AGENDA
Formal Session of the Board of Trustees
Michigan Technological University
9:00 a.m. – October 14, 2016
Ballroom B - Memorial Union Building

I. Approval of Agenda

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

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

IV. Committee Reports
   A. Academic Affairs Committee
      - Provost Report - Dr. Jackie Huntoon, Provost & Vice President for Academic Affairs
      - Research & Sponsored Programs Report - Dr. David Reed, Vice President for Research
      - Enrollment Report – Dr. Les Cook, Vice President for Student Affairs and Advancement
   B. Audit and Finance Committee
      - Treasurer’s Report - Ms. Julie Seppala, Treasurer
      - External Auditor’s Report – Randy J. Morse, Andrews Hooper Pavlik
   C. Leadership Committee

V. Consent Agenda
   A. Approval of Minutes
   B. Degrees in Course
   C. Gifts
   D. Resignations, Retirements and Off Payroll
   E. 2017 Meeting Dates

VI. Action/Discussion Items
   A. Employee Recognition
   B. Honorary Degree
   C. Board of Trustees Silver Medal
   D. Melvin Calvin Medal of Distinction
   E. Five-Year State Capital Outlay Plan and FY2018 Capital Project Request
   F. Board of Trustees Policy 12.2. Building and Property Rules and Regulations
VII. Informational Items
   A. Analysis of Investments
   B. University Issued Bond Balances
   C. Research and Sponsored Programs Report
   D. Advancement and Alumni Relations 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 14, 2016 as distributed to the Board.
II. OPENING REMARKS

A. CHAIR’S COMMENTS

B. PRESIDENT’S COMMENTS
III. REPORTS

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

October 14, 2016
Samuel Casey, USG President
Agenda

● Overview of USG Goals
  ○ Transparency
  ○ Better Representation and Advocacy
  ○ Accountability
  ○ Sustainability

● Campus Improvement Fund

● Tuition Discussion

● Portrait 2045
Transparency

- Write-up/archive of important decisions

- Rebranding
  - Marketing consulting
  - Social media and email communication
  - Lode articles

- Financial transparency
Representation & Advocacy

- New constitution structure
  - College/school representatives
  - Class representatives
- Meet your organization
- Tuition discussion
- Shared governance
  - Students are customers of the University
Accountability

- Recognition and incentive plan
- Application-based communication
  - Slack
  - Wunderlist

Sustainability

- Operate with transition in mind
- Create a USG that is successful year after year
Campus Improvement Fund

● New constitution
  ○ Allows us to use rollover funds for campus improvement

● Funding proposal
  ○ One lump sum vs many small projects
  ○ Allows large opportunity for one group
  ○ Student could improve campus as they see fit
Tuition Discussion

● USG Memorandum - July 21

● Our Concerns
  ○ Ballooning tuition
  ○ No clear end goal
  ○ Email to students was misleading
  ○ No student voice

● Our Requests
  ○ Availability of tuition data
  ○ Written explanation of tuition structure
  ○ Strategic plan outlining end goals
  ○ Solution for AP & dual-enrollment credits
  ○ Student representative to Audit and Finance Committee
Portait 2045

- Goals represent an improved University
- Why doesn’t this reflect what students want to see in the University?
  - How does an environmentally sustainable campus fit into the portrait?
    - Renewable energy? Recycling?
  - Why is there no mention of tuition structure or cost of attendance?
  - Why are women the only minority students mentioned?
  - No mention of infrastructure to support increases in enrollment
    - Housing? Transportation? Parking?
- Does it paint a portrait?
Questions
DATE: July 21, 2016

TO: Glenn D. Mroz, President  
David Reed, Vice President for Research

FROM: Samuel Casey, President, Undergraduate Student Government  
Joseph Heltsley, Vice President, Undergraduate Student Government  
Joshua Davis, Treasurer, Undergraduate Student Government  
Braeton Ardell, Secretary, Undergraduate Student Government

SUBJECT: Tuition Increase for the 2016-2017 School Year

Dear President Mroz and Dr. Reed,

First, we want to thank you for your time and attention to the issue of tuition increase. Your willingness to work with students shows your dedication to improve Michigan Tech. The USG officers held a conference call with Dr. Dave Reed, Julie Seppala, and Deborah Lassila to improve our understanding of the tuition increase. Through this call, we developed a better understanding of how the Executive Team justified the tuition raise and structure they recommended. That stated, we believe we speak for all students when we say we are no less frustrated by the situation.

We realize the budgeting process is complete for the 2016-2017 school year, but our conference call highlighted the need for increased dialogue between students and the administration, particularly concerning the tuition and budgeting process in following years. Undergraduate students are a large stakeholder in the University and must have a vote or voice in this process.

We understand the budgeting process involves weighing the negative impacts of increased costs to students against the benefits provided to students and the University by increased revenue. Considering this, we believe it would be in the best interest of students if the University had not raised tuition for any student by more than the state cap. If it is desired to increase the differential between different divisions or tiers, the top increase should have been set at the cap and others less. We do appreciate that Michigan Tech has never surpassed the state tuition restraint, but we believe that it would be more reasonable to be closer to the estimated inflation rate each year. We also do not want to take for granted the significant increase in Financial Aid for the coming year, but this is not available to all students.
Additionally, we request increased transparency from the University, especially with availability of tuition data. The email sent to students did not inform students that some of their tuitions would be raised by 6.9%, nearly triple estimated inflation. Tuition of the upper division has skyrocketed without a clear end in sight. By our calculations, Tier 3 tuition has increased by approximately 30% over 4 years. Due to difficulty obtaining this data, it is extremely difficult to assess. For this reason, we request that the University publish a spreadsheet of tuition rates online so that any student can easily look up tuition rates. The current “Cost of Attendance” webpage and the “University Fact Book” do not provide all desired data and make it difficult to see how tuition rates differ by division/tier and from year to year. We ask that historical data is published for at least the past ten years including: tuition rates for each division/tier, increase from the previous year, state tuition restraint cap, state appropriation changes, and average tuition rate/increase as reported to the state (all data should include Resident and Nonresident). Currently, it is nearly impossible to obtain all of this data.

Additionally, it would be helpful to provide an explanation of the tuition structure on the University website. The current tuition page is useful for students to figure out what rate they will pay in the coming year, so we don’t recommend removing this. However, supplementary information is needed so that students can understand why they are paying a particular rate.

Finally, we believe that it would be helpful for students to have some clear idea of the direction that tuition is going. We understand that it is desired for our tuition structure to more closely resemble University of Michigan’s tuition structure, but there is no clear strategic goal describing what that means. Students can only guess where the end of large tuition increases will be.

We realize there is a high return on investment for an education at Michigan Tech. While we do not take this for granted, we are concerned steadily rising tuition rates will soon price students out of being able to afford a Michigan Tech education. We understand that the administration works very diligently to budget both to create a world-class university and to keep tuition affordable, but more transparency and communication is needed.
Graduate Student Government of Michigan Tech

Presented by
William Lytle

October, 2016

Board of Trustees
Michigan Technological University
Event Updates

Increased program attendance
- 350+ at Social Events
- Developing strong relationships

3MT Presentations
- Finals took place this week
- Winners advance to Regional Competition

Advanced leadership
- Council members service on committees
- Conversation on goals and strategies

Improved continuity
- Fine tuning budgets
- Identifying collaborators
Graduate Student Concerns

Housing

The local area is under capacity to meet the current and future student enrollment. Issues are disproportionately born by first year international graduate students.

- Daniel Heights Waiting List
- Safety and Inclusion
- Security for Int’l Renters
- Accessibility

GSG Responses:
Creation of a committees, surveys, administrative meetings and forums to better understand needs and obstacles in Housing.
Graduate Student Concerns

Transportation

Conflicts between people walking, biking, and driving have increased. Shuttles to campus, businesses and housing do not fit student needs. Parking is unreliable and overfilled.

- Pedestrian Safety
- Bicycle Infrastructure
- Public Transit
- Ridesharing
- Parking

GSG Responses:
Working with Enterprise groups, student orgs, city officials and relevant MTU staff. Attending conferences and reviewing business models.
Proposed Bike Lane
Graduate Student Concerns

Sustainability

Progress toward sustainability goals is required to protect the quality of life of students, residents and visitors of the Keweenaw.

- Recycling
- Food waste
- Transportation
- Energy
- Development

GSG Response:
Call for Sustainability Director, and appointment of Student Coordinator. Dedication of volunteer time and energy to advance discussion on sustainability.
Advocacy

Collaboration Opportunity

Students have been involved with:
- Problem identification
- Data gathering and processing
- Solution development
- Financial planning

Graduate students and volunteers are interested in having more meaningful involvement in decision-making at the University.

Individuals within the University are amenable to developing solutions; however, they lack the resources and frameworks to initiate the projects proposed by students.
The Graduate Student Government requests that:

The Board of Trustees support inclusion of an explicit commitment to students, staff, faculty and community in the Strategic Plan or Portrait of 2045 to ensure a high quality of life for current and future stakeholders.

Including specific engagement on:

- Housing
- Transportation
- Sustainability
- Accountability and Transparency
Project Example

Douglas Houghton Hall

Goals
- Serve communication needs of community
- Build ESL Program
- Diversity and Inclusion
- Optimize DHH

Partners
- Pavlis Honors College
- ESL
- Alumni Relations
- Administration
- USG and GSG

Activities
- Learning communities
- Language, research and service
- Cultural events
- Culinary representation

Outputs
- Improved student experience
- Affinity groups
- Professional, academic and social development
- Engaged Alumni
University Senate Report

Presented to the Board of Trustees
October 14, 2016

Marty Thompson, President
University Senate
11 Senate approved Proposals

8 proposals approved by administration

- 5 curricular programs, including a minor in Leadership
- Evaluation Procedures for Department Chairs and School Deans
- Policy on Class Attendance
- Academic Calendar 2017-2018

3 proposals rejected by administration/being discussed

- Evaluation Procedure for the President
- Establish Liaisons in all Units Participating in Assessment
- Amendments to Final Exam Policy 602.1
Recommendations from (annual) reports

- **Ralph Hodek, Chair, Sabbatical Leave Committee**
  recommendations to improve collection of post-sabbatical reports. *Minutes 579.*

- **Audrey Mayer, Chair, CATPR**
  recommendations for improved communication and transparency. *Minutes 579.*

- **Jacob Guter, Fringe Benefits Committee**
  Discussed retirement plans and the TRIP program with Michigan & peer-institutions. *Minutes 574.* *Discussion in the benefits liaison group (BLG) about tuition reduction incentive program (TRIP).*
Invited Presenters

- **Michael Meyers**, Director CTL (IT, AIP)  Presenting 10/5

- **Jean Kampe**, Associate Provost. Undergraduate Programs Assessment.  
  *Not scheduled yet.*

- **Pushpa Murthy**, Dean, Graduate School. Graduate Programs Assessment.  
  *Not scheduled yet.*

- **Christopher Plummer**, Chair, Academic and Instructional Policy Committee presented a report on inclusion. (Christopher is now on the Diversity Council.)  

- **Ann Kitalong-Will**, Chair, Steering Committee, *Civility Statement*.

- **Ellen Horsch**, VP Administration. Parental Leave Policy.  
  *Not scheduled yet.*
Impact of presentations

1. **Recycling**: changing the campus to reflect a sustainable environment

2. **TRIP comparison study**: working on delivering benefits to employees
Key objectives

1. Reviewing the Compensation Strategy Task Force Report
2. Examination of benefits changes
3. Inculturate Assessment
4. Technology in the classroom
5. Journal and textbook costs
6. Find ways to give employees relief from rising cost of benefits/cost shifting.
IV. COMMITTEE REPORTS

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

B. AUDIT AND FINANCE COMMITTEE
   - Treasurer’s Report - Ms. Julie Seppala, Treasurer
   - External Auditor’s Report – Randy J. Morse, Andrews Hooper Pavlik

C. LEADERSHIP COMMITTEE
Provost’s Report

Jackie Huntoon
October 14, 2016
FY 2016 – Undergraduate Outcomes

• 1,110 Baccalaureate Degrees
  • 147 Cum Laude
  • 129 Magna Cum Laude
  • 50 Summa Cum Laude
• 63 Certificates

• Placement
  • 93.2% Total Placement (within six months of graduation)\(^1\)
  • 73.5% Full Time\(^2\)
  • 12.3% Graduate School\(^3\)
  • 7.5% Other Positions
  • 6.8% No placement\(^4\)

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\(^1\) Data from Career Services 2014-15 Annual Report (759 total placement out of 814 undergraduate respondents)
\(^2\) 598 out of 814 respondents
\(^3\) 100 out of 814 respondents
\(^4\) 55 out of 814 respondents
FY 2016 – Graduate Outcomes and Funding

• 502 Graduate Students Graduated (Highest Number Ever)
  • 416 Master’s
  • 86 PhD

• PhD Support
  • 33% Self
  • 28% External
  • 39% Internal

• Master’s Support
  • 87% Self
  • 6% External
  • 7% Internal
FY 2016 – Faculty and Researchers

- **341** T&TT Faculty
  - **111** Full Professor
  - **127** Associate Professor
  - **103** Assistant Professor
- **110** N-T&TT Faculty
  - **7** (Full, Assoc., Asst.) Professor
  - **37** Instructor
  - **54** Lecturer
  - **12** Professor of Practice
- **171** Researchers
  - **147** Research Profs, Scis, Engrs
  - **24** Post-Docs
- **T&TT Faculty Demographics**
  - **26.4%** Female
  - **22.3%** Domestic URM

Faculty and Researchers FY 03-16

- Tenured and Tenure Track Faculty
- Non-Tenure Track Faculty
- Research Staff
Fall 2015 – Faculty and Researchers

Public Higher-Research Universities
Fall 2014

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

Michigan Tech
Fall 2015

- Part-time non-TT: 12%
- Full-time non-TT: 16%
- Full-time T/TT: 72%

Source: Institutional Analysis (Integrated Postsecondary Education Data System (IPEDS))

Source: Institutional Analysis
FY 2017 – New Faculty

Tenured/Tenure-Track Faculty

• 13 New in Fall 2016
  • 2 School of Forest Resources and Environmental Sciences
  • 6 College of Engineering
  • 5 College of Sciences and Arts

Non-Tenure Track Professors, Instructors, Lecturers

• 11 New in Fall 2016
  • 1 School of Business and Economics
  • 6 College of Engineering
  • 4 College of Sciences and Arts
**Fall 2016 – Undergraduate Enrollment**

- **5,827 Undergraduate Students**
  - 1,381 First-Time Freshmen
  - 199 First-Time Transfers
  - 4,116 Returning
  - 131 Other

- **27.2 Average ACT Score (Freshmen)**
- **27.0% Female**
- **7.4% Domestic URM**
- **3.2% International**
- **< 1% Online**

![Undergraduate Enrollment Chart](chart.png)
Fall 2016 – Graduate Enrollment

- **1,441** Graduate Students
  - **904** Master’s
  - **514** PhD
  - **23** Non-Degree

- **26.6%** Female
- **4.3%** Domestic URM
- **60.7%** International
- **4.9%** Online
Dr. Feng Zhao (Biomedical Engineering) wins BMES Rising Star Award for regenerative heart tissue research

Bruce Lee
Recipient of the 2016 Young Investigator Research Award
Office of Naval Research

SMART, MOISTURE-RESISTANT ADHESIVE INSPIRED BY MARINE CHEMISTRY

Assistant Professor
Biomedical Engineering

Keat Ghee Ong
Recipient of the New Portage Health Foundation Endowed Professorship of Technological Innovations in Health

Associate Professor
Biomedical Engineering
One of the World’s 25 Most-Accessed Dissertations and Theses of 2 Million Full-Text Graduate Works

Dr. Antonio Velazquez
Civil Engineering Graduate
Dept. Civil & Environmental Engineering
Michigan Technological University
Advisor: Dr. Andrew Swartz

Dissertation Title: Model updating and structural health monitoring of horizontal axis wind turbines via advanced spinning finite elements and stochastic subspace identification methods.
Jerrid Burdue (Business): Winner of the national iOME Challenge
Proposal for improving the U.S. government retirement savings program.
Dr. Craig Friedrich was elected Fellow of ASME in recognition of his significant lifetime engineering accomplishments.

Dr. Nina Mahmoudian was featured as one of the 2016 Emerging Scholars by Diverse: Issues in Higher Education.

Dr. Mahdi Shahbakhti received the 2016 SAE Ralph R. Teetor Educational Award.
Thank you
Sponsored Program Summary
Unaudited FY16 Activities
October, 2016

David Reed
Vice President for Research
Outline

• Sponsored Awards, Unaudited FY16
• Research Expenditures, Unaudited FY16
• Intellectual Property/Commercialization, Unaudited FY16
• Corporate Sponsorship, Unaudited FY16
Sponsored Awards, Unaudited FY16

Sponsored Awards
Fiscal Year 2016
4th Quarter
Ended June, 30 2016
TOTAL: $51,661,818

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

FYTD 2015: 51
FYTD 2016: 63
## Sponsored Awards, Unaudited FY16

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposals Submitted FY '16 as of 06/30</th>
<th>Proposals Submitted FY '15 as of 06/30</th>
<th>Awards Received FY '16 as of 06/30</th>
<th>Awards Received FY '15 as of 06/30</th>
<th>Awards Received ($) FY '16 as of 06/30</th>
<th>Awards Received ($) FY '15 as of 06/30</th>
<th>Variance $</th>
<th>Variance %</th>
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<tr>
<td>NASA</td>
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<td>73</td>
<td>29</td>
<td>42</td>
<td>1,422,217</td>
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<td>National Science Foundation</td>
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<td>65</td>
<td>89</td>
<td>7,363,202</td>
<td>12,308,810</td>
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<td>55</td>
<td>43</td>
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<td>2,078,969</td>
<td>2,842,385</td>
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<td>US Department of Defense</td>
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<td>83</td>
<td>69</td>
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<td>1</td>
<td>2</td>
<td>1</td>
<td>208,945</td>
<td>51,224</td>
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<td>36</td>
<td>20</td>
<td>13</td>
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<td>793,904</td>
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<td>49</td>
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<td>14</td>
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<td>US Department of Transportation</td>
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<td>27</td>
<td>20</td>
<td>22</td>
<td>1,834,601</td>
<td>2,817,164</td>
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<td>Other Federal Agencies*</td>
<td>55</td>
<td>52</td>
<td>29</td>
<td>26</td>
<td>2,391,175</td>
<td>1,606,449</td>
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<td>292</td>
<td>334</td>
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<td>37,874,498</td>
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<td>State of Michigan</td>
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<td>37</td>
<td>28</td>
<td>35</td>
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<td>204</td>
<td>188</td>
<td>181</td>
<td>7,128,823</td>
<td>8,776,896</td>
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<td>Foreign</td>
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<td>16</td>
<td>15</td>
<td>857,054</td>
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<td>All Other Sponsors</td>
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<td>72</td>
<td>31</td>
<td>39</td>
<td>1,523,010</td>
<td>973,760</td>
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<td>932</td>
<td>555</td>
<td>604</td>
<td>44,195,415</td>
<td>51,721,103</td>
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<td>Gifts**</td>
<td>334</td>
<td>333</td>
<td>7,439,801</td>
<td>6,923,814</td>
<td>515,987</td>
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<td>Crowd Funding</td>
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<td>Grand Total</td>
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<td>932</td>
<td>916</td>
<td>966</td>
<td>$51,661,818</td>
<td>$58,680,019</td>
<td>-$7,018,201</td>
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**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  
FY16

<table>
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<tr>
<th>College/School/Division</th>
<th>FINAL</th>
<th>FINAL</th>
<th>Variance</th>
<th>%</th>
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<tr>
<td>Administration*</td>
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<td>2,368,505</td>
<td>284,266</td>
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<td>College of Engineering</td>
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<td>College of Science &amp; Arts</td>
<td>16,825,212</td>
<td>15,361,434</td>
<td>1,463,778</td>
<td>9.5%</td>
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<td>Pavlis Honors College</td>
<td>284,189</td>
<td>356,221</td>
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<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>7,076,343</td>
<td>6,870,541</td>
<td>205,802</td>
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<td>Michigan Tech Research Institute (MTRI)</td>
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<td>9,698,319</td>
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<td>School of Business &amp; Economics</td>
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<td>1,623,653</td>
<td>6,600</td>
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<td>School of Forest Resources &amp; Environmental Science</td>
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<td>5,771,264</td>
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<td>School of Technology</td>
<td>760,637</td>
<td>507,811</td>
<td>252,826</td>
<td>49.8%</td>
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<td><strong>Total</strong></td>
<td><strong>72,535,768</strong></td>
<td><strong>69,606,717</strong></td>
<td><strong>2,929,051</strong></td>
<td><strong>4.2%</strong></td>
</tr>
</tbody>
</table>

*Includes the Vice Presidents, Provost, CIO, Exec Director Financial Services & Operations and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.
Research Expenditures, Unaudited

FY16

$ 72.5 MM
+ 4.2 %
# Intellectual Property, Unaudited FY16

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2015</th>
<th>+/- %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received$^2$</td>
<td>32</td>
<td>33</td>
<td>-3%</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>111</td>
<td>116</td>
<td>-4%</td>
</tr>
<tr>
<td>Patents Filed or Issued$^2$</td>
<td>17</td>
<td>17</td>
<td>0%</td>
</tr>
<tr>
<td>License Agreements</td>
<td>20</td>
<td>11</td>
<td>82%</td>
</tr>
<tr>
<td>Gross Royalties$^2$</td>
<td>301,120</td>
<td>255,051</td>
<td>18%</td>
</tr>
</tbody>
</table>
Corporate Sponsorship, Unaudited F16

Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2016
4th Quarter
Ended June 30, 2016
TOTAL: $12,543,545

- Defense & Space: 1,687,208
- Energy: 735,900
- Environmental: 129,959
- Health: 381,552
- Industrial Engineering: 206,520
- IT Services: 611,886
- Mining & Metals: 376,258
- Other: 623,048
- Technology: 343,036

- Automotive: 4,834,597
- Business & Economics: 191,355
- Chemical: 608,002
- Civil: 824,263
- Consumer Products: 989,961

Michigan Technological University
Fall 2016 Enrollment Report
Board of Trustees
October 14, 2016
Fall Enrollment 1965-2016

Distance Learning
On Campus

- 1,000
- 2,000
- 3,000
- 4,000
- 5,000
- 6,000
- 7,000
- 8,000
- 9,000

- 1965
- 1966
- 1967
- 1968
- 1969
- 1970
- 1971
- 1972
- 1973
- 1974
- 1975
- 1976
- 1977
- 1978
- 1979
- 1980
- 1981
- 1982
- 1983
- 1984
- 1985
- 1986
- 1987
- 1988
- 1989
- 1990
- 1991
- 1992
- 1993
- 1994
- 1995
- 1996
- 1997
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016

7,268
### New Student Applications

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG applications</td>
<td>6,106</td>
<td>6,367</td>
<td>+261/4%</td>
</tr>
<tr>
<td>Grad applications</td>
<td>4,847</td>
<td>4,921</td>
<td>+74/3%</td>
</tr>
<tr>
<td>Total</td>
<td>10,953</td>
<td>11,288</td>
<td>+335/3%</td>
</tr>
</tbody>
</table>
First Year Undergraduate Student Enrollment

- New Freshmen
- Average ACT Composite Score
Total Enrollment by UG/G

- **Graduate**: 831, 896, 916, 912, 984, 1206, 1256, 1303, 1322, 1358, 1442, 1521, 1441
- **Undergraduate**: 5709, 5614, 5634, 5846, 6034, 5942, 5720, 5731, 5625, 5621, 5662, 5717, 5827

- **% Total Grad**

Domestic Student Diversity

- Pacific Islander
- African American Non-Hispanic
- Hispanic American
- Asian American
- American Indian
- Multiracial

Domestic underrepresented percentage
Retention Rate 2004-2015
Michigan Tech Degree Production 1889-2016
FY 17 Funds Raised by Category
As of 9/20/16

Total Actual: $28.39 million
Total Goal: $35 million
Total Funds Raised FY 2009 - 2017
As of 9/20/16

(IN MILLIONS)
Thank you
Overview

- Condensed Statement of Net Position
- Condensed Statement of Revenues, Expenses & Changes in Net Position
- Current Fund Projected Revenues & Expenses
- Cash Balances Chart
Balance Sheet
Condensed Statement of Net Position
as of June 30, 2016
(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>$ 42,156</td>
<td>$ 3,181</td>
<td>$ 45,337</td>
</tr>
<tr>
<td>Noncurrent Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>236,693</td>
<td>-</td>
<td>236,693</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>70,747</td>
<td>130,991</td>
<td>201,738</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$ 349,596</td>
<td>$ 134,172</td>
<td>$ 483,768</td>
</tr>
<tr>
<td><strong>Deferred Outflows of Resources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$ 4,642</td>
<td>-</td>
<td>$ 4,642</td>
</tr>
<tr>
<td><strong>Total Deferred Outflows of Resources</strong></td>
<td>$ 4,642</td>
<td>-</td>
<td>$ 4,642</td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$ 31,084</td>
<td>$ 927</td>
<td>$ 32,011</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>154,692</td>
<td>4,838</td>
<td>159,530</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>$ 185,776</td>
<td>$ 5,765</td>
<td>$ 191,541</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>$ 350</td>
<td>-</td>
<td>$ 350</td>
</tr>
<tr>
<td><strong>Total Deferred Inflows of Resources</strong></td>
<td>$ 350</td>
<td>-</td>
<td>$ 350</td>
</tr>
<tr>
<td><strong>Net Position</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$ 155,580</td>
<td>-</td>
<td>$ 155,580</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>12,532</td>
<td>128,407</td>
<td>140,939</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td>$ 168,112</td>
<td>$ 128,407</td>
<td>$ 296,519</td>
</tr>
</tbody>
</table>
### Income Statement

Condensed Statement of Revenues, Expenses and Changes In Net Position

As of June 30, 2016

(unaudited in thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Revenues</strong></td>
<td></td>
</tr>
<tr>
<td>Student Tuition and fees</td>
<td>$ 91,129</td>
</tr>
<tr>
<td>Grants and contracts</td>
<td>46,215</td>
</tr>
<tr>
<td>Educational Activities</td>
<td>5,603</td>
</tr>
<tr>
<td>Department Activities</td>
<td>9,646</td>
</tr>
<tr>
<td>Student Residence fees</td>
<td>18,531</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td><strong>$ 171,124</strong></td>
</tr>
<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$ 121,856</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>38,829</td>
</tr>
<tr>
<td>Student financial support</td>
<td>6,438</td>
</tr>
<tr>
<td>Supplies, Services &amp; other</td>
<td>71,922</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td><strong>$ 239,045</strong></td>
</tr>
<tr>
<td><strong>Non Operating Revenues</strong></td>
<td><strong>$ 62,290</strong></td>
</tr>
<tr>
<td><strong>Other Revenues</strong></td>
<td><strong>$ 7,765</strong></td>
</tr>
<tr>
<td><strong>Change in Net Position</strong></td>
<td><strong>$ 2,134</strong></td>
</tr>
<tr>
<td><strong>Net Position, Beginning</strong></td>
<td><strong>$ 294,385</strong></td>
</tr>
<tr>
<td><strong>Net Position, End</strong></td>
<td><strong>$ 296,519</strong></td>
</tr>
</tbody>
</table>
## FY2016 Current Funds

### Projected Revenues, Expenses & Change in Net Assets

(unaudited in thousands)

<table>
<thead>
<tr>
<th></th>
<th>Original Projection</th>
<th>June Unaudited</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenues</strong></td>
<td>$ 280,519</td>
<td>$ 280,264</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td>$(280,105)</td>
<td>$(280,373)</td>
</tr>
<tr>
<td><strong>Change in Net Assets</strong></td>
<td>$ 414</td>
<td>$(109)</td>
</tr>
</tbody>
</table>

**Note:** Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.
Cash Balance by Month for Fiscal Years 2015-2017

2015
2016
2017
$39MM

$0
$10,000,000
$20,000,000
$30,000,000
$40,000,000
$50,000,000
$60,000,000

Michigan Tech
V. 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. 2017 Meeting Dates
V-A. APPROVAL OF MINUTES

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal session of August 4, 2016, as distributed to the Board.
V-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 23, 2016

Subject: Candidates for Degrees – Conferral Term 201605

The attached list of candidates for degrees, beginning with Kathryn Elizabeth Van Susante and ending with Ran Duan, 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
### Michigan Technological University

**Degrees Awarded for Conferral Term 201605**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Name</th>
<th>Honors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts in Theatre and Electronic Media Performance</td>
<td>Kathryn Elizabeth Van Susante</td>
<td>Summa Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Arts in English</td>
<td>Lillian Antonia Bonen</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts in Sound Design</td>
<td>Andrew John Diehl</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Erik Colton Doering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daniel Anthony Grayvold</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kenneth F Arndt</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Accounting</td>
<td>James Philip Sturos</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Kendall E Ward</td>
<td>Summa Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Science in Finance</td>
<td>Chenxi Wu</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Management</td>
<td>Cedric William Kennedy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emilia Tenizbaeva</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sirawit Yumuang</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Biomedical Engineering</td>
<td>Nicholas S Brajak</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Civil Engineering</td>
<td>Xinyuan Fu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Margaret Mae Kloote</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jacob William Daniel Logan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paul Christopher Bristol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Travis R Feenstra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nicholas David Oshaben</td>
<td></td>
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<tr>
<td></td>
<td>Noah J Payne</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jonathan Patrick Winegar</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Chemical Engineering</td>
<td>Kyle Richard Bronner</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael Martin Fassbender</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zachary Dalton Otis</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Computer Engineering</td>
<td>Zachary Eaton Arthur</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paul Christopher Bristol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Travis R Feenstra</td>
<td></td>
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<tr>
<td></td>
<td>Nicholas David Oshaben</td>
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<tr>
<td></td>
<td>Noah J Payne</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jonathan Patrick Winegar</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Electrical Engineering</td>
<td>Jared Raymond Bender</td>
<td></td>
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<tr>
<td></td>
<td>Andrew Jamar Jones</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nicholas A Karch</td>
<td></td>
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<tr>
<td></td>
<td>Jacob Robert Marshall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Patrick Alan Rice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Charles Quincy Stone</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Environmental Engineering</td>
<td>Hayden Matthew Henderson</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Geological Engineering</td>
<td>Laura Claire O'Connor</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Mechanical Engineering</td>
<td>Michael Robert Baskins</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adam Joseph Goudreau</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Travis Alexander Graham</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terry M Greene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Riley Joseph Hart</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Luke C Heller</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tessa Rae Jagger</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lawson Patrick Julio</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kevin M Lueck</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sierra Kay Lunsford</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Owen Richard Martilla</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bethany L Schaefer</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Materials Science and Engineering</td>
<td>Emily Louise LaPine*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nicholas K Milicia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael Crites Oyervides</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Forestry</td>
<td>Evan Paul Post</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Anthropology</td>
<td>Marc Alvin Hoffman</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Biological Sciences</td>
<td>Autumn Marie Channey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dallas Naomi Linville</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Madison Kay Verbeke</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Chemistry</td>
<td>Rachel Ann Wiltenburg</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Computer Science</td>
<td>Brian Paul Fisk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Joshua George Barker</td>
<td></td>
</tr>
</tbody>
</table>
Michigan Technological University
Degrees Awarded for Conferral Term 201605

Bachelor of Science in Exercise Science
Rex Baumeister
Jonathan Patrick Faron
Ryan J Fenton-Garcia
Garrett Michael Myers - Cum Laude
Andrew J Radford
Bradley David Ross

Bachelor of Science in Audio Production and Technology
Katherine Michelle Miller
Zachery J Strauss

Bachelor of Science in Theatre and Entertainment Technology
Adam Matthew Marshall

Bachelor of Science in Mathematics
Jacob Allen Heilig

Bachelor of Science in Biochemistry and Molecular Biology
Kyle Stephen Glasper
Trenton Peter Post

Bachelor of Science in Medical Laboratory Science
Alyona Zhuravlyova

Bachelor of Science in Psychology
Micah Daniel Kempf
Mathew Tyler Kloepfer
Steven Henry George Tracey

Bachelor of Science in Software Engineering
Mitchell Dean Tahtinen

Bachelor of Science in Statistics
Kyle Matthew Chomic

Bachelor of Science in Electrical Engineering Technology
Zion P Schaub
Shivam Bhatti

Bachelor of Science in Mechanical Engineering Technology
Paul Henry Kuoppala
Joseph Tamas Latendresse
Jari William Sague
Kristen Julia Therrian
Feng Xu
Lu Yang

Bachelor of Science in Psychology
Juelun Wang
Brodrick Dulane Coval

Bachelor of Science in Software Engineering
Brian William Doughty
Jing Feng
Zachary David Fredrickson

Master of Business Administr. in Business Administration
Yingxin Wu
Wenyue Xu
Naixin Xu
Chang Zhang

Master of Science in Biomedical Engineering
Sterling Micaiah Prince

Master of Science in Civil Engineering
Sri Dada Aditya Vardhan Emani
Amane Amani Esami Kenarsari
Andrew Barry Groeneveld
Thomas Justin Kendrick

Master of Science in Electrical Engineering
Ali Aghdasi
Greeshma Akash

Master of Science in Mechanical Engineering Technology
Rutuja Satish Bhalchandra
Saurabh Bhatia
Manikanta Danda

Master of Science in Environmental Engineering
Giovanca Fenocchio Azzi
Shanta Guni
Thierry Njiena Ngassa
Joseph Anthony Peterson
Mashad Uddin Saleh
Ashish Pasha Sheikh
Nima Taherkhani
Jaya Raghavendra Arun Kumar Yellajosula

Master of Science in Environmental Engineering Science
Rebecca Lane Green
Mallika Khare
Sara M Klemm
Rebecca Chandra Midkiff
Jasmine Eve Miller

Master of Science in Geology
Hongyi Lin

Master of Science in Geology
Nicole Marie Slagle

Master of Science in Geology
Teresa Munoz Martinez
Formal Session of the Board of Trustees - V. Consent Agenda

Michigan Technological University
Degrees Awarded for Conferral Term 201605

Master of Science in Geology
- Lindsay Ann Davis
- Jordan Anthony Mayer
- Ashley E Miller
- Jordan Paul Van Sickle

Master of Science in Geophysics
- Charles Isaac Breithaupt
- Haitao Cao
- Musa Cetin
- Adnan Djefal
- Emre Doguturk
- Umit Serhan Inan
- Fatmanur Karaman
- Ceyda Karatas
- Omer Emre Uygun
- Mengchu Xiao

Master of Science in Mechanical Engineering
- Jayant Kumar Arora
- Sharayu Subhash Bhasme
- Abhishek Sai Eri Pradeep
- Abayomi A Famuyiwa
- Saksham Gupta
- Erik Arthur Gustafson
- Hampapur Raghavan Ranganath Vedanth Iyengar
- Rohan Milind Kalurkar
- Kaushik Kannan
- Naga Nithin Teja kondipati
- Zongyue Liu
- Reem Sadruddin Merchant
- Grant Joseph Ovist
- Rohit Rajabha Pawale
- Abhijith Geo Philip
- Lakshmi Narasimha Sai Dattatreya Ramaraju
- Nagendra Gautam Tanikella
- Abhishek Thyagarajan
- Saumitra Verma
- Arya Yazdani
- Xiucheng Zhu

Master of Science in Materials Science and Engineering
- Rafael E Gil-Figueroa
- Prasad Pramod Soman
- Yan Xu

Master of Science in Forest Molecular Genetics and Biotechnology
- Mehmet Acet

Master of Science in Applied Cognitive Science and Human Factors
- Hannah Bosseler
- Alexander Simon Van Der Merwe

Master of Science in Biological Sciences
- Diane Marie Nelson
- Abhilash Kantamneni
- Timothy Ryan Ward

Master of Science in Computer Science
- Caycie Nicole Bray
- Kathryn Rose Carter
- Abhilash Kantamneni

Master of Science in Kinesiology
- Dilek Erkmen
- Anna Elizabeth Pascoe

Master of Science in Mathematical Sciences
- Mustafa Aggul
- Teresa Ann Wilson

Master of Science in Physics
- Tugce Kink
- Timothy A Van Wagner

Master of Science in Medical Informatics
- Kosar Khakasari
- Abdullahi Muhammad Salim
- Zigeng Wang

Master of Science in Biomedical Engineering
- Marco La Manna
- Yang Liu

Master of Science in Civil Engineering
- Lauren N Schaefer
- Jephias Gwamuri

Master of Science in Electrical Engineering
- Bing Han

Master of Science in Geological Engineering
- Jephias Gwamuri

Master of Science in Materials Science and Engineering
- Jephias Gwamuri

Michigan Technological University
Degrees Awarded for Conferral Term 201605

Amberlee Sue Haselhuhn
Helen Joelle Rau
Bas Wijnen
Yifei Yuan
Chenlong Zhang
Guy Charles Hembroff
Amer Naser Tahat

Doctor of Philosophy in Engineering - Computational Science and Engineering

Hasti Asayesh Ardakani
Sweetu B Patel
Meysam Razmara
Craig David Reynolds
Wei Zhang

Doctor of Philosophy in Forest Science

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

Robert Arnold Larson
Shreyas Kumar
Ashima Vaidya
Adrian Gabriel Pastine
Ran Duan

*Addendum to Conferral: Degree awarded in term 206101

Michigan Technological University  Student Records and Registration   23-SEP-16  10.32.00 AM
V-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, 2016 through September 30, 2016
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY17 YTD Total</th>
<th>FY16 YTD Total</th>
<th>FY16 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>353,956</td>
<td>4,357,850</td>
<td>10,872,520</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>25</td>
<td>17,915</td>
<td>312,439</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>354,848</td>
<td>325,071</td>
<td>1,762,765</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>26,023,000</td>
<td>9,277,631</td>
<td>11,821,099</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>259,591</td>
<td>261,232</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>1,713,166</td>
<td>460,485</td>
<td>10,150,670</td>
</tr>
<tr>
<td>Corporations</td>
<td>447,124</td>
<td>423,133</td>
<td>1,606,009</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>91,388</td>
<td>102,176</td>
<td>325,300</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>6,347</td>
<td>344,560</td>
<td>2,512,825</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>29,249,446</strong></td>
<td><strong>15,570,053</strong></td>
<td><strong>40,855,222</strong></td>
</tr>
</tbody>
</table>

-- A planned gift of $25 million was documented on September 19, 2016 from a donor who has requested to remain anonymous.
-- Except for the Annual Fund, all totals include outright gifts and the full amount of new pledge commitments.
-- Annual Fund includes cash from prior year pledges in addition to outright current year gifts and new pledge commitments due current year.
-- An individual’s gifts given through another source (i.e. family foundation or closely held business) are credited to the individual.

09/30/2016  09:09
V-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 16, 2016 – September 17, 2016)

### 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>Beck, Donald R.</td>
<td>Faculty</td>
<td>Physics</td>
<td>Professor</td>
<td>12/01/80</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Bilich, Linda S.</td>
<td>Staff</td>
<td>Financial Services &amp; Operations</td>
<td>Financial Associate</td>
<td>07/01/12</td>
<td>09/02/16</td>
</tr>
<tr>
<td>Jayaraman, Gopal</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Professor</td>
<td>03/06/84</td>
<td>08/19/16</td>
</tr>
<tr>
<td>Johnson, Mark T.</td>
<td>Staff</td>
<td>Merchandising Operations</td>
<td>General Manager, Merchandising Operations</td>
<td>04/09/84</td>
<td>08/05/16</td>
</tr>
<tr>
<td>Lewandowski, Dennis T.</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Senior Lecturer</td>
<td>09/03/91</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Pletka, Bruce J.</td>
<td>Faculty</td>
<td>Materials Science and Engineering</td>
<td>Professor</td>
<td>10/11/77</td>
<td>06/30/16</td>
</tr>
<tr>
<td>Vable, Madhukar</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>11/19/84</td>
<td>08/01/16</td>
</tr>
<tr>
<td>Vilmann, Carl R.</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>08/28/79</td>
<td>08/12/16</td>
</tr>
</tbody>
</table>

### OFF-PAYROLL

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakiras, Spiridon</td>
<td>Faculty</td>
<td>Computer Science</td>
<td>Associate Professor</td>
<td>08/17/15</td>
<td>08/14/16</td>
</tr>
<tr>
<td>Blair, Julia A.</td>
<td>Staff</td>
<td>Social Sciences</td>
<td>Project Coordinator</td>
<td>06/01/15</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Blank, Jeffrey F.</td>
<td>Staff</td>
<td>Information Technology</td>
<td>Senior Network Administrator II</td>
<td>12/14/97</td>
<td>08/24/16</td>
</tr>
<tr>
<td>Cairns, Maryann R.</td>
<td>Faculty</td>
<td>Social Sciences</td>
<td>Assistant Professor</td>
<td>08/17/15</td>
<td>08/15/16</td>
</tr>
<tr>
<td>Choi, Seokwoo</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Visiting Assistant Professor</td>
<td>08/18/14</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Gao, Chunming</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Assistant Professor</td>
<td>12/12/05</td>
<td>08/14/16</td>
</tr>
<tr>
<td>Gupta, Mahesh</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Professor</td>
<td>08/29/94</td>
<td>08/11/16</td>
</tr>
<tr>
<td>Heinonen, Randy P.</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Director, Athletic Partnerships &amp; Annual Giving</td>
<td>02/12/06</td>
<td>07/29/16</td>
</tr>
<tr>
<td>Hoppe, Paul D.</td>
<td>Staff</td>
<td>Corporate Partnerships</td>
<td>Associate Director, Research &amp; Industry Development</td>
<td>05/11/15</td>
<td>08/05/16</td>
</tr>
<tr>
<td>Hutula, Ronald P.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Electrician</td>
<td>10/07/02</td>
<td>09/02/16</td>
</tr>
<tr>
<td>Khan, Muhammad A.</td>
<td>Faculty</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/17/15</td>
<td>09/13/16</td>
</tr>
<tr>
<td>Lehman, William E.</td>
<td>Staff</td>
<td>Ticketing</td>
<td>Office Assistant 3</td>
<td>08/30/11</td>
<td>07/23/16</td>
</tr>
<tr>
<td>McMillan, Travis J.</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Shuttle Bus Driver</td>
<td>01/17/13</td>
<td>08/26/16</td>
</tr>
<tr>
<td>Mouw, Colleen B.</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Assistant Professor</td>
<td>08/20/12</td>
<td>08/12/16</td>
</tr>
<tr>
<td>Nankervis, William C.</td>
<td>Staff</td>
<td>Information Technology</td>
<td>Assistant Director of Telecommunications</td>
<td>04/01/12</td>
<td>09/14/16</td>
</tr>
<tr>
<td>Park, James R.</td>
<td>Staff</td>
<td>Memorial Union</td>
<td>Food Service Helper</td>
<td>08/28/16</td>
<td>08/22/16</td>
</tr>
<tr>
<td>Quinby, Patrick D.</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Laboratory/Demonstration Coordinator</td>
<td>01/08/07</td>
<td>07/29/16</td>
</tr>
<tr>
<td>Rickard, Courtney A.</td>
<td>Staff</td>
<td>Center for Pre-College Outreach</td>
<td>Coordinator, Center for Pre-College Outreach</td>
<td>06/19/12</td>
<td>09/03/16</td>
</tr>
<tr>
<td>Tyrrell, Colin W.</td>
<td>Staff</td>
<td>Great Lakes Research Center</td>
<td>Marine Operations Specialist</td>
<td>09/01/13</td>
<td>08/06/16</td>
</tr>
<tr>
<td>Valenzuela, John.</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Senior Research Scientist I</td>
<td>01/11/10</td>
<td>07/30/16</td>
</tr>
<tr>
<td>Viguier, Audrey S.</td>
<td>Faculty</td>
<td>Humanities</td>
<td>Lecturer</td>
<td>08/18/14</td>
<td>08/14/16</td>
</tr>
<tr>
<td>Wagenbrenner, Joseph W.</td>
<td>Faculty</td>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>Assistant Professor</td>
<td>08/19/13</td>
<td>08/12/16</td>
</tr>
</tbody>
</table>
V-E. 2017 MEETING DATES

The following meeting dates are presented for approval.

Friday, February 24, 2017
Friday, April 28, 2017 (Commencement – Saturday, April 29)
Thursday, August 3, 2017 (Alumni Reunion)
Friday, October 20, 2017 (Homecoming)
Friday, December 15, 2017 (Commencement – Sat., December 16)

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

A. Employee Recognition
B. Honorary Degree
C. Board of Trustees Silver Medal
D. Melvin Calvin Medal of Distinction
E. Five-Year State Capital Outlay Plan & FY2018 Capital Project Request
F. Board of Trustees Policy 12.2. Building and Property Rules and Regulations
VI-A. EMPLOYEE RECOGNITION

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

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

1.) Donald R. Beck – 36 years of service
2.) Bruce J. Pletka – 39 years of service
3.) Carl R. Vilmann – 37 years of service
VI-B. HONORARY DEGREE

The Administration is recommending the Mr. Keith Creagh be awarded an Honorary Doctorate of Philosophy degree.

Keith Creagh is Director of the Michigan Department of Natural Resources. He was appointed director in July 2012 after serving as director of the Michigan Department of Agriculture and Rural Development (MDARD) since January 2011. Mr. Creagh also served as interim Director for the Department of Environmental Quality for a brief period this past year.

Mr. Creagh’s service with state government began in 1974 and has included a wide range of positions with MDARD during his tenure, including land use deputy director with the Departments of Natural Resources and MDARD, where he coordinated a multi-agency implementation plan in response to the recommendations from the Governor-appointed Michigan Land Use Leadership Council. He has provided leadership for the Farm Bill and conservation programs, which brought together conservation organizations, state and federal agencies, and local conservation districts to establish conservation practices in the state. His background also includes working closely with stakeholder groups, federal agencies, the state legislature and U.S. Congress.

Keith Creagh has a bachelor of science degree in forestry from Michigan Tech. He has been a member of the Michigan Tech Forestry Advisory Board; has been awarded the Forestry Outstanding Alumni Award and has been inducted into the Forestry Honor Academy.

Mr. Creagh will be the Fall Commencement speaker.

RECOMMENDATION: That the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. Keith Creagh.
VI-C. BOARD OF TRUSTEES SILVER MEDAL

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

The Administration is recommending that the Board of Trustees Silver Medal be awarded to Mr. John L. Drake and Mr. Norbert J. Verville, Sr.

John Drake earned a bachelor’s degree in mechanical engineering from Michigan Tech as well as a master’s degree in business administration. He worked for General Motors and Packard Electric before founding Drake Manufacturing in 1972. Drake Manufacturing manufactures grinders and provides remanufacturing and CNC retrofitting of thread grinders, cylindrical grinders and surface grinders. He has served as a director of the Michigan Tech Fund and is a member of the National Society of Professional Engineers, a Michigan Tech Fund Life Trustee, an Alumni Association Life Member and an Alumni Association Golden M Member. Mr. Drake was inducted into the Michigan Tech ME-EM Academy in 2001.

RECOMMENDATION: That the Board of Trustees approves the awarding of the Board of Trustees Silver Medal to Mr. John L. Drake.

Norbert Verville earned a bachelor’s degree in business administration from Michigan Tech. He began his career with Bucyrus-Erie as a cost accountant and retired from the company as Vice President of Finance and Treasurer. He then went on to work for Impact Engineering Solutions Inc. as Vice President of Operations. Mr. Verville is a Michigan Tech Fund Life Trustee having served many years on the Investment and Finance Committee and he is also an Alumni Association Golden M Member. He is a past member of the Applied Portfolio Advisory Board and School of Business National Advisory Board. He was inducted into the Michigan Tech Business Academy in 1994.

RECOMMENDATION: That the Board of Trustees approves the awarding of the Board of Trustees Silver Medal to Mr. Norbert J. Verville, Sr.
VI-D. MELVIN CALVIN MEDAL OF DISTINCTION

The Melvin Calvin Medal of Distinction is the highest honor bestowed on individuals who have exhibited truly distinguished professional and personal accomplishments and who have been associated with the University. The administration is recommending Mr. John Opie for the prestigious Melvin Calvin Medal of Distinction.

John Opie graduated from Michigan Tech with a bachelor’s degree in Metallurgical Engineering in 1961. He delivered Tech’s commencement address in 1987 and again in 2001, receiving Honorary Doctorates in Engineering and Business. He spent most of his career with General Electric, retiring in 2000 as vice chairman/executive director.

Mr. Opie has been awarded the Board of Trustees Silver Medal and Distinguished Alumni Award. He is a Michigan Tech Fund Life Trustee, Alumni Association Life member, Alumni Association Golden M Member and a member of the Materials Science and Engineering Academy. In 2009 he was inducted into the Michigan Tech Sports Hall of Fame as he has always been a passionate fan and supporter of Michigan Tech athletics – especially hockey.

John Opie has demonstrated his commitment to Michigan Tech’s students time and time again through his generous gifts.

RECOMMENDATION: That the Board of Trustees awards the Melvin Calvin Medal of Distinction to Mr. John Opie.
VI-E. FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND FY2018 CAPITAL PROJECT REQUEST

The Five-Year State Capital Outlay Plan and FY2018 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 FY2018 Capital Project Request to be submitted to the State of Michigan.
### Five-Year State Capital Outlay Plan and FY 2018 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H-STEM Engineering and Health Technologies Complex – Phase I</td>
<td>63,000</td>
<td>45,000</td>
<td>$39,600</td>
<td>$29,700</td>
<td>$9,900</td>
<td>2018/2021</td>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
</tbody>
</table>

### Capital Projects Description

1. **H-STEM Engineering and Health Technologies Complex - Phase I**
   
The H-STEM engineering and health technologies complex will support Michigan Tech’s integrated educational programs that apply engineering and science to problems related to human health. Michigan Tech’s technological niche allows it to contribute to health-related research, development, and education for its students by developing therapeutic devices, instruments, sensors, and preventative strategies. Research is currently supported by the American Heart and Lung Associations, Gerber Foundation, Portage Health Foundation, National Institutes of Health, and National Science Foundation (among others). The 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 meet current industry standards for safe operation and the training of students. The 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 cost of $39,600,000 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. Research and educational efforts made possible by this complex will complement and add value to activities at other universities as well as care providers throughout the state.

2. **Integrated Student Maker Spaces**
   
   Maker Spaces are places that engage students (and faculty & staff) of all disciplines in collaborative design and prototyping activities. Michigan Tech’s vision for a Maker Space is a central hub of design and innovation; a space that will inspire and support creativity and experiential learning. The Maker Space environment will allow students to design, develop and prototype their ideas through access to a wide range of tools and equipment. Mentorship, collaboration and synergy will uniquely define this space. The total project cost is estimated at $27,000,000 and will include new construction of a central facility, and expansion and renovation of spaces within an existing building.

3. **H-STEM Engineering and Health Technologies Complex – Phase II**
   
   Phase II of the H-STEM engineering and health technologies complex will include a newly constructed facility and renovation of existing facilities. Phase II will further enable Michigan Tech’s growing research and education programs in advanced manufacturing, particularly as related to human-centered engineering and medical devices. 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. Several advancements in manufacturing are on the cusp of disrupting the processes currently employed. Additive manufacturing is poised to dramatically change how products are made, and changes will cascade upstream to impact product designs. Engineering education will be redefined. The 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 continue to create jobs, produce leaders for industries in Michigan, and support University/industry partnerships. The Phase II project will strategically position Michigan Tech to contribute to the growth of high-tech innovation and manufacturing throughout the State. The total project cost is estimated at $74,200,000.
VI-F. POLICY 12.2. BUILDING AND PROPERTY RULES AND REGULATIONS

It is being recommended that this policy be revised to broaden the definition of mobility devices that are not allowed to be brought into university buildings. This proposed revision aligns policy with current practice, and further enhances our safety efforts.

RECOMMENDATION: That the Board of Trustees amends policy 12.2. Building and Property Rules and Regulations as presented.
Revised Item 8 as follows:

8. **Bicycles, unicycles, scooters, skateboards, roller or in-line skates, or any other human powered or electrically or mechanically powered wheeled or hovering recreational personal transport or mobility devices, except for personal assistive mobility devices used by a disabled person, shall not be brought into University buildings or ridden, stored, or parked in corridors, stairwells, laboratories, offices, classrooms, or buildings other than in those designated areas in student housing facilities.**

The amended policy shall read as follows:

12.2 Building and Property Rules and Regulations

1. Smoking and all tobacco use is prohibited except where approval is granted by the Vice President for Administration.

2. Use or possession of alcoholic beverages is prohibited, unless specifically approved in writing by the President, in accordance with the policy of the Board of Trustees on alcoholic beverages.

3. Solicitation, advertising, or sales on property owned or controlled by Michigan Technological University is prohibited unless authorized by the Vice President for Administration. The exceptions to this are:
   1. Advertising is permitted only on designated bulletin boards, as permitted by, or in other locations, as authorized by the manager of the building in which the advertising occurs.
   2. Student organizations registered with the Vice President for Student Affairs and Advancement may sell tickets or conduct limited sales of goods, advertise, solicit, and use grounds as authorized by the manager of the building or grounds in or on which the activity occurs.

4. Activities or announcements at Michigan Technological University events shall have the prior written approval of the Vice President for Administration or a delegated representative, with the following exceptions:
   1. Announcements regarding the operation of a facility may be authorized by the manager of the building or grounds on which the announcements are made.
   2. Announcements regarding traffic, health, or safety may be authorized by the Department of Public Safety and Police Services.
3. Announcements relating to the game or event in progress may be made over the public address system by the game announcer providing such announcements are appropriate to the situation and in good taste.

5. Distribution of handbills or other printed material is permitted only in designated areas.

6. Unruly behavior will not be tolerated and may be cause for expulsion from the facility.

7. For reasons of health and sanitation, cats, dogs, birds, or other pets or animals are prohibited except as authorized by the Vice President for Administration. The exceptions to this are:
   1. Animals owned or maintained by Michigan Technological University for educational or research purposes after receiving the approval of such facilities by the Provost and Vice President for Academic Affairs.
   2. Animals and aquariums may be kept in University housing facilities after receiving the approval from the Vice President for Student Affairs and Advancement.
   3. Guide, leader, hearing or service animals trained to perform the work or task required by the user's disability when used by a qualified individual with a disability in compliance with State or Federal Law.

8. Bicycles, unicycles, scooters, skateboards, roller or in-line skates, or any other human powered or electrically or mechanically powered wheeled or hovering recreational personal transport or mobility devices, except for personal assistive mobility devices used by a disabled person, shall not be brought into University buildings or ridden, stored, or parked in corridors, stairwells, laboratories, offices, classrooms, or buildings other than in those designated areas in student housing facilities.

9. This policy shall be administered in accordance with rules and procedures established by the Vice President for Administration.

This Policy constitutes a Rule and/or Regulation pursuant to MCL 4.201 et seq. and MCL 752.581 et seq.
VII. INFORMATIONAL ITEMS

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

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

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>6/30/2016</th>
<th>8/31/2016</th>
<th>Change</th>
<th>Fiscal-Year Investment Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Money Market Fund</td>
<td>$234,115</td>
<td>$267,076</td>
<td>$32,961</td>
<td>0.0%</td>
</tr>
<tr>
<td>Equity Funds:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delaware Value Fund</td>
<td>1,480,858</td>
<td>1,563,951</td>
<td>83,093</td>
<td>0.5%</td>
</tr>
<tr>
<td>Vanguard Extended Market Index Fund</td>
<td>2,278,142</td>
<td>2,421,999</td>
<td>143,857</td>
<td>6.3%</td>
</tr>
<tr>
<td>Vanguard 500 Index Fund</td>
<td>8,575,705</td>
<td>8,903,837</td>
<td>328,132</td>
<td>3.8%</td>
</tr>
<tr>
<td>Total Equity Funds</td>
<td>12,334,705</td>
<td>12,889,787</td>
<td>555,082</td>
<td></td>
</tr>
<tr>
<td>Fixed Income Funds:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lord Abbett Bond Debenture Fund</td>
<td>7,527,635</td>
<td>7,783,142</td>
<td>255,507</td>
<td>4.2%</td>
</tr>
<tr>
<td>Lord Abbett Short Duration Income Fund</td>
<td>7,523,781</td>
<td>7,523,781</td>
<td>-</td>
<td>0.6%</td>
</tr>
<tr>
<td>Total Fixed Income Funds</td>
<td>15,051,416</td>
<td>15,306,923</td>
<td>255,507</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$27,620,236</td>
<td>$28,463,786</td>
<td>$843,550</td>
<td>3.0%</td>
</tr>
</tbody>
</table>

Current Asset Allocation

- Money Market, 0.9%
- Equities, 45.3%
- Fixed Income, 53.8%
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, 2016.
### MICHIGAN TECH UNIVERSITY
### OUTSTANDING BALANCES ON BOND ISSUANCES
### AUGUST 31, 2016

<table>
<thead>
<tr>
<th>Bonds Outstanding</th>
<th>Long-Term Outstanding Amount</th>
<th>Current Outstanding Amount</th>
<th>Total Outstanding</th>
<th>Original Issue Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series 2008 Bond Issue (maturity 2038)</strong>&lt;br&gt; Purchase of UPPCO Building&lt;br&gt; Partial Funding of KRC Building&lt;br&gt; MUB Ballroom Renovation</td>
<td>$5,090,000</td>
<td>-</td>
<td>$5,090,000</td>
<td>$15,880,000</td>
</tr>
<tr>
<td><strong>Series 2009A Bond Issue (maturity 2039)</strong>&lt;br&gt; New Student Apartment Building&lt;br&gt; Partial Funding of KRC Building</td>
<td>15,600,000</td>
<td>405,000</td>
<td>$16,005,000</td>
<td>18,235,000</td>
</tr>
<tr>
<td><strong>Series 2010A Bond Issue (maturity 2040)</strong>&lt;br&gt; Great Lakes Research Center&lt;br&gt; A.E. Seaman Mineral Museum&lt;br&gt; KRC Building Purchase (Blizzard Building)&lt;br&gt; Life Safety Improvements on Campus</td>
<td>8,340,000</td>
<td>215,000</td>
<td>$8,555,000</td>
<td>10,975,000</td>
</tr>
<tr>
<td><strong>Series 2012A Bond Issue (maturity 2034)</strong>&lt;br&gt; Refunding of 2003 &amp; 2004 Fixed Rate Bond Issues&lt;br&gt; SDC Ice Plant and Partial Roof of SDC</td>
<td>28,915,000</td>
<td>1,220,000</td>
<td>$30,135,000</td>
<td>33,070,000</td>
</tr>
<tr>
<td><strong>Series 2013A Bond Issue (maturity 2036)</strong>&lt;br&gt; Refunding 2006 Bond Issue&lt;br&gt; Refunding partial 2008 Bond Issue</td>
<td>12,790,000</td>
<td>740,000</td>
<td>$13,530,000</td>
<td>14,265,000</td>
</tr>
<tr>
<td><strong>Series 2015A Bond Issue (maturity 2046)</strong>&lt;br&gt; Daniell Heights Renovation&lt;br&gt; Campus Dining Renovation&lt;br&gt; Fuel Storage Tank Facility&lt;br&gt; Chemical Storage Facility&lt;br&gt; Chemistry Labs Renovation&lt;br&gt; IT and Safety Systems Upgrades&lt;br&gt; McNair Hall Bathrooms Renovation</td>
<td>23,870,000</td>
<td>425,000</td>
<td>$24,295,000</td>
<td>24,295,000</td>
</tr>
<tr>
<td><strong>Total - All Bond Issues</strong></td>
<td>$94,605,000</td>
<td>$3,005,000</td>
<td>$97,610,000</td>
<td>$116,720,000</td>
</tr>
</tbody>
</table>
VII-C. RESEARCH AND SPONSORED PROGRAMS REPORT

A report of contracts and grants is attached hereto.

This is for the Board's information.
Sponsored Awards
Fiscal Year 2016
4th Quarter
Ended June, 30 2016
TOTAL: $51,661,818

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)
FYTD 2015: 51
FYTD 2016: 63

Proposals Submitted
Awards Received
Awards Received ($)

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '16 as of 06/30</th>
<th>FY '15 as of 06/30</th>
<th>FY '16 as of 06/30</th>
<th>FY '15 as of 06/30</th>
<th>FY '16 as of 06/30</th>
<th>FY '15 as of 06/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>71</td>
<td>73</td>
<td>29</td>
<td>42</td>
<td>1,422,217</td>
<td>2,422,291</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>186</td>
<td>216</td>
<td>65</td>
<td>89</td>
<td>7,363,202</td>
<td>12,308,810</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>48</td>
<td>55</td>
<td>43</td>
<td>78</td>
<td>2,078,969</td>
<td>2,842,385</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>72</td>
<td>83</td>
<td>69</td>
<td>49</td>
<td>9,886,023</td>
<td>12,592,868</td>
</tr>
<tr>
<td>US Department of Education</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>208,945</td>
<td>51,224</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>40</td>
<td>36</td>
<td>20</td>
<td>13</td>
<td>2,289,109</td>
<td>793,904</td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>45</td>
<td>49</td>
<td>15</td>
<td>14</td>
<td>3,203,615</td>
<td>2,439,403</td>
</tr>
<tr>
<td>US Department of Transportation</td>
<td>23</td>
<td>27</td>
<td>20</td>
<td>22</td>
<td>1,834,601</td>
<td>2,817,164</td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td>55</td>
<td>52</td>
<td>29</td>
<td>26</td>
<td>2,591,175</td>
<td>1,606,449</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>543</td>
<td>592</td>
<td>292</td>
<td>334</td>
<td>30,877,856</td>
<td>37,874,498</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>41</td>
<td>37</td>
<td>28</td>
<td>35</td>
<td>3,808,672</td>
<td>3,063,055</td>
</tr>
<tr>
<td>Industrial</td>
<td>181</td>
<td>204</td>
<td>188</td>
<td>181</td>
<td>7,128,823</td>
<td>8,776,896</td>
</tr>
<tr>
<td>Foreign</td>
<td>19</td>
<td>27</td>
<td>16</td>
<td>15</td>
<td>857,054</td>
<td>1,030,914</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>72</td>
<td>72</td>
<td>31</td>
<td>39</td>
<td>1,523,010</td>
<td>973,760</td>
</tr>
<tr>
<td>Subtotal</td>
<td>856</td>
<td>932</td>
<td>555</td>
<td>604</td>
<td>44,195,415</td>
<td>51,721,103</td>
</tr>
<tr>
<td>Gifts**</td>
<td>334</td>
<td>333</td>
<td>7,439,801</td>
<td>6,923,814</td>
<td>515,987</td>
<td>7.5%</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>27</td>
<td>29</td>
<td>26,602</td>
<td>35,102</td>
<td>-8,500</td>
<td>-24.2%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>856</td>
<td>932</td>
<td>916</td>
<td>966</td>
<td>$51,661,818</td>
<td>$58,680,019</td>
</tr>
</tbody>
</table>

Variance $ %

<table>
<thead>
<tr>
<th>Sponsor</th>
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<th>FY '15 as of 06/30</th>
<th>FY '16 as of 06/30</th>
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<td>7,128,823</td>
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<td>857,054</td>
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<td>39</td>
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<td>44,195,415</td>
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<td>916</td>
<td>966</td>
<td>$51,661,818</td>
<td>$58,680,019</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 2016
4th Quarter
Ended June 30, 2016

TOTAL: $51,661,818

Percentages of Tenured & Tenure Track Faculty (as either PI or Co-PI)
Submitting Proposals since 07/01/2015
62.9%
On Active Projects as of 06/30/2016
51.3%

<table>
<thead>
<tr>
<th>SPO &amp; IIE Metrics</th>
<th>Administration</th>
<th>College of Engineering</th>
<th>College of Sciences &amp; Arts</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>38</td>
<td>400</td>
<td>162</td>
<td>53</td>
<td>74</td>
<td>2</td>
<td>7</td>
<td>111</td>
<td>9</td>
<td>856</td>
</tr>
<tr>
<td>Awards Received</td>
<td>177</td>
<td>339</td>
<td>91</td>
<td>76</td>
<td>60</td>
<td>41</td>
<td>10</td>
<td>118</td>
<td>4</td>
<td>916</td>
</tr>
<tr>
<td>Federal</td>
<td>116,750</td>
<td>9,405,331</td>
<td>5,389,611</td>
<td>2,152,690</td>
<td>5,110,359</td>
<td>97,402</td>
<td>-</td>
<td>2,067,704</td>
<td>-</td>
<td>24,339,847</td>
</tr>
<tr>
<td>Federal Pass-Through</td>
<td>142,658</td>
<td>2,758,326</td>
<td>649,135</td>
<td>47,646</td>
<td>2,673,489</td>
<td>-</td>
<td>-</td>
<td>266,755</td>
<td>-</td>
<td>6,538,009</td>
</tr>
<tr>
<td>Foreign</td>
<td>-</td>
<td>639,910</td>
<td>120,332</td>
<td>72,660</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>14,152</td>
<td>10,000</td>
<td>857,054</td>
</tr>
<tr>
<td>Gifts</td>
<td>3,589,937</td>
<td>680,417</td>
<td>2,605,694</td>
<td>132,937</td>
<td>-</td>
<td>2,474</td>
<td>10</td>
<td>990</td>
<td>463</td>
<td>26,602</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>6,152</td>
<td>10,406</td>
<td>2,777</td>
<td>3,330</td>
<td>-</td>
<td>266,333</td>
<td>46,000</td>
<td>118,183</td>
<td>-</td>
<td>7,439,801</td>
</tr>
<tr>
<td>Industry</td>
<td>13,125</td>
<td>3,470,864</td>
<td>129,842</td>
<td>2,509,773</td>
<td>38,000</td>
<td>-</td>
<td>53,625</td>
<td>877,261</td>
<td>36,333</td>
<td>7,128,823</td>
</tr>
<tr>
<td>Other</td>
<td>30,000</td>
<td>189,295</td>
<td>966,597</td>
<td>2,000</td>
<td>56,414</td>
<td>21,500</td>
<td>-</td>
<td>257,204</td>
<td>-</td>
<td>1,523,010</td>
</tr>
<tr>
<td>State of MI</td>
<td>346,330</td>
<td>3,034,214</td>
<td>5,580</td>
<td>-</td>
<td>388,177</td>
<td>-</td>
<td>-</td>
<td>12,000</td>
<td>-</td>
<td>3,808,762</td>
</tr>
</tbody>
</table>

| Fiscal Comparison | 5,199,405       | 24,002,553             | 8,294,676                 | 7,309,358               | 7,900,394                     | 419,157              | 362,250                       | 4,234,492                      | 957,734           | 58,680,019 |
| Percent Change     | -18.4%          | -15.9%                 | 19.0%                     | -32.7%                  | 4.6%                          | -7.4%                | -72.5%                        | -14.1%                        | -95.1%            | -12.0% |

| Disclosures Received | -               | 71.80%                 | 19.31%                    | -                       | 8.89%                         | -                    | -                             | -                             | -                 | 32    |
| Nondisclosure Agreements | 6               | 61                     | 10                        | 17                      | 13                            | 1                    | -                             | 1                             | 2                 | 111   |
| Patents Filed or Issued | -              | 65.00%                 | 29.12%                    | -                       | 8.88%                         | -                    | -                             | -                             | -                 | 17    |
| License Agreements   | 2               | 13                     | 3                         | 1                       | 1                             | 1                    | -                             | 1                             | -                 | 20    |
| Gross Royalties      | 5.41%           | 16.22%                 | 27.02%                    | 18.92%                  | 24.32%                        | -                    | -                             | 8.11%                         | -                 | 301,120 |

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).
3 Institute for Leadership & Innovation is reported under Pavlis Honors College as of fiscal year 2015

| 110 |
Formal Session of the Board of Trustees - VII. Informational Items

Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2016
4th Quarter
Ended June 30, 2016
TOTAL: $12,543,545

Proposals Submitted
Awards Received
Awards Received ($)
Industry Segment FY '16 FY '15 FY '16 FY '15 FY '16 FY '15 Variance Variance
as of 6/30 as of 6/30 as of 6/30 as of 6/30 as of 6/30 as of 6/30 $ %
Automotive 72 78 164 150 4,834,597 3,993,403 841,194 21.1%
Business & Economics 6 3 25 18 191,355 293,443 102,088 -34.8%
Chemical 17 21 35 28 608,002 429,639 178,363 41.5%
Civil 8 11 25 30 824,263 971,825 147,562 -15.2%
Consumer Products 24 28 59 59 989,961 876,894 113,067 12.9%
Defense & Space 26 37 35 35 1,687,208 1,557,338 129,870 8.3%
Energy 9 21 35 58 735,900 2,984,027 (2,248,127) -75.3%
Environmental 8 9 17 12 129,959 277,067 (147,108) -53.1%
Health 19 14 23 21 381,552 369,267 12,285 3.3%
Industrial Engineering 9 15 29 26 206,520 376,056 (169,536) -45.1%
IT Services 10 10 16 16 611,886 285,540 326,346 114.3%
Mining & Metals 17 22 39 40 376,258 815,085 (438,827) -53.8%
Other 9 6 20 16 623,048 186,183 436,865 234.6%
Technology 10 6 14 8 343,036 91,621 251,415 274.4%
Total 244 281 536 517 12,543,545 13,507,388 (963,843) -7.1%

*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 FINAL Research Expenditures by College/School/Division
Fiscal Year 2016 & 2015
As of June 30, 2016 and June 30, 2015

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2016</th>
<th>FY2015</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,652,771</td>
<td>2,368,505</td>
<td>284,266</td>
<td>12.0%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>28,885,027</td>
<td>27,048,969</td>
<td>1,836,058</td>
<td>6.8%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>16,825,212</td>
<td>15,361,434</td>
<td>1,463,778</td>
<td>9.5%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>284,189</td>
<td>356,221</td>
<td>(72,032)</td>
<td>-20.2%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>7,076,343</td>
<td>6,870,541</td>
<td>205,802</td>
<td>3.0%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>8,912,958</td>
<td>9,698,319</td>
<td>(785,361)</td>
<td>-8.1%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>1,630,253</td>
<td>1,623,653</td>
<td>6,600</td>
<td>0.4%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>5,508,378</td>
<td>5,771,264</td>
<td>(262,886)</td>
<td>-4.6%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>760,637</td>
<td>507,811</td>
<td>252,826</td>
<td>49.8%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>72,535,768</strong></td>
<td><strong>69,606,717</strong></td>
<td><strong>2,929,051</strong></td>
<td><strong>4.2%</strong></td>
</tr>
</tbody>
</table>

*Includes the Vice Presidents, Provost, CIO, Exec Director Financial Services & Operations and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.
VII-D. ADVANCEMENT AND ALUMNI RELATIONS REPORT

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

This is for the Board’s information.
ADVANCEMENT AND ALUMNI ENGAGEMENT
BOARD OF TRUSTEES REPORT
October 2016

ADVANCEMENT

A total of $28.3 million was raised for Michigan Tech from July 1 through September 20, 2016—81% of the fundraising goal of $35.0 million for FY 2017.

Major/Planned Giving raised $26.4 million from July 1 through September 20, 2016—151% of its $17.5 million goal for FY 2017.

- Includes $25 million documented by a planned gift donor who wants to remain anonymous
- Remaining pending gift asks for this category total $42.8 million as of September 20, 2016

The planned giving registry totals $172.5 million as of September 20, 2016.

- $114.3 million (66%) is for endowments
- $152.5 million (88%) is revocable
- $1.4 million realized in FY to date; actuarial expectancy of $67.8 million for next 15 years

A significantly enhanced annual impact report has been developed for mailing to Michigan Tech’s endowed scholarship donors in October.

The “Silicon Valley” program has been broadened to a newly branded 14 Floors series of cross-disciplinary events, on and off campus, to foster entrepreneurism and high-tech innovation. The next campus visit by a group of such alumni leaders is scheduled for October 24-27.

Advancement is partnering with Benefit Services to offer a series of estate and financial planning sessions for employees, retirees, and interested community supporters which begin on October 17.

ALUMNI ENGAGEMENT

Reunion 2016: Alumni Reunion 2016 brought over 600 alumni and friends back to campus for three days of events, August 4–6. From sharing stories from 1966 at the Golden M pinning ceremony, to the 5K run/walk for scholarships, to creating a lovable plush husky dog, new memories were made for all ages.

<table>
<thead>
<tr>
<th>Alumni Attendance Stats</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; or = 5 years (incl student workers)</td>
<td>16</td>
</tr>
<tr>
<td>&lt; or = 10 years</td>
<td>17</td>
</tr>
<tr>
<td>&lt; or = 20 years</td>
<td>28</td>
</tr>
<tr>
<td>&lt; or = 30 years</td>
<td>46</td>
</tr>
<tr>
<td>&lt; or = 40 years</td>
<td>71</td>
</tr>
<tr>
<td>&lt; 50 Years</td>
<td>23</td>
</tr>
<tr>
<td>50 year class</td>
<td>51</td>
</tr>
<tr>
<td>Golden M</td>
<td>83</td>
</tr>
<tr>
<td>Total alumni attending:</td>
<td>335</td>
</tr>
</tbody>
</table>

New projects include the development of a Husky Bucket List smartphone app in conjunction with student enterprise IT Oxygen. Ongoing development of the Husky Plaza webpages and the alumni area of the My Michigan Tech portal.
Class Gifts total: $1,807,264

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 year</td>
<td>$38,691</td>
</tr>
<tr>
<td>50 year</td>
<td>$116,456</td>
</tr>
<tr>
<td>40 Year</td>
<td>$1,520,008</td>
</tr>
<tr>
<td>30 Year</td>
<td>$54,389</td>
</tr>
<tr>
<td>25 Year</td>
<td>$40,628</td>
</tr>
<tr>
<td>20 year</td>
<td>$21,845</td>
</tr>
<tr>
<td>10 year</td>
<td>$15,247</td>
</tr>
</tbody>
</table>

Regional Events: Activities for alumni and friends are being planned around the country. Many are pre-game events for Husky football and hockey and our ongoing chapter Thirsty Thursday pub nights around the country. A new event being planned is a Husky family event in the Detroit area which will include “Stuff a Husky” face painting, balloon animals and photos with “Santa” Blizzard T. Husky.

### ANNUAL GIVING

**2015-16 Goals:**
- Overall Annual Giving - $2.5 million
- Annual Fund gifts - $1.5 million (* Unrestricted, academic unit unrestricted and Annual Fund scholarship gifts).

**2015-16 Results:**
- Overall Annual Giving - $2.67 million (107% of goal)
- Annual Fund - $1.504 million (101% of goal)

**Campus Campaign 2016-17:**
Kicked off the annual faculty/staff campaign on Monday, September 19. Goal is to continue the trend in increasing the overall participation rate:
- FY14: 17.2%
- FY15: 22.3%
- FY16: 26.6%

**2015-16 Reunion Giving Program results:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>60-year: 1956</td>
<td>$38,691</td>
</tr>
<tr>
<td>50-year: 1966</td>
<td>$616,456</td>
</tr>
<tr>
<td>40-year: 1976</td>
<td>$1,520,008</td>
</tr>
<tr>
<td>30-year: 1986</td>
<td>$54,389</td>
</tr>
<tr>
<td>25-year: 1991</td>
<td>$40,628</td>
</tr>
<tr>
<td>20-year: 1996</td>
<td>$21,845</td>
</tr>
<tr>
<td>10-year: 2006</td>
<td>$15,247</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$2,307,264</strong></td>
</tr>
</tbody>
</table>

**Culture of Philanthropy**
October 4-6 we celebrated an “I ♡ Michigan Tech” campus event. Students were asked to share what they love about Tech in general, as well as what they love about faculty and staff, and alumni and friend donors.

**Other**
The annual Presidential Council of Alumnae (PCA) event took place on campus September 22-23. This was the Council’s 20th anniversary with record numbers in attendance with ten new members being inducted. The group partnered with Career Services again to sponsor a Career Success breakfast and roundtable discussion event for current students.
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 16, 2016 – September 23, 2016

News by Category
Athletics 364
Alumni 254
Research 295
Student Life 104
Business/People 162
Events 507
Hometown News 687
Curricula/Programs 365
Other 694

Total Traditional Media 3,432

Social Media
Michigan Tech’s social media followers have increased dramatically over the past year. Here are the numbers from July 16 2015 through September 23, 2016.

Twitter 258,833 post impressions | 1,138 post clicks
Facebook 4,293,462 post impressions | 15,721 post clicks
Instagram 18,358 photo/video likes | 120 comments
LinkedIn 3,099 pageviews | 1,364 new followers
YouTube 26,661 video views | 58,747 minutes watched | 91 subscribers

@michigantech Twitter reached 9,000 followers on September 14. The account @michigan_tech aims to reach current and prospective students.

We launched an official Pinterest on July 14.

We launched our seventh official social media platform, Snapchat, on September 9.

We executed the first-ever Parade of Nations Live Blog on September 17 including two international student-bloggers. The blog captured more than 90 live views and 220 replays.
A Few Examples


MITechNews, a news web site about Michigan technologies, featured a video interview with Assistant Professor Nina Mahmoudian (ME-EM), talking about her underwater robots. See the video: [https://mitechnews.com/drones/recharging-underwater-robots-michigan-tech-universitys-nina-mahmoudian/](https://mitechnews.com/drones/recharging-underwater-robots-michigan-tech-universitys-nina-mahmoudian/)
MLLive, a statewide news service, reported that Joe Berger, a 2005 Tech alumnus and player with the Minnesota Vikings in the National Football League, has been named the number one center by the Vikings. See [http://www.mlive.com/sports/2016/08/newaygos_joe_berger_wins_job_a.html](http://www.mlive.com/sports/2016/08/newaygos_joe_berger_wins_job_a.html)


Tech Century, an online news site published by the Engineering Society of Detroit, ran a story about Michigan Tech's first Women in Automotive Engineering program. Funded by Fiat Chrysler Automobiles. The program brought talented high school girls to Tech this summer to learn about careers in automotive engineering. It was part of the University's Summer Youth Programs. See [https://techcentury.com/2016/08/18/women-get-first-hand-look-at-auto-industry/](https://techcentury.com/2016/08/18/women-get-first-hand-look-at-auto-industry/)

Science360, a science news website published by the National Science Foundation (NSF) featured the synthetic DNA research of Professor Shiyue Fang (Chem) as one of its "Headlines." See [https://news.science360.gov/archives/20160815](https://news.science360.gov/archives/20160815)

STEMBlog and STEMConnector published an opinion piece by Computer Science Professor Linda Ott about the need for computer science education for all. Ott is former chair of the Department of Computer Science and associate dean for special initiatives in the College of Sciences and Arts. See [http://blog.stemconnector.org/thrill-computer-science-all](http://blog.stemconnector.org/thrill-computer-science-all)
News by Category Chart

7/16/2016 to 9/23/2016
Sample Clippings
THE CADILLAC CT6

"THE MOST ADVANCED AND LUXURIOUS CADILLAC EVER."
- AUTOMOBILE

The Switch

Why those Samsung batteries exploded

By Andrea Petersen  September 12

Microsoft Cloud
Michigan Tech to be home to regional EPA finance center

By Associated Press

HOUGHTON – Michigan Technological University will be home to a new U.S. Environmental Protection Agency regional environmental finance center.

The Houghton school announced Monday that the Region 5 center is accompanied by a 6-year grant of up to $5.6 million. The region covers Michigan, Minnesota, Wisconsin, Illinois, Indiana and Ohio. EPA officials

planned to visit Michigan Tech Tuesday and Wednesday.

The university is home to the School of Business and Economics and the Great Lakes Research Center. A multi-disciplinary approach that’s the norm at the school “made our application stand out,” Tim Ceiling, principal investigator on the EPA center, said in a statement.

The regional center is one of 10 nationwide designed to help counties, cities, villages and state agencies find better ways to manage and maintain infrastructure.
The Thrill of Computer Science For All

Submitted by Tommy Carrels on July 28, 2010

This is a guest blog post from Dr. Linda On, Professor of Computer Science and Associate Dean for Special Initiatives (College of Sciences and Arts) at Michigan Tech.

President Obama thinks that school children need to learn to think like computer scientists. So does Google. And so do I.

That’s why I’m so excited about the President’s Initiative, Computer Science for All, which calls for substantial funding to expand K-12 computer science education. I’m equally excited about the Google Inc. Fund of Tides Foundation grant that is enabling teachers from schools in the Upper Peninsula of Michigan and Northern Wisconsin to attend a free CS4All workshop this summer at Michigan Technological University, where I am a professor of computer science.

Why does this excite me? Because early exposure to the thrill of computer programming changed my life. I had the privilege of taking a computer science course in high school. It was the beginning of a career in computing that I am still enjoying.

A programming class was a rare opportunity in 1968. It’s appalling to me that now nearly 50 years later, it is still a rare opportunity. Estimates are that only about one in four schools offers computer science.
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>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>2015</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td></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>
</tr>
<tr>
<td>Lost Time Cases</td>
<td>2015</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td></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>
</tr>
<tr>
<td>Restricted Work Cases</td>
<td>2015</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></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>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)</td>
<td>2015</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td></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>
</tr>
<tr>
<td>Injury Loss Time</td>
<td>2015</td>
<td>15</td>
<td>0</td>
<td>27</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>47</td>
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<tr>
<td></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>
</tr>
<tr>
<td>Restricted Work Days</td>
<td>2015</td>
<td>84</td>
<td>0</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>14</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>8</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>Total Work Hours</td>
<td>2015</td>
<td>174,650</td>
<td>457,230</td>
<td>80,115</td>
<td>10,753</td>
<td>656,707</td>
<td>44,613</td>
<td>149,525</td>
<td>1,573,593</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>180,373</td>
<td>451,717</td>
<td>81,689</td>
<td>10,113</td>
<td>678,705</td>
<td>48,604</td>
<td>151,441</td>
<td>1,602,642</td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2015</td>
<td>11.1%</td>
<td>29.1%</td>
<td>5.1%</td>
<td>0.7%</td>
<td>41.7%</td>
<td>2.8%</td>
<td>9.5%</td>
<td>100.0%</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>11.3%</td>
<td>28.2%</td>
<td>5.1%</td>
<td>0.6%</td>
<td>42.3%</td>
<td>3.0%</td>
<td>9.4%</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

September 2016

<table>
<thead>
<tr>
<th>Hours Worked</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Formal Session of the Board of Trustees - VII. Informational Items
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