research units or their Alternates may vote on research matters.

4. Only Professional Staff Senators or their Alternates, including at-large Professional Staff Senators, may vote on matters affecting the professional staff.

5. All Senators or their Alternates may vote on Senate matters affecting the entire university.

6. All Senators or and their Alternates may vote in Senate committee deliberations.

7. The Bylaws shall include procedures for classifying the academic, research, staff, and other matters brought before the Senate.

H. As part of its functioning, the Senate should coordinate its activities and cooperate with appropriate representative groups of faculty, staff, and students on campus.

**Article IV — Membership**

A. Number and Composition - Membership in the Senate shall be determined as follows:

1. One senator and one alternate elected by and from the academic and research faculty of each academic department.
2. One senator and one alternate elected by and from each of the professional staff and research unit representation units.

3. Alternate members shall serve with vote in the absence of the regular representative.

3. Four at-large academic and research faculty senators shall be elected by the entire faculty constituency.

4. Two at-large professional staff senators shall be elected by the professional staff and research unit constituencies.

5. Academic department representation units and academic and research faculty senators at-large shall comprise at least 60 percent of the Senate’s total membership.

6. Official non-voting liaison members from units designated by the Senate and listed in the Bylaws.

B. For election to the Senate a two year residence shall be required except for ROTC personnel and representation units having fewer than three members meeting this requirement.

B. Election and Terms of Office

1. The term of office of elected senators and alternates shall be three years except as set forth in Paragraph 3 below. After serving for six consecutive years as a senator and/or alternate, an individual shall not be eligible for re-election for a period of one year. Representation units may ask the Senate Executive Committee to waive these term limits. The term limit shall be waived on presentation to the Executive Committee a request approved by a majority vote of the constituents of the Representation Unit.

2. The election years shall be distributed as equally as possible among the various representation units and at-large positions.

3. Election of senators shall be held in the spring of each year. The term of office shall commence immediately following the end of the last meeting of the spring term on July 1. Vacancies in at-large membership created by resignation or otherwise may be filled by appointment by the President of the Senate until the next election, at which time vacancies shall be filled for the unexpired terms by elections.

Article V — Officers

The officers of the Senate shall be a President, Vice-President, and Secretary. Their duties shall be defined in the Bylaws. These officers shall be chosen by the continuing senators and the senators-elect following the annual spring elections in a manner described in the Bylaws. The officers-elect of the Senate shall assume their duties immediately after the last Senate meeting of the spring semester on July 1.
Article VI — Committees

A. The number, responsibilities and membership of committees of the Senate shall be determined by the Senate using procedures contained in the Bylaws.

B. Committee chairs shall be senators or alternates.

Article VII — Procedure

A. The business of the Senate shall be conducted according to the current edition of Robert’s Rules of Order Newly Revised (RONR) when these are not in conflict with the Bylaws of the Senate.

B. The full Senate, by two-thirds majority vote, shall rule on interpretation of ambiguous language in this Constitution and the Bylaws. Such interpretations shall be considered as amendments to the Bylaws.

Article VIII — Petitions And Ballot Initiatives

A. Petitions may be submitted to the Senate by constituents to require:

1. An immediate vote on policy proposals specified in the petition; or

2. That a Ballot Initiative (or referendum) of eligible constituents be conducted immediately as a challenge to some vote of the Senate.

B. Such petitions must be signed by at least 20 percent of constituents eligible to vote on the matter. (Reference is made to Article III, Section G).

C. A majority of eligible Senators may vote to require a Ballot Initiative of eligible constituents.

D. The President of the University or the Board of Trustees or their designated representatives can request a Ballot Initiative on a designated issue other than the appeal of a presidential veto.

E. The Bylaws shall contain procedures for the conduct of Ballot Initiatives.

ARTICLE IX — Meetings

The Senate shall meet at least once during each term of the regular academic year, in meetings scheduled before the end of Spring term of the preceding academic year. Additional meetings shall be called by the Senate President as needed, or upon written request of 20% of senators. All meetings shall be open.

Article X — Amendments
Amendments to this Constitution may be proposed at any meeting. If passed both at this meeting and at any subsequent meeting within six calendar months by a two-thirds majority, the proposed amendment shall be submitted to the Senate Constituency. Ratification shall require a two-thirds majority vote in a referendum in which a majority of eligible senate constituents cast a valid ballot. The amendment shall then become effective upon approval by the Board of Trustees.
Constitution of the University Senate of Michigan Technological University

Ratified by the Senate constituency on April 4, 2012
Approved by the Board of Control on April 27, 2012
Most recently amended on December 19, 2014
Most recent revision: July 14, 2017

Article I — Name

The name of this organization shall be The University Senate of Michigan Technological University.

Article II — Constituents

A. The University Senate’s constituency is the University’s academic and research faculty and professional staff, including staff employed at independent research units. These groups meet and operate as a unit under a single Constitution and Bylaws, with a single set of University Senate officers and committees. Voting on certain issues will be confined to one of these groups, as defined in Article III below.

B. Individuals:

1. University Senate constituents are University professional staff and faculty who are employed full time for a minimum of 9 months per year, unless otherwise excluded because of major administrative functions (see paragraph 4 below). Full time is defined as a minimum of 30 hours per week.

2. Faculty Constituents:

   a. Academic faculty shall be constituents of the University Senate, unless otherwise excluded. The academic faculty are individuals holding a rank of instructor, lecturer, senior lecturer, principal lecturer, professor of practice, assistant professor, associate professor or professor for a minimum of nine months full-time.

   b. Research faculty shall be constituents of the University Senate, unless otherwise excluded, and will be represented by the Faculty Senator elected from the department in which they are appointed. The research faculty are individuals holding a rank of research assistant professor, research associate professor or research professor for a minimum of nine months full-time.

   c. Department chairs, associate deans, and assistant deans, despite their additional status as academic faculty members, shall not serve as senators or alternates. They are considered constituents of the Senate.
3. Professional Staff Constituents

a. Professional staff including members of independent research units, shall be constituents of the University Senate, unless otherwise excluded because of major administrative functions as defined in the Bylaws (independent research units are not administered by one or more academic departments).

b. The Bylaws shall contain procedures for identifying the University professional staff that form the constituency of the professional staff membership and for resolving problems of constituency of individuals not clearly specified in this Article.

4. The University President, Provost, Vice Provosts, Vice Presidents, Chief Financial Officer, and all deans and equivalent directors, shall not be constituents of the Senate.

C. Representation Units

1. Each constituent of the Senate shall be a member of one representation unit. A senator elected by members of each unit shall represent each unit. The units and their included constituents are:

a. Academic Departments. Academic and research faculty holding appointments in an academic department or school shall be the only faculty constituent members of that department or school.

b. Research Units and Professional Staff:

i. The Senate’s Professional Staff Policy Committee will define the composition of the professional staff and independent research representation units.

ii. There shall be no more than 12 professional staff representation units, including independent research units. One of the units shall be the Library. The other eleven shall be composed as defined by the Bylaws. The groupings of the professional staff units are only for Senate representation. The reporting structures of constituents within any one unit may differ.

iii. All Senate constituents employed in an independent research unit shall be constituent members of that unit. A research unit may be included as part of another constituent unit.

iv. Senate constituents as defined above who are not constituent members of an academic department or research unit shall be members of a professional staff representation unit

2. In cases where a constituent is eligible to belong to more than one unit, that person will permanently select one unit and inform the Senate Secretary of that selection.

3. The representation units shall be listed in the Bylaws. The Bylaws shall contain procedures for reviewing and updating the list as recommended by the Professional Staff Policy Committee.

Article III — Functions
A. The Senate is the representative body for its constituents and speaks on their behalf on matters under the Senate’s jurisdiction. The Senate shall establish, review, and recommend policy and procedures on matters under its jurisdiction. The Senate also is the principal forum for discussion of any matters of interest to the university community.

B. The Senate shall have the responsibility and the authority to review and establish policy in some matters, and to review and make recommendations in other matters. The University President, the Board of Trustees, or their designated representatives may stipulate additional areas in which the Senate shall have responsibility and authority.

C. By its approval of this constitution, the Board of Trustees relinquishes none of its constitutional or statutory authority.

D. Section F of this article lists matters in which the Senate has the responsibility and the authority to review and establish policy. Normally, the Board of Trustees will approve policy in these areas only after it receives policy proposals approved by the Senate.

E. For matters in which the Senate has the responsibility and the authority to review and establish policy, proposals shall be submitted to the Board of Trustees following these procedures.

1. Policy proposals that originate with the University President (or designated representatives) shall be presented to the Senate for review and approval before being submitted to the Board of Trustees.

2. Likewise, proposals approved by the Senate shall be transmitted to the University President for approval.

3. Proposals approved by the Senate and the University President shall be submitted by the University President to the Board of Trustees. It is the responsibility of the Senate officers to ensure such submission.

4. Proposals approved by the Senate may be vetoed by the University President within three months (not including the time from the end of the Spring semester of one academic year to the start of the Fall semester of the next academic year) of their transmittal to the University President.

5. If the University President vetoes a proposal passed by the Senate, that veto shall be presented in writing to the Senate President. The Senate President shall report the veto to the Senate at its next meeting. The Senate may appeal the veto to the Board of Trustees upon a two-thirds majority vote of eligible senators. Written notice of the appeal shall be transmitted immediately to the University President who shall submit a written copy of the veto to the Board of Trustees. The Senate President shall also submit a written copy of the Senate’s appeal to the Board of Trustees.
6. If, within three months (not including the time from the end of the Spring term of one academic year to the start of the Fall term of the next academic year) of transmittal to the University President, a proposal passed by the Senate is neither vetoed nor approved by the University President, the proposal will be deemed approved by the University President, and will be submitted by the Senate President to the Board of Trustees for its approval. Procedures for temporarily extending the three-month period for particular proposals shall be contained in the Bylaws.

F. List of Matters of Responsibility and Authority

1. Matters of Academic Policy and Procedures

a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

i. All curricular matters, including establishment, dissolution, and changes in degree programs.

ii. Requirements for certificates and academic degrees.

iii. Regulations regarding attendance, examinations, grading, scholastic standing, probation, and honors.

iv. Teaching quality and the evaluation of teaching.

v. All matters pertaining to the academic calendar.

vi. The appointment, promotion, tenure, dismissal, and leaves of the academic faculty.

vii. Criteria for positions that are to be accorded academic rank.

viii. Academic freedom: rights and responsibilities.

ix. Regulations concerning the awarding of honorary degrees.

x. Procedures for the selection of Deans and Department Chairs.

xi. Requirements and criteria for unit charters for each academic department.

xii. Other areas under authority as may be granted by the Board of Trustees, the University President, or their designated representative.

b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

i. Academic organization, including the establishment or elimination of schools, colleges, or departments, and the reorganization of the academic structure.
2. Matters of Research Policy and Procedures

a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

i. All issues and performance other than the allocation and distribution of resources.

b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

i. Allocation and distribution of unrestricted funds made available to the university for discretionary allocation in support of research or scholarly work.

3. Matters of Policy and Procedures Concerning Professional Staff

a. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

i. All issues of concern only to professional staff.

4. Other Matters of Policy and Procedure

a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

i. Internal function of the Senate, including Bylaws, committee structure, etc.

ii. Other areas under authority as shall be granted by the Board of Trustees, the University President, or their designated representative.

b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

i. Fringe benefits.

ii. Institutional priorities.

iii. Allocation and utilization of the university’s human, fiscal, and physical resources.

iv. The J.R. Van Pelt Library, computing facilities, audiovisual support, E.R. Lauren Bookstore, Seaman Museum, etc. as they affect scholarly, instructional, and research activities.

v. Admission standards and procedures.

vi. Student financial aid.
vii. Selection of the University President, the Provost, and other major university-wide administrators.

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3. Four at-large academic and research faculty senators shall be elected by the entire faculty constituency.

4. Two at-large professional staff senators shall be elected by the professional staff and research unit constituencies.

5. Academic department representation units and academic and research faculty senators at-large shall comprise at least 60 percent of the Senate’s total membership.

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2. The election years shall be distributed as equally as possible among the various representation units and at-large positions.

3. Election of senators shall be held in the spring of each year. The term of office shall commence on July 1. Vacancies in at-large membership created by resignation or otherwise may be filled by appointment by the President of the Senate until the next election, at which time vacancies shall be filled for the unexpired terms by elections.

Article V — Officers

The officers of the Senate shall be a President, Vice-President, and Secretary. Their duties shall be defined in the Bylaws. These officers shall be chosen by the continuing senators-and the senators-elect following the annual spring elections in a manner described in the Bylaws. The officers-elect of the Senate shall assume their duties on July 1.

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B. The full Senate, by two-thirds majority vote, shall rule on interpretation of ambiguous language in this Constitution and the Bylaws. Such interpretations shall be considered as amendments to the Bylaws.

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A. Petitions may be submitted to the Senate by constituents to require:

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B. Such petitions must be signed by at least 20 percent of constituents eligible to vote on the matter. (Reference is made to Article III, Section G).

C. A majority of eligible Senators may vote to require a Ballot Initiative of eligible constituents.

D. The President of the University or the Board of Trustees or their designated representatives can request a Ballot Initiative on a designated issue other than the appeal of a presidential veto.

E. The Bylaws shall contain procedures for the conduct of Ballot Initiatives.

**ARTICLE IX — Meetings**

The Senate shall meet at least once during each term of the regular academic year, in meetings scheduled before the end of Spring term of the preceding academic year. Additional meetings shall be called by the Senate President as needed, or upon written request of 20% of senators. All meetings shall be open.

**Article X — Amendments**

Amendments to this Constitution may be proposed at any meeting. If passed both at this meeting and at any subsequent meeting within six calendar months by a two-thirds majority, the proposed amendment shall be submitted to the Senate Constituency. Ratification shall require a majority vote in a referendum in which a majority of eligible senate constituents cast a valid ballot. The amendment shall then become effective upon approval by the Board of Trustees.
VI. REPORTS

A. Undergraduate Student Government Report – Mr. Mitchell Sanford, President
B. Graduate Student Government Report – Mr. Hossein Tavakoli, President
C. University Senate Report – Dr. Martin Thompson, President
USG Update

October 20, 2017
Mitchell Sanford, USG President
Agenda

● USG Body Update
● USG Events
● Overview of USG Goals
● Increasing Diversity
USG Body Update

- New Treasurer
- Results of fall elections
- Open body positions
USG Events

- Congressman Jack Bergman Town Hall
- National Society of Black Engineers Taboo Talks
- USG Town Hall
- Free Speech Events
USG Body Goals
Promote Student Organization Events through USG Media Platforms

- Assist student organizations market their events to increase attendance and change the mindset of student organizations that USG is not only a piggy bank
Grow awareness of the Undergraduate Student Government about the values and ideals it holds related to inclusiveness, free speech, and governance

- Coordinating and implementing events which include free speech events
- Collaborating with select organizations to assist in their coordination of events related to inclusiveness, free speech, and governance
Increase qualitative and quantitative feedback from the University student population

- Setting up a mobile RFID tapping station by the end of October

To promote a body that is satisfied with the direction and operations of the Undergraduate Student Government

- Send out monthly surveys to body members
- Promote positive office atmosphere
- Hold social events for the body
Diversity

- Increasing diversity of faculty
Questions
Graduate Student Government of Michigan Tech

Presented by
Hossein Tavakoli

Oct 20th, 2017

Board of Trustees
Michigan Technological University
Summer 2017 Softball League

- 10 teams played
- League Champions: IT
- End of season picnic celebration had ~70 guests
Transportation - New Bus Routes

❖ Michigan Tech-City Shuttle
❖ Michigan Tech-City Shuttle Evening Loop
❖ Saturday Shuttle
Updates

❖ Cultural Events Fund Committee
❖ Food Waste
❖ Sustainability
Updates

❖ Emergency Fund
❖ Diversity
❖ Presidential Search Committee
❖ University Portrait Draft Revision
Orientation 2017

❖ Graduate School, MEEM, and ISA orientation presentations
❖ International student shopping trips (150 students)
❖ Annual Orientation Picnic (350 students)
Advocacy & Communication

gsg.mtu.edu
Enrichment & Collaboration

Alumni Reunion Poster Session *(Aug. 4)*

---

**Academic Seminars**

*Research Design (Sep. 12)*

*Grant Writing (Oct. 11)*

---

**3MT (Nov. 8)**
Enrichment & Collaboration

External speaker:
Alaina Levine,
President of 'Quantum Success Solution'
(January: week of 22nd)

Jorge Cham, PhD Comics
(Nov. 3)
Enrichment & Collaboration

Travel Grant Program

Summer 2017: 34 grants awarded totaling $8,100

Fall 2017: 60 grants available, will be awarded in October
Enrichment & Collaboration

➔ Virtual Career Fair for Graduate Students:

➔ MTU Graduate School Virtual Career Fair
◆ (Oct. 26, 1-4 PM)
Enrichment & Collaboration

➔ Professional Development Program for Graduate Students and Postdoctoral Fellows:

- **September 21**: Explore Your Career Options and Pathways
  - Panel discussion to explore a range of career options for PhD and Postdoctoral Fellows.

- **November 9**: Team Skills
  - Learn about teamwork principles and develop and design principles, leadership, and member skills.

- **March 1**: Effective Negotiation Strategies
  - Develop and broaden negotiation skills for professional enhancement.

- **April 12**: Publishing Research Results in Peer-Reviewed Journals
  - Panel discussion to extend your understanding of the publication, submission, and review process.

- **October 19**: Enhance and Broaden Your Communication & Interview Skills
  - Develop effective communication skills.

- **January 25**: Assuming Leadership Positions
  - Learn techniques, strategies, and competencies for advancement into leadership roles.

- **March 22**: Sustainability/Ethical STEM
  - Enhance your understanding of the role of ethics in STEM professions.

Please Register; Space is Limited!
mtu.edu/gradschool/seminar
All sessions are from 3 to 5 pm (EST)
404 Administration Building
Community & Awareness

- First Friday Social:
  - By ROTC
  - Sept. 1st ~250

- Bowling Night (Oct 27)

- Laser Tag (Nov. 16)

- Pre Hockey Game Social with Alumni (During Carnival)
Formal Session of the Board of Trustees - VI. Reports
Concerns:

➔ Insurance
➔ Housing
➔ Accessibility
University Senate Report

Presented to the Board of Trustees

October 20, 2017

Marty Thompson, President
University Senate
Approved Proposals

**Senate proposal 14-17:** Graduate Certificate in Automotive Systems and Controls

**Senate proposal 20-17:** Proposal to Modify Senate Policy 413.1: Accelerated Master's Programs Graduate School

**Senate proposal 19-17:** Revisions to the Senate Constitution

Key revisions:

1. Update faculty rankings
2. Clarify senate and committee voting rules
3. Eligibility for new employees
4. Term of office and term limits
Focal Points

- Mission Statement
- Presidential Search
- Assessment
Works in progress

1. Syllabus requirements (assessment, outcomes)
2. Accessible Technologies
3. Laptop initiative
4. Student textbook Lending Project
5. Innovative new degree programs
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
VII-A. ANALYSIS OF INVESTMENTS

Attached are analyses of investments as of June 30, 2017 to August 31, 2017.
### MICHIGAN TECH UNIVERSITY

**INVESTMENT PORTFOLIO**

**JUNE 30, 2017 THROUGH AUGUST 31, 2017**

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Market Value 6/30/17</th>
<th>Market Value 8/31/17</th>
<th>Change</th>
<th>Fiscal-Year Investment Return</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Money Market Fund</strong></td>
<td>$54,298</td>
<td>$12,273</td>
<td>$(42,025)</td>
<td>0.09%</td>
</tr>
<tr>
<td><strong>Equity Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbia Seligman Com CL A</td>
<td>$244,442</td>
<td>$512,808</td>
<td>$268,366</td>
<td>3.71%</td>
</tr>
<tr>
<td>Delaware Value Fund</td>
<td>2,299,754</td>
<td>2,382,963</td>
<td>83,209</td>
<td>0.81%</td>
</tr>
<tr>
<td>Fidelity Advisor Biotechnology CL A</td>
<td>242,283</td>
<td>524,464</td>
<td>282,181</td>
<td>6.54%</td>
</tr>
<tr>
<td>Fidelity Advisor Health Care CL A</td>
<td>247,914</td>
<td>506,877</td>
<td>258,963</td>
<td>1.80%</td>
</tr>
<tr>
<td>First Eagle Global Class A</td>
<td>249,613</td>
<td>504,356</td>
<td>254,743</td>
<td>0.95%</td>
</tr>
<tr>
<td>Vanguard Extended Market Index Fund</td>
<td>2,730,112</td>
<td>2,749,106</td>
<td>18,994</td>
<td>0.70%</td>
</tr>
<tr>
<td>Vanguard 500 Index Fund</td>
<td>9,908,159</td>
<td>10,141,969</td>
<td>233,810</td>
<td>2.36%</td>
</tr>
<tr>
<td><strong>Total Equity Funds</strong></td>
<td>15,922,277</td>
<td>17,322,543</td>
<td>1,400,266</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>8,265,627</td>
<td>8,378,152</td>
<td>112,525</td>
<td>1.56%</td>
</tr>
<tr>
<td>Lord Abbett Short Duration Income Fund</td>
<td>7,502,812</td>
<td>7,543,812</td>
<td>41,000</td>
<td>0.60%</td>
</tr>
<tr>
<td><strong>Total Fixed Income Funds</strong></td>
<td>15,768,439</td>
<td>15,921,964</td>
<td>153,525</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$31,745,014</td>
<td>$33,256,780</td>
<td>$1,511,766</td>
<td>1.56%</td>
</tr>
</tbody>
</table>

**Current Asset Allocation**

- **Equities, 52.1%**
- **Fixed Income, 47.9%**
- **Money Market, 0.0%**
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 August 31, 2017.
# MICHIGAN TECH UNIVERSITY
## OUTSTANDING BALANCES ON BOND ISSUANCES
### AUGUST 31, 2017

<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>$ 5,090,000</td>
<td>$ -</td>
<td>$ 5,090,000</td>
<td>$ 15,880,000</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>15,600,000</td>
<td>15,600,000</td>
<td>18,235,000</td>
<td></td>
</tr>
<tr>
<td><strong>Series 2009A Bond Issue (maturity 2039)</strong></td>
<td>15,180,000</td>
<td>420,000</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>
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<tr>
<td><strong>Total Series 2009 Bond Issue</strong></td>
<td>8,120,000</td>
<td>220,000</td>
<td>10,975,000</td>
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<tr>
<td><strong>Series 2010A Bond Issue (maturity 2040)</strong></td>
<td>27,660,000</td>
<td>1,255,000</td>
<td>28,915,000</td>
<td>33,070,000</td>
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<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>
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<tr>
<td>Life Safety Improvements on Campus</td>
<td></td>
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<tr>
<td><strong>Total Series 2010 Bond Issue</strong></td>
<td>12,025,000</td>
<td>765,000</td>
<td>14,265,000</td>
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<tr>
<td><strong>Series 2012A Bond Issue (maturity 2034)</strong></td>
<td>23,435,000</td>
<td>435,000</td>
<td>23,870,000</td>
<td>24,295,000</td>
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<td>Refunding of 2003 &amp; 2004 Fixed Rate Bond Issues</td>
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<td>SDC Ice Plant and Partial Roof of SDC</td>
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<td></td>
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<tr>
<td><strong>Total Series 2012 Bond Issue</strong></td>
<td>$ 91,510,000</td>
<td>$ 3,095,000</td>
<td>$ 94,605,000</td>
<td>$ 116,720,000</td>
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<td><strong>Series 2013A Bond Issue (maturity 2036)</strong></td>
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<td>Refunding 2006 Bond Issue</td>
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<tr>
<td>Refunding partial 2008 Bond Issue</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Total Series 2013 Bond Issue</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Series 2015A Bond Issue (maturity 2046)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Daniell Heights Renovation</td>
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<tr>
<td>Campus Dining Renovation</td>
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<td>Fuel Storage Tank Facility</td>
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<td>Chemical Storage Facility</td>
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<td>Chemistry Labs Renovation</td>
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<tr>
<td>IT and Safety Systems Upgrades</td>
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<td></td>
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<tr>
<td>McNair Hall Bathrooms Renovation</td>
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<tr>
<td><strong>Total Series 2015 Bond Issue</strong></td>
<td></td>
<td></td>
<td></td>
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</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
4th Quarter
Ended June 30, 2017
TOTAL: $59,714,383

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)
FYTD 2016: 63
FYTD 2017: 56

Proposals Submitted
Awards Received
Awards Received ($)

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '17 as of 6/30</th>
<th>FY '16 as of 6/30</th>
<th>FY '17 as of 6/30</th>
<th>FY '16 as of 6/30</th>
<th>Variance $</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>58</td>
<td>71</td>
<td>35</td>
<td>29</td>
<td>3,004,822</td>
<td>1,422,217</td>
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<tr>
<td>National Science Foundation</td>
<td>168</td>
<td>186</td>
<td>60</td>
<td>65</td>
<td>11,268,683</td>
<td>7,363,202</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>69</td>
<td>48</td>
<td>43</td>
<td>43</td>
<td>3,977,021</td>
<td>2,078,969</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>90</td>
<td>72</td>
<td>100</td>
<td>69</td>
<td>12,680,388</td>
<td>9,886,023</td>
</tr>
<tr>
<td>US Department of Education</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>382,898</td>
<td>208,945</td>
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<tr>
<td>US Department of Energy</td>
<td>30</td>
<td>40</td>
<td>17</td>
<td>20</td>
<td>4,908,866</td>
<td>2,289,109</td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>47</td>
<td>45</td>
<td>10</td>
<td>15</td>
<td>1,703,759</td>
<td>3,203,615</td>
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<td>US Department of Transportation</td>
<td>15</td>
<td>23</td>
<td>22</td>
<td>20</td>
<td>3,264,556</td>
<td>1,834,601</td>
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<tr>
<td>Other Federal Agencies*</td>
<td>52</td>
<td>55</td>
<td>35</td>
<td>29</td>
<td>2,722,642</td>
<td>2,591,175</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>531</td>
<td>543</td>
<td>325</td>
<td>292</td>
<td>43,913,635</td>
<td>30,877,856</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>31</td>
<td>41</td>
<td>20</td>
<td>28</td>
<td>1,770,931</td>
<td>3,808,672</td>
</tr>
<tr>
<td>Industrial</td>
<td>200</td>
<td>181</td>
<td>190</td>
<td>188</td>
<td>7,068,997</td>
<td>7,128,823</td>
</tr>
<tr>
<td>Foreign</td>
<td>17</td>
<td>19</td>
<td>17</td>
<td>16</td>
<td>1,184,275</td>
<td>857,054</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>93</td>
<td>72</td>
<td>40</td>
<td>31</td>
<td>1,570,066</td>
<td>1,523,010</td>
</tr>
<tr>
<td>Subtotal</td>
<td>872</td>
<td>856</td>
<td>592</td>
<td>555</td>
<td>55,507,904</td>
<td>44,195,415</td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>305</td>
<td>334</td>
<td>4,179,577</td>
<td>7,439,801</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>17</td>
<td>27</td>
<td>26,902</td>
<td>26,602</td>
</tr>
<tr>
<td>Grand Total</td>
<td>872</td>
<td>856</td>
<td>914</td>
<td>916</td>
<td>59,714,383</td>
<td>51,661,818</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.
Formal Session of the Board of Trustees - VII. Informational Items

Vice President for Research
Fiscal Year 2017
4th Quarter
Ended June 30, 2017
TOTAL: $59,714,383

Percentages of Tenured & Tenure Track Faculty
(as either PI or Co-PI)

Submitting Proposals since 07/01/2016
69.0%

On Active Projects as of 06/30/2017
58.8%

<table>
<thead>
<tr>
<th>SPO &amp; IIE Metrics \ 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 College</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>
</tr>
</thead>
<tbody>
<tr>
<td>Proposals Submitted</td>
<td>Administration</td>
<td>College of Engineering</td>
<td>College of Sciences &amp; Arts</td>
<td>Great Lakes Research Center</td>
<td>Keweenaw Research Center</td>
<td>Michigan Tech Research Institute</td>
<td>Pavlis Honors College</td>
<td>School of Business &amp; Economics</td>
<td>School of Forest Resources &amp; Env Science</td>
<td>School of Technology</td>
</tr>
<tr>
<td>Federal</td>
<td>224,853</td>
<td>4,913,216</td>
<td>758,024</td>
<td>187,483</td>
<td>29,714</td>
<td>4,058,311</td>
<td>7,350</td>
<td>164,720</td>
<td>10,343,671</td>
<td>6,538,009</td>
</tr>
<tr>
<td>Gifts</td>
<td>1,130,659</td>
<td>3,096,250</td>
<td>437,454</td>
<td>687,554</td>
<td>1,770,931</td>
<td>33,569,964</td>
<td>3,808,672</td>
<td>-53.5%</td>
<td>-184,684</td>
<td>51,661,818</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>42,000</td>
<td>27,549,209</td>
<td>7,651,048</td>
<td>211,692</td>
<td>7,842,086</td>
<td>37,925,832</td>
<td>6,283,234</td>
<td>30.0%</td>
<td>184,684</td>
<td>37,620,126</td>
</tr>
<tr>
<td>Percent Change</td>
<td>-43.3%</td>
<td>36.5%</td>
<td>-22.5%</td>
<td>N/A</td>
<td>59.4%</td>
<td>-14.2%</td>
<td>12.1%</td>
<td>-46.7%</td>
<td>72.8%</td>
<td>294.7%</td>
</tr>
<tr>
<td>Disclosures Received</td>
<td>-</td>
<td>76.25%</td>
<td>18.47%</td>
<td>-</td>
<td>5.28%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>18.8%</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>2</td>
<td>52</td>
<td>17</td>
<td>1</td>
<td>17</td>
<td>14</td>
<td>2</td>
<td>-</td>
<td>1</td>
<td>32</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>-</td>
<td>58.82%</td>
<td>35.29%</td>
<td>5.88%</td>
<td>5.88%</td>
<td>35.29%</td>
<td>5.88%</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>License Agreements</td>
<td>-</td>
<td>11</td>
<td>5</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross Royalties</td>
<td>-</td>
<td>57.14%</td>
<td>24.49%</td>
<td>16.33%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2.04%</td>
<td>326,169</td>
<td>301,120</td>
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</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

4th Quarter

Ended June 30, 2017

TOTAL: $15,930,364

### Proposals Submitted & Awards Received

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>FY '17 as of 6/30</th>
<th>FY '16 as of 6/30</th>
<th>FY '17 as of 6/30</th>
<th>FY '16 as of 6/30</th>
<th>Awards Received</th>
<th>Awards Received ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>80</td>
<td>72</td>
<td>175</td>
<td>164</td>
<td>7,396,022</td>
<td>4,834,597</td>
</tr>
<tr>
<td>Business &amp; Economics</td>
<td>2</td>
<td>6</td>
<td>19</td>
<td>25</td>
<td>458,269</td>
<td>191,355</td>
</tr>
<tr>
<td>Chemical</td>
<td>14</td>
<td>17</td>
<td>28</td>
<td>35</td>
<td>708,046</td>
<td>608,002</td>
</tr>
<tr>
<td>Civil</td>
<td>9</td>
<td>8</td>
<td>19</td>
<td>25</td>
<td>182,151</td>
<td>824,263</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>27</td>
<td>24</td>
<td>46</td>
<td>59</td>
<td>744,384</td>
<td>989,961</td>
</tr>
<tr>
<td>Defense &amp; Space</td>
<td>41</td>
<td>26</td>
<td>49</td>
<td>35</td>
<td>2,939,662</td>
<td>1,687,208</td>
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<tr>
<td>Energy</td>
<td>18</td>
<td>9</td>
<td>43</td>
<td>35</td>
<td>724,092</td>
<td>735,900</td>
</tr>
<tr>
<td>Environmental</td>
<td>8</td>
<td>8</td>
<td>15</td>
<td>17</td>
<td>157,329</td>
<td>129,959</td>
</tr>
<tr>
<td>Health</td>
<td>16</td>
<td>19</td>
<td>23</td>
<td>23</td>
<td>530,093</td>
<td>381,552</td>
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<tr>
<td>Industrial Engineering</td>
<td>12</td>
<td>9</td>
<td>19</td>
<td>29</td>
<td>204,332</td>
<td>206,520</td>
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<tr>
<td>IT Services</td>
<td>9</td>
<td>10</td>
<td>19</td>
<td>16</td>
<td>750,829</td>
<td>611,886</td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>19</td>
<td>17</td>
<td>34</td>
<td>39</td>
<td>420,984</td>
<td>376,258</td>
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<tr>
<td>Other</td>
<td>16</td>
<td>9</td>
<td>26</td>
<td>20</td>
<td>244,388</td>
<td>623,048</td>
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<tr>
<td>Technology</td>
<td>11</td>
<td>10</td>
<td>11</td>
<td>14</td>
<td>469,783</td>
<td>343,036</td>
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<tr>
<td><strong>Total</strong></td>
<td>282</td>
<td>244</td>
<td>526</td>
<td>536</td>
<td>15,930,364</td>
<td>12,543,545</td>
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</tbody>
</table>

### Awards Received (%) & Variance

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>Variance $</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>2,561,425</td>
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<tr>
<td>Chemical</td>
<td>-642,112</td>
<td>-77.9%</td>
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<tr>
<td>Civil</td>
<td>-11,808</td>
<td>-1.6%</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>-245,577</td>
<td>-74.2%</td>
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<tr>
<td>Defense &amp; Space</td>
<td>-2,188</td>
<td>-1.1%</td>
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<tr>
<td>Energy</td>
<td>148,541</td>
<td>38.9%</td>
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<td>Environmental</td>
<td>148,541</td>
<td>21.1%</td>
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<td>Health</td>
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<tr>
<td>Industrial Engineering</td>
<td>-2,188</td>
<td>-1.1%</td>
</tr>
<tr>
<td>IT Services</td>
<td>-2,188</td>
<td>-1.1%</td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>-378,660</td>
<td>-60.8%</td>
</tr>
<tr>
<td>Other</td>
<td>126,747</td>
<td>36.9%</td>
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<tr>
<td>Technology</td>
<td>126,747</td>
<td>36.9%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,386,819</td>
<td>27.0%</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 PRELIMINARY Research Expenditures by College/School/Division
Fiscal Year 2017 & 2016
As of June 30, 2017 and June 30, 2016

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>Preliminary FY2017</th>
<th>Preliminary FY2016</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,926,767</td>
<td>2,652,771</td>
<td>273,996</td>
<td>10.3%</td>
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<tr>
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<td>25,217,506</td>
<td>28,885,027</td>
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</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>16,643,420</td>
<td>16,825,212</td>
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</tr>
<tr>
<td>Great Lakes Research Center**</td>
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<td>N/A</td>
<td>232,583</td>
<td>N/A</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>298,791</td>
<td>284,189</td>
<td>14,602</td>
<td>5.1%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>7,928,461</td>
<td>7,076,343</td>
<td>852,118</td>
<td>12.0%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>8,412,594</td>
<td>8,912,958</td>
<td>(500,364)</td>
<td>-5.6%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>1,353,978</td>
<td>1,630,253</td>
<td>(276,275)</td>
<td>-16.9%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>5,894,354</td>
<td>5,508,378</td>
<td>385,976</td>
<td>7.0%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>557,241</td>
<td>760,637</td>
<td>(203,396)</td>
<td>-26.7%</td>
</tr>
<tr>
<td>Total</td>
<td>69,465,695</td>
<td>72,535,768</td>
<td>(3,070,073)</td>
<td>-4.2%</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.

**Includes GLRC department (non-academic researchers) expenditures only. All other GLRC center expenditures are shown in the researchers’ respective colleges.
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 engagement activities.

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

- A total of $5.00 million was raised for Michigan Tech from July 1, 2017 through August 31, 2017 — 14% of the fundraising goal of $36.0 million for FY 2018.
- Major/Planned Giving raised $3.07 million so far in FY 2018 — 16.6% of its $18.5 million FY goal.
- Remaining pending gift asks for this category total $38.33 million as of August 21, 2017. Pending gift asks are down as a result of cleaning up old asks from the Generations of Discovery campaign.
- The planned giving registry totals $157.3 million as of August 31, 2017.
  - $97.9 million (62%) is endowed
  - $137.4 million (87%) is revocable
- Advancement and Alumni Engagement hired a new operations manager, engagement officer, office assistant, and administrative aide.
- 2016-17 Goals: Overall Annual Giving - $2.75 million; Annual Fund gifts - $1.5 million (* Unrestricted, academic unit unrestricted and Annual Fund scholarship gifts).
- 2016-17 Results: Overall Annual Giving - $2.47 million (90% of goal); Annual Fund - $1.36 million (91% of goal)
- Campus Campaign 2017-18 kicked off the annual faculty/staff campaign on Monday, September 18. Goal is to continue the trend in increasing the overall participation rate:
  - FY15: 22.3%
  - FY16: 26.6%
  - **FY17: 28.8%**
- 2016-17 Reunion Giving Program results:
  - 60-year: 1957 $62,636
  - 50-year: 1967 $190,976
  - 40-year: 1977 $546,469
  - 30-year: 1987 $32,161
  - 25-year: 1992 $16,901
  - 20-year: 1997 $10,455
  - 10-year: 2007 $16,548
  - **Total: $876,146**

- During family week-end (October 6-8) Student Philanthropy Council members will be sharing information on the Tech Parents Annual Fund – what the funds support and how to make a gift – as well as a message of thanks for parent donors.
- The annual Presidential Council of Alumnae (PCA) event took place on campus September 21-22. The Council partnered with Career Services to sponsor Professional Development events for current students. The programs featured Brenda Ryan as keynote speaker along with a series of lightning talks by PCA members.
Alumni Engagement

- My Michigan Tech alumni portal allows alumni to reconnect through the exclusive online alumni directory and share their accomplishments and milestones with classmates by posting a class note. (Most of these are also published in the Michigan Tech magazine.) They can also use this platform to update their contact and employment information. To date, there have 4,403 updates through the portal.

- A record number — 677 — alumni and friends were on campus for the 2017 Alumni Reunion. Old friendships were rekindled and new ones made while sharing memories of being tested by epic snowstorms—and exams. Of building engines, bridges—and careers. Of meeting the professor, or roommate—or mentor that changed their lives forever. The new offering - Family U – brought parents and grandparents and children together for a day of fun and learning.

- Future U – Alumni & student mentoring program offered in conjunction with Career Services. We are going to be piloting this online program this fall with a small group of students in UN classes and a select group of young alumni.

- The Michigan Tech Alumni Board of Directors will be on campus for meetings during Homecoming, October 19 & 20.
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  
July 15, 2017—September 29, 2017

News by Category
Athletics  521  
Alumni   460  
Research  312  
Student Life  16  
Business/People   162  
Events   689  
Hometown News   27  
Curricula/Programs  130  
Other     136  

Total Traditional Media  2,462

Social Media
Michigan Tech’s social media followers are increasing steadily. Here are the numbers from July 15 through September 29, 2017

Facebook   4,127,248 post impressions, 22,379 post clicks
Twitter   396,853 post impressions, 1,147 post clicks
Instagram   19,353 photo/video likes, 116 comments
LinkedIn   5,132 pageviews, 880 followers gained
YouTube   27,622 video views, 45934 minutes watched, 1,666 total subscribers
Snapchat   1,695 friends
Pinterest   209 followers
A Few Examples


HomeTownLife, a USA Today online publication, featured a video of the Michigan Tech Mind Trekkers performing their science magic show Schoolcraft College http://www.hometownlife.com/videos/news/2017/09/22/blow-up-schoolcraft/105878524/

Fox 17 in Grand Rapids aired a story about a new stent that may help save newborns without open-heart surgery, developed by biomedical engineering senior design students at Michigan Tech in collaboration with Spectrum Health Innovations. http://fox17online.com/2017/09/19/locally-designed-device-could-save-babies-from-surgery/


Science 360, the newswire of the National Science Foundation, Tech Century, Phys.org, Scicasts and a number of other science blogs published stories on an improved cancer-detecting test strip developed on campus, with research led by Xiaohu Xia, assistant professor of chemistry, along with Adrienne Minerick, professor of chemical engineering and associate dean of the College of Engineering. https://news.science360.gov/obj/story/6b468f84-d891-430f-9cd1-702b2a90c60c/test-strips-cancer-detection-upgraded-nanoparticle
Porsche Auto World published a story about Michigan Tech’s Automotive Industry Day on campus last week. Industry days are part of CareerFEST, events surrounding and leading up to the Fall Career Fair on Sept. 27.  [http://porscheautoworld.com/automotive-industry-day-at-michigan-tech/](http://porscheautoworld.com/automotive-industry-day-at-michigan-tech/)


Science News, a biweekly magazine that publishes what it regards as the most important recent science news, ran an article in its online edition about Tara Bals (SFRES) research on earthworms and maple trees.  [https://www.sciencenews.org/blog/wild-things/invasive-earthworms-may-be-taking-toll-sugar-maples](https://www.sciencenews.org/blog/wild-things/invasive-earthworms-may-be-taking-toll-sugar-maples)


MiTechNews, a Michigan technology news website, and WJMN-TV 3 reported on two Michigan Tech researchers who received state Small Company Innovation Program (SCIP) grants to work with companies to commercialize technologies they developed.  [https://mitechnews.com/new-products-contracts/michigan-tech-researcher-gets-medc-funding-drive-business-acceleration/](https://mitechnews.com/new-products-contracts/michigan-tech-researcher-gets-medc-funding-drive-business-acceleration/)

Progressive Engineer magazine reported on DENSO Foundation grants to 22 universities, totaling nearly $1 million. Michigan Tech is one of those

**US News & World Report** interviewed Heather Simpson, assistant director of the Waino Wahtera Center for Student Success, about the special challenges faced by commuter students and how universities can support their commuters. [https://www.usnews.com/education/best-colleges/articles/2017-08-16/3-ways-to-adjust-to-college-as-a-freshman-commuter](https://www.usnews.com/education/best-colleges/articles/2017-08-16/3-ways-to-adjust-to-college-as-a-freshman-commuter)

**Smithsonian's Air & Space Magazine** published a feature article about Michigan Tech's new NASA Space Research Institute, headed by Greg Odegard (ME-EM). The institute will work on using carbon nanotubes to create a composite that is lighter and stronger than any material used in load-bearing structures today. [https://www.airspacemag.com/as-next/strong-stuff-180963954/#HKgloZEDVjYsoqph.99](https://www.airspacemag.com/as-next/strong-stuff-180963954/#HKgloZEDVjYsoqph.99)


**TechCentury**, an engineering and technology news website published by the Engineering Society of Detroit, ran an article about Steve Techtmann's (BioSci) research into the microbial signatures that can identify where a ship has traveled. The work is part of Techtmann's Young Faculty Award funded by the Defense Advanced Research Projects Agency. [https://www.techcentury.com/2017/07/31/mtu-researcher-microbes-may-tell-ships-travels/](https://www.techcentury.com/2017/07/31/mtu-researcher-microbes-may-tell-ships-travels/)


**The New York Times** published an article about new technology that may enable cars to avoid hitting deer, based on research being conducted by the Michigan Tech Research Institute and Toyota to collect radar and lidar signatures of deer of varying ages, shapes and sizes. [https://www.nytimes.com/2017/07/20/automobiles/wheels/deer-caught-in-the-headlights-your-car-may-soon-see-them.html](https://www.nytimes.com/2017/07/20/automobiles/wheels/deer-caught-in-the-headlights-your-car-may-soon-see-them.html)

**WNMU-FM** aired a report on Money Magazine's ranking of Michigan Tech as one of the best colleges for your money. [http://wnmufm.org/post/tech-named-one-nations-best-colleges-your-money#stream/0](http://wnmufm.org/post/tech-named-one-nations-best-colleges-your-money#stream/0)
CHARTS and GRAPHS

News by Category Chart

Events  Research  Curricula/Programs
Athletics  Business/People  (None)
Alumni  Other  Hometowner

7/15/2017 to 9/29/2017
News Map
Sample Clippings

The survey also asked students three questions that weren't taken into consideration in the rankings, including whether students would choose their school again. Highest marks again went to schools with a religious affiliation, including The Master's University in Santa Clara, Calif., Lancaster Bible College and Brigham Young University, Provo all tied for third. Those four schools' student bodies range from about 3,300 to 43,000 undergraduates.

Schools that specialize in science, technology, engineering and math also scored well, including Michigan Technological University and the Rose-Hulman Institute of Technology.

The WSJ/THE rankings aren't intended to be a definitive guide for all prospective students. The best school for an aspiring physicist who prefers intimate classes likely isn't the best one for a varsity athlete pursuing a business degree and interested in the Greek scene.

Rather, this list is best used as a jumping-off point for families as
25 Top Public Colleges With The Highest-Earning Graduates

Caroline Simon, CONTRIBUTION

The ivy gates of America’s oldest universities certainly have their appeal, but smart college consumers realize a variety of public colleges that can rival their exclusive counterparts — often at a much lower price.

Tech and engineering majors round the ranks of careers that are both smart and affordable. Others, like military academies, offer low-cost or free tuition for students but also come with a caveat: “You still have to think about that...
Wild Things

Invasive earthworms may be taking a toll on sugar maples

(by Sarah Zielinski; 00pm, August 31, 2017)
Giving More Taxpayer Dollars to Universities Won't Make Michigan More Educated

No link between state spending and educational attainment.

By JAMES M. KORMAN | Sept 6, 2017

In The Detroit News, Michigan Tech President Glenn Mroz argues for more taxpayer spending on state universities.

Students that get degrees, he explains, earn more than those without them. But he never says that giving state universities more taxpayers dollars will result in more students earning degrees. It won’t.

State universities charge tuition to their students, but the institutions also receive direct taxpayer dollars. Some states spend more taxpayer dollars on their universities than Michigan does. And there are states that have a more credentialed population than Michigan. There isn’t a connection between the two.

This can be seen on a chart. This looks at a state’s spending on universities and the percentage of its adult population that holds a college degree.
3 Ways to Adjust to College as a Freshman Commuter

Freshman commuters may find friends through campus jobs, says one college expert.

By Dalee Smith-Barnes, Reporter | Aug. 16, 2017, at 9:30 a.m.
Strong Stuff
These students are designing materials tough enough to land on another planet.

Professor Greg Odegard (center) works with students on the Michigan Tech SUPERNOVA computer cluster, to be used to simulate carbon nanotube materials. (Michigan Technological University)
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 - August**

<table>
<thead>
<tr>
<th>Category</th>
<th>Years</th>
<th>Employee Classification</th>
<th>AFSCME</th>
<th>Faculty</th>
<th>Non-Exempt</th>
<th>POA</th>
<th>Professional</th>
<th>Temporary</th>
<th>UAW</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injury Only w/Medical - No Loss Time</td>
<td>2016</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Lost Time Cases</td>
<td>2016</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Restricted Work Cases</td>
<td>2016</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)</td>
<td>2016</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>8</td>
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</tr>
<tr>
<td>Injury Loss Time</td>
<td>2016</td>
<td>56</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>23</td>
<td>0</td>
<td>0</td>
<td>79</td>
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<tr>
<td></td>
<td>2017</td>
<td>45</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>46</td>
<td>0</td>
<td>0</td>
<td>91</td>
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</tr>
<tr>
<td>Restricted Work Days</td>
<td>2016</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>14</td>
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</tr>
<tr>
<td></td>
<td>2017</td>
<td>75</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>49</td>
<td>0</td>
<td>0</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>Total Work Hours</td>
<td>2016</td>
<td>218,358</td>
<td>561,027</td>
<td>109,421</td>
<td>12,370</td>
<td>797,615</td>
<td>55,585</td>
<td>178,762</td>
<td>1,933,138</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>192,825</td>
<td>495,565</td>
<td>104,930</td>
<td>11,752</td>
<td>732,926</td>
<td>50,110</td>
<td>157,540</td>
<td>1,745,648</td>
<td></td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2016</td>
<td>11.3%</td>
<td>29.0%</td>
<td>5.7%</td>
<td>0.6%</td>
<td>41.3%</td>
<td>2.9%</td>
<td>9.2%</td>
<td>100.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>11.0%</td>
<td>28.4%</td>
<td>6.0%</td>
<td>0.7%</td>
<td>42.0%</td>
<td>2.9%</td>
<td>9.0%</td>
<td>100.0%</td>
<td></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.

****Work hours as of 9/8/2017****
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