AGENDA
Formal Session of the Board of Trustees
Michigan Technological University
9:00 a.m. – March 1, 2019
Ballroom B – Memorial Union Building

I. Approval of Agenda

II. Appointment of Secretary to the Board of Trustees
   A. Resolution to Appoint New Secretary to the Board of Trustees

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

IV. Committee Reports
   A. Academic Affairs Committee – Linda Kennedy
   B. Audit and Finance Committee – Steve Tomaszewski
   C. Leadership Committee – Bill Johnson

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

VI. Action/Discussion Items
   A. Employee Recognition
   B. Exclusion Resolution for the Department of Defense
   C. Revision of Board Policy 12.2 Building Property Rules and Regulations
   D. Revision of Board Ordinance No. 3 - Control of Pets
   E. 2019-2020 Room and Board and Apartment Rental Rates
   F. Resolution Authorization for Approval of H-STEM Engineering and Health Technologies Complex – Phase I Planning and Design

VII. Reports
   A. Undergraduate Student Government Report – Max Sexauer, President
   B. Graduate Student Government Report – Apurva Baruah, President
   C. Finance & Budget Report - Ms. Julie Seppala, Vice President for Finance
   D. University Senate Report - Dr. Mike Mullins, President
   E. Faculty Presentation - Connecting with Communities: Transdisciplinary Scholarship for Community Solar in the Keweenaw – Dr. Richelle Winkler, Department of Social Sciences

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

IX. Other Business

X. Public Comments

XI. Adjournment
I. APPROVAL OF AGENDA

RECOMMENDATION: That the Board of Trustees approves the agenda of the formal session of March 1, 2019 as distributed to the Board.
II-A. APPOINTMENT OF SECRETARY

Public Act 70 of 1885 as amended in 1963 states that no member of the Board of Trustees can serve as secretary or treasurer and that the Board elect a secretary and treasurer to serve at their pleasure.

As Roberta Dessellier retired on January 19, 2019, it is being recommended that the Board appoint a Secretary effective March 1, 2019.

RECOMMENDATION: That the Board of Trustees appoints a Secretary effective March 1, 2019.
III. OPENING REMARKS

A. Chair’s Comments

B. President’s Comments
IV. COMMITTEE REPORTS

A. Academic Affairs Committee
   Linda Kennedy

B. Audit and Finance Committee
   Steve Tomaszewski

C. Leadership Committee
   Bill Johnson
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. Gifts
C. Resignations, Retirements and Off Payroll
D. Degrees in Course
V-A. APPROVAL OF MINUTES

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal session of December 14, 2018 as distributed to the Board.
V-B. GIFTS

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

RECOMMENDATION: That the Board of Trustees acknowledges the gifts to Michigan Technological University.
Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2018 through January 31, 2019
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY19 YTD Total</th>
<th>FY18 YTD Total</th>
<th>FY18 Total</th>
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<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>13,799,810</td>
<td>11,031,764</td>
<td>17,991,494</td>
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<tr>
<td>Realized Planned Gifts (Unanticipated)</td>
<td>47,487</td>
<td>1,104,129</td>
<td>2,132,476</td>
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<td>Individuals - non-Major Gifts</td>
<td>1,359,568</td>
<td>1,351,176</td>
<td>1,972,362</td>
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<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>7,644,819</td>
<td>6,817,500</td>
<td>12,138,000</td>
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<td>Annual Fund</td>
<td>1,012,389</td>
<td>944,243</td>
<td>1,491,595</td>
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<tr>
<td>Corporate Sponsored Research</td>
<td>7,168,184</td>
<td>460,485</td>
<td>3,025,560</td>
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<td>Corporations</td>
<td>1,000,820</td>
<td>1,023,959</td>
<td>2,142,215</td>
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<tr>
<td>Foundations &amp; Other Organizations</td>
<td>214,709</td>
<td>91,004</td>
<td>163,999</td>
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<tr>
<td>Gifts-in-Kind</td>
<td>956,313</td>
<td>118,387</td>
<td>323,917</td>
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<td><strong>Grand Total</strong></td>
<td><strong>33,204,099</strong></td>
<td><strong>22,942,646</strong></td>
<td><strong>41,381,619</strong></td>
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-- Except for the Annual Fund, all totals include outright gifts and the full amount of new pledge commitments
-- Annual Fund includes cash from prior year pledges in addition to outright current year gifts and new pledge commitments due current year
-- An individual's gifts given through another source (i.e. family foundation or closely held business) are credited to the individual

02/06/2019 11:02
V-C. RESIGNATIONS, RETIREMENTS AND OFF PAYROLL

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

**RECOMMENDATION:** That the Board of Trustees accepts the resignations, retirements and confirms the off payroll determinations.
# BOARD OF TRUSTEES OFF-PAYROLL REPORT
(November 18, 2018 – February 9, 2019)

## RETIRED

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Most Recent Hire Date</th>
<th>Term Date</th>
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<tbody>
<tr>
<td>Beard, John</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>01/06/1992</td>
<td>01/05/2019</td>
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<tr>
<td>Dessellier, Roberta</td>
<td>Staff</td>
<td>President’s Office</td>
<td>Executive Associate to the President / Secretary to the Board of Trustees</td>
<td>10/02/1975</td>
<td>01/19/2019</td>
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<tr>
<td>Johnson, Dana</td>
<td>Faculty</td>
<td>School of Business and Economics</td>
<td>Professor</td>
<td>08/22/1999</td>
<td>01/04/2019</td>
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<tr>
<td>Seely, Nancy</td>
<td>Staff</td>
<td>Jackson Center for Teaching &amp; Learning</td>
<td>Associate Director Jackson Center for Teaching &amp; Learning</td>
<td>08/29/1994</td>
<td>02/09/2019</td>
</tr>
<tr>
<td>Tomasi, Michael</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Facilities Manager</td>
<td>01/08/1990</td>
<td>01/03/2019</td>
</tr>
<tr>
<td>Wareham, Donald</td>
<td>Staff</td>
<td>Vice President for Research</td>
<td>Manager Chemical Stores</td>
<td>09/12/1977</td>
<td>01/11/2019</td>
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## OFF-PAYROLL

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Most Recent Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brodeur, Shannon</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Administrative Support Specialist</td>
<td>08/28/2017</td>
<td>01/17/2019</td>
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<tr>
<td>Clancey, Michael</td>
<td>Faculty</td>
<td>Chemical Engineering</td>
<td>Instructor</td>
<td>08/15/2016</td>
<td>01/18/2019</td>
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<tr>
<td>Esterline, Diane</td>
<td>Staff</td>
<td>Jackson Center for Teaching &amp; Learning</td>
<td>Office Assistant 3</td>
<td>09/10/2018</td>
<td>11/24/2018</td>
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<tr>
<td>Frank, Marie</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>08/27/2018</td>
<td>12/10/2018</td>
</tr>
<tr>
<td>Hauswirth, Gavin</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>08/27/2018</td>
<td>12/17/2018</td>
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<tr>
<td>Jacques, Shane</td>
<td>Staff</td>
<td>Innovation &amp; Commercialization</td>
<td>Senior Business Consultant</td>
<td>09/10/2018</td>
<td>02/01/2019</td>
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<tr>
<td>Kastamo, Mark</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Print Specialist</td>
<td>07/03/2006</td>
<td>01/04/2019</td>
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<tr>
<td>Kerr, Rachael</td>
<td>Staff</td>
<td>Graduate School</td>
<td>Digital Content &amp; Special Program Manager</td>
<td>12/11/2017</td>
<td>02/01/2019</td>
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<tr>
<td>Mahmoudian, Nina</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>12/26/2010</td>
<td>12/30/2018</td>
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<tr>
<td>Markham, Carmen</td>
<td>Staff</td>
<td>Counseling Services</td>
<td>Case Manager</td>
<td>07/20/2008</td>
<td>01/25/2019</td>
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<tr>
<td>Nelson, Casey</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Office Assistant 6</td>
<td>06/18/2018</td>
<td>12/28/2018</td>
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<tr>
<td>Pattenaude, Timothy</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Research Engineering/Scientist I</td>
<td>07/08/2013</td>
<td>01/16/2019</td>
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<tr>
<td>Rastgaard, Mo</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>12/26/2010</td>
<td>12/30/2018</td>
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<tr>
<td>Schwartz, Tyler</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Programmer/Analyst</td>
<td>01/26/2015</td>
<td>01/04/2019</td>
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<tr>
<td>Thome, Matthew</td>
<td>Staff</td>
<td>Kinesiology/Integrative Physiology and General Athletics</td>
<td>Instructor / Assistant Track &amp; Field / Cross Country Coach</td>
<td>09/04/2012</td>
<td>01/02/2019</td>
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<tr>
<td>Williams, Christine</td>
<td>Staff</td>
<td>Transportation Services</td>
<td>Office Assistant 5</td>
<td>03/26/2018</td>
<td>12/28/2018</td>
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<tr>
<td>Zhang, Shasha</td>
<td>Staff</td>
<td>Internal Audit</td>
<td>Auditor</td>
<td>08/27/2018</td>
<td>01/14/2019</td>
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</table>
V-D. DEGREES IN COURSE

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

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

To: Dr. Richard J. Koubek, President
   Office of the President

From: Kelly L. Vizanko, Associate Registrar
       Registrar's Office

Date: February 7, 2019

Subject: Candidates for Degrees – Conferral Term 201808

The attached list of candidates for degrees, beginning with Patrick Ronald Munson and ending with Xiaqing Gao 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.

Kelly L. Vizanko
Associate Registrar

KLV: kph
Michigan Technological University
Degrees Awarded for Conferral Term 201808

Associate of Arts in Humanities
Patrick Ronald Munson

Bachelor of Arts in Communication, Culture, and Media
Bridget Irene Alaniva - Cum Laude
Matthew Christian Cavender

Bachelor of Arts in Physics
Robert J Stenger

Bachelor of Science in Accounting
Alexander Phillip Claerbaut
Lili Jiang
Erin Patricia Lipp - Magna Cum Laude
Alexandra Elizabeth Morley

Bachelor of Science in Applied Ecology and Environmental Science
Logan Thomas Hawley

Bachelor of Science in Applied Geophysics
Katie E Bristol
Daniel Brian Trekas - Cum Laude

Bachelor of Science in Applied Physics
Taylor May Kaminski

Bachelor of Science in Audio Production and Technology
Brendan David Espinosa
Steven Anthony Klier
Ethan Charles Sommer

Bachelor of Science in Biochemistry and Molecular Biology
William Callow Christian - Summa Cum Laude
Reginald Lawrence Mullen
Terry Vliek

Bachelor of Science in Biological Sciences
Ciera M Danen - Magna Cum Laude
Gary Michael Swain
Rachel Anne Wall - Cum Laude
Richard Yang - Magna Cum Laude

Bachelor of Science in Biomedical Engineering
Grace Frances Louise Carey
Monica Louise Nelson
Levi L Oxner
Daniel Pieter Puleart
Carolynn Aspen Que

Bachelor of Science in Chemical Engineering
Tyler Tarec Dennis
Tanner Montana Norcross

Bachelor of Science in Chemistry
Joseph Alan Brouwer
Brian Patrick Burtka - Cum Laude
Alyssa Jailee Cinder - Magna Cum Laude
Danielle R Langdon
Tyler J Phillips

Bachelor of Science in Civil Engineering
Hannah Marie Akey
Addison Marie Bailey
Alexander Michael Baker - Summa Cum Laude
Grant Michael Beatus
Ryan Michael Beering - Summa Cum Laude
Margaret Louise Clark
Tasha L Cook
Brett Wesley Daavettila
Brandi Nicole Dain - Cum Laude
Luke Patrick Dowell
Michigan Technological University  
Degrees Awarded for Conferral Term 201808

Luke William Esposito - Cum Laude  
Michael Thomas Walter Frahm  
Joseph Michael Giancarlo  
James Parker Hegel  
Chad Edward Helppi  
Kyle Thomas Hiltunen - Magna Cum Laude  
Brock V Jabusch  
Tyler Daniel Jacqmain - Magna Cum Laude  
Anthony Alan Jaksa  
Tyler Andrew Kearly  
Carlee Joyce Klenotich  
Kyle Peter Lehto  
Cade Douglas MacArthur  
Seth Joseph Malcolm  
Jacob John Munie  
Isaac Edward Pantti  
Maya Marie Price - Cum Laude  
Gregory Lee Schultz  
Andrew Gentry Shepard  
Jesse Dakota Steeves  
Michael Paul Stepnak  
Brandon Scott VanWert - Magna Cum Laude

Bachelor of Science in Computer Engineering

Isobel Mae Alberts  
Drew Hubert Applegath  
Cameron Nicholas Burke  
Justin Allen Evankovich - Summa Cum Laude  
Alexander Ryan Gall  
Zachary Jhon Garavet - Magna Cum Laude  
Cole Edward Kendall  
Cody Hunter Kovar  
Brendan James Miller  
David Peter Mutet - Cum Laude  
Winston Montgomery Parker  
Jack Richard Swanberg - Magna Cum Laude  
Benjamin Davis Tovar-Prince  
Haden P Wasserbaech  
Carlos Williams-Moreiras - Magna Cum Laude

Bachelor of Science in Computer Network and System Administr

Ashley Ann Brown  
Trevor J Burek  
Michael Adrian Conway  
Dylan Wayne Earls  
Isaac James Hermann - Cum Laude  
Benjamin Charles Stinchcomb - Cum Laude

Bachelor of Science in Computer Science

Collin Bailey Bernard  
Stephen D Colegrove
Michigan Technological University
Degrees Awarded for Conferral Term 201808

Neil Joseph Culbertson
Matthew James Finzel
Brandon Alexander Johnson - Cum Laude
Daniel Erik Knenlein
Brett Robert Kurzawa - Magna Cum Laude
Brennan Douglas Lautner
Samuel August Meluch
Utkarsh Mishra
Connor Gary Przybyla
Joseph David Ryan
Jiaxin Teng
Ajay Vasu
Nikita John Velat
Kate M Weber
Jamie J Witmer - Cum Laude
Daniel Jacob Wood - Cum Laude

Bachelor of Science in Construction Management
Aaron Ray Crapsey

Bachelor of Science in Electrical Engineering
Cameron Nicholas Burke
Christine Ann Cauley
William Mark Cornillie
Matthew Aaron Cukier
Paul Frank Daily
Brandon M Guster
Sean Michael James
Jacob R Jarvis - Cum Laude
Justin T Jung
Michael David Kytola
Chen Lou
Drake James McClendon - Cum Laude
Matthew Jeffrey O'Brien
Levi L Oxner
Trevor Brendan Peffley
Lanna Raye Pirkola - Magna Cum Laude
Isaac Kenneth Rasmussen
Bradley Thomas Revett
Marc Robertson
Nolan Norbert Rochelle
Nicholas Woodward Shabino
Thomas C Siler
Alexa Raye Thompson
Michael Theodore Von Kronenberger - Cum Laude
Sarah Shang Wade - Magna Cum Laude
Gabriel Richard Wykle
Hui Xie

Bachelor of Science in Electrical Engineering Technology
Jenna Lyn Gillman
Michigan Technological University  
Degrees Awarded for Conferral Term 201808

<table>
<thead>
<tr>
<th>Degree &amp; MajorOUNT</th>
<th>Name</th>
<th>Honors</th>
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<td>Bachelor of Science in Engineering</td>
<td>Zachary L Sargent</td>
<td>Cum Laude</td>
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<td>Bachelor of Science in Engineering Management</td>
<td>Kai Bourdeau Wilkinson</td>
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<td>Bachelor of Science in Engineering Management</td>
<td>Patrick Karl Sargent</td>
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<tr>
<td>Bachelor of Science in Environmental Engineering</td>
<td>Timothy Adam Bart</td>
<td>Cum Laude</td>
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<td>Kelby Paul Chrivia</td>
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<td>Bachelor of Science in Environmental Engineering</td>
<td>Gabriela Elena Mayorga</td>
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<td>Ellen Victoria Aiken</td>
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<td>Sarah Jo Martens</td>
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<td>Rose Cecilia Turner</td>
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<td>Alexander Haviland Ware</td>
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<td>Robert Michael Watt</td>
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<td>Bachelor of Science in Exercise Science</td>
<td>Christine Danielle Wood</td>
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<td>Nicholas Gordon Carlson</td>
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<td>Magna Cum Laude</td>
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<td>Max D Keyzers</td>
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<td>Michael A MacIntosh</td>
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<td>Frederick Michael Saigh</td>
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<tr>
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<td>Leah Ahn Meek</td>
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<td>Michael Xavier Schienke</td>
<td>Cum Laude</td>
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<td>Robert Biedron Shlimovitz</td>
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<td>Bachelor of Science in Geological Engineering</td>
<td>Melanie Joy Zondag</td>
<td>Cum Laude</td>
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<tr>
<td>Bachelor of Science in Geology</td>
<td>Kelly Ann Edwards</td>
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<td>Bachelor of Science in Management</td>
<td>Stephen Michael Butina</td>
<td>Cum Laude</td>
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<td>Bachelor of Science in Management</td>
<td>Rachel A Chard</td>
<td>Magna Cum Laude</td>
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<td>Bachelor of Science in Management Information Systems</td>
<td>Nolan Charles Storm</td>
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<td>Damon D Greer</td>
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<td>Stephen Nicholas Ross</td>
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<tr>
<td>Bachelor of Science in Management Information Systems</td>
<td>Nuwanga H Wanaguru</td>
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</tr>
<tr>
<td>Bachelor of Science in Marketing</td>
<td>Catalina Ann Palm</td>
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Michigan Technological University  
Degrees Awarded for Conferral Term 201808

| Bachelor of Science in Materials Science and Engineering | Elizabeth Megan Beauvais  
| | Simon James Eddy  
| | Ryan Lloyd Hebner  
| | Daniel Jerome LaCroix - Summa Cum Laude  
| | Karry Adeline Modolo - Magna Cum Laude  
| | Charles Alan Newlin  
| | Jacob Braykovich Park  
| | Zachary Lawrence Reuter  
| | Tyler G Rick  
| | Laura K Schimmel - Cum Laude  

| Bachelor of Science in Mathematics | Benjamin Bergeron  
| | Scott Strachan Darios  
| | Brandon Thomas King  
| | Eric Edward Minch  
| | Andrea N Spencer - Cum Laude  
| | Nolan Robert Stoffer  

| Bachelor of Science in Mechanical Engineering | Aimee Mary Allen - Magna Cum Laude  
| | Roberto Araujo Ferreira - Cum Laude  
| | Joseph Robert Axberg  
| | Zachary Allan Bauman  
| | Jalen Jessie Beck  
| | Jeremy Howard Bell  
| | Kaleb Zaide Bergman  
| | Timothy Daniel Billman  
| | Taylor James Bischof  
| | Logan Mitchell Brueck  
| | Weston Floyd Butler  
| | Dennis James Byard - Cum Laude  
| | Greta Pryor Colford - Cum Laude  
| | Marlena Aileen Daniels - Cum Laude  
| | Aaron Joseph Dean  
| | Stephen Lyle Dietrich  
| | Austin Daniel Dohse  
| | Matthew John Lehman Erickson  
| | Douglas O Fabry  
| | Conner Jamison Ford - Summa Cum Laude  
| | Joshua Michael Gentner  
| | Joshua M Gerez  
| | Jessica Ann Geroux  
| | Cassandra Michelle Gietek  
| | Steven Frank Golm - Magna Cum Laude  
| | Alexander John Gorcyca  
| | Ryan Casey Groves  
| | Nicholas Jared Harmsen - Summa Cum Laude  
| | Matthew Cantrell Hays  

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Jacob W Herzog
Dustin Shawn Hitchings
John Joseph Hoffman
Joseph Angelo Hurford
Victor Medell Ierulli
Todd Alex Impola - Magna Cum Laude
Nicholas Spencer Irwin
Michael Maloney James
Chenguang Jin
Andrew Scott Johnson - Cum Laude
Brandon Johann Alexandre Johnson
Clark Alan Kangas
Michael Dennis Kennedy
Leroy Taylor Kincannon - Summa Cum Laude
Rachel Kailey Kolb
Christian S Koszewski
Alexandra Gabrielle Krisztian
Daniel Jerome LaCroix - Summa Cum Laude
Scott Edward Laiho
Brandt Harrison Lanser
Brendan John Lefebvre
Justin John Lerma
Andrew Steven Luchenbach - Summa Cum Laude
Matthew Allan McInerney
Mendel Gregory Meister
Lucas John Meyer - Cum Laude
Adam Michael Michaud
Robert Theodore Mikula-Malstrom
Alexander Rogers Miller
Tyler James Miller
Adam Daniel Mitchell
Jeffrey John Mott
Armand Anthony Mucci - Cum Laude
Brandon T Narodzonek
Hannah Jo Nelson
James Paul Noble
Benjamin Eric Palmer
Justin Patrick Pearl
Shawn Allan Peterson
Sabrina J Pflanzer
Brian Zachary Piechocki - Cum Laude
Levi Aaron Pietila
Carson Christopher Price - Cum Laude
Spencer Patrick Reames
Taylor Chadderdon Reed - Cum Laude
Michigan Technological University
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Thomas Joseph Richter
Brian Paul Roman
Bryant James Rowe
Marshall Manning Sayles
Laura K Schimmel - Cum Laude
Alec Benjamin Schmoll
Christopher Steven Schultz
Brayden Charles Severt - Cum Laude
Devon Jay Smith
Maxwelle Alexander Smith
Daniel William Thomas Stapley - Cum Laude
Cora Jane Taylor
Matthew Jared Thompson - Magna Cum Laude
Collin Judd Triick
Jackson Dean Troin
Courtney Elizabeth VanWagoner
Michael Alan Vennard - Cum Laude
Sivakumar Dinesh Vigneshwar
Julia T Vu
Alan James Wilson - Summa Cum Laude
Andrew John Wunderlin
Gabriel Richard Wykle
Duo Zhang

Bachelor of Science in Mechanical Engineering Technology
Benjamin Robert Bartosh
Miakel Sheridan-Gilbert Bixler
Drew Johnathon Bonnee
Bradley Daniel Byrne
Russell D Crofton
Brian Michael Gronevelt
Sean K Gustafson
Christopher Lee Horger-Hill
Ryan M Hulbert
Connor Patrick King
David Geyer Kloiber - Cum Laude
Thomas Anthony Klonowski
Shawn Robert Kroll
Jooyeol Lee
Jacob Daniel Lundin
Brent M Marcusen
Josh John Meierhofer
Heather Elainah Mensch
Alexander Steven Nyhoff
Nicholas Schmulbach Schaefer
Adam C Scholl - Cum Laude
James Robert Stine
Michigan Technological University
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Bachelor of Science in Medical Laboratory Science
Monica Kay Vine
Joshua Gale Bowman
Allison Haley Branch
Kaycee Ann Kolar
Caitalyn Heather Nielson

Bachelor of Science in Psychology
Ashley Ann DeVoge
Margrethe Grace Fisher
Jennifer R McDonald - Cum Laude
Darby Hammond McLaurin
Sara Sandra Pietila
Samantha June Verran

Bachelor of Science in Scientific and Technical Communication
Xena Leigh Cortez
Noah K Kozminski
Brianna Lynn Neeb

Bachelor of Science in Social Sciences
Peter Steven Mayer

Bachelor of Science in Software Engineering
Richard Lee Carpenter
Joshua Lee Fosdick - Summa Cum Laude
Nicholas Lee Fosdick - Summa Cum Laude
Brett Andrew Kriz
Marcus Anthony Stojcevich - Summa Cum Laude
Daniel Kenneth Wagner
Eric Richard Widmann - Magna Cum Laude
Bryce E Williams
Logan Scott Wilson

Bachelor of Science in Sports and Fitness Management
Austin Richard Johnson
Daniel Harrison Perrault

Bachelor of Science in Surveying Engineering
Kyle Thomas Hiltunen - Magna Cum Laude

Bachelor of Science in Theatre and Entertainment Technology
Luke Degen Dixon

Bachelor of Science in Wildlife Ecology and Management
Ashley P Berton - Magna Cum Laude
Scott Michael Davison
Emily Rose Fifelski
Nathan Aaron Kriger

Doctor of Philosophy in Applied Cognitive Science and Human Seyedeh Maryam Fakhr Hosseini

Doctor of Philosophy in Atmospheric Sciences
Janarjan Bhandari
Neel Uday Desai

Doctor of Philosophy in Biochemistry and Molecular Biology
Roba Bdeir
Jeffrey D Kiiskila
Trevor H Moser

Doctor of Philosophy in Biomedical Engineering
Ameya Ravindra Narkar

Doctor of Philosophy in Chemical Engineering
Richard James Machiela
Mingxi Fang
Shanshan Hou

Doctor of Philosophy in Civil Engineering
Sangpil Ko
Shuaidong Zhao

Doctor of Philosophy in Computer Engineering
Yachen Tang
Doctor of Philosophy in Electrical Engineering
Casey Dennis Demars
Paniz Khammohammadi Hazaveh
Mehrzad Mohammadi Bijaieh
Jingyuan Wang
Zhiyuan Yang

Doctor of Philosophy in Engineering - Environmental Engineer
Mohammad Alizadeh Fard
Aditya Kumar
Zhmin Song

Doctor of Philosophy in Environmental and Energy Policy
John Bradley Barnett

Doctor of Philosophy in Forest Molecular Genetics and Biotech
Wenping Deng

Doctor of Philosophy in Geological Engineering
Priscilla Efua Addison

Doctor of Philosophy in Geology
Hans N Lechner

Doctor of Philosophy in Integrative Physiology
Matthew Allen Kilgas

Doctor of Philosophy in Mechanical Engineering - Engineering
Mufaddel Zohar Dahodwala
Edward De Jesus Rivera
Muhammed Rifat Imam
Bingxi Li
John Joseph Salvato

Doctor of Philosophy in Physics
Dolendra Karki
Kevin Waters
Mingxiao Ye

Master of Business Administr. in Business Administration
Samantha Michele Auger
Brent Andrew Baltus
Jannah Rae Brandt
Jacob David Brown
Jenna Morgan Burns
Aoi Buto
Amanda Caldwell
Ellaina E Cook
Jason Frood Hawke
Courtney Rose Holzberger
Brandon Michael Hutchinson
Corey Michael Labissoniere
Garrett Patrick Mitchell
Daniel J Schlais
Alex Michael Sherbinow

Master of Forestry in Forestry
Jarrod Lee Amundson
Joseph Johnson
Garret Lee Price

Master of Geographic Info Sci in Geographic Information Science
Parth Parimalbhai Bhatt
Danielle Rupp

Master of Science in Accounting
Gina Marie Roose
Lihua Zhang

Master of Science in Applied Cognitive Science and Human Fac
Erin Nicole Richie
Kaitlyn Marie Roose
Michigan Technological University
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Master of Science in Applied Ecology
Megan Minnie Cleaver

Master of Science in Applied Natural Resource Economics
Mo Li
Karl Enrike Palm

Master of Science in Applied Physics
Brandon D Blasiola

Master of Science in Biological Sciences
Msharee Saleh F Alrashedy
Timothy Michael Butler

Master of Science in Biomedical Engineering
Reis Guthrie Mielke Jones
Tithi Vinendra Tiwari

Master of Science in Applied Natural Resource Economics
Karl Enrike Palm

Master of Science in Chemical Engineering
Michael Scott Archambo
Xi Chen
Sanaz Habibi
Rishab Patil

Master of Science in Civil Engineering
Jessica Kathryn Daignault
Jacob Allen Loew
Madison Nicole Olmstead

Master of Science in Computer Engineering
Deepak Reddy Danda
Vincent Thomas Druschke

Master of Science in Computer Science
Jiban Krishna Adhikary
Joshua Richard Marshall
James Steven Roznick
Mark Charles Schlax

Master of Science in Data Science
Karen Marie Colbert
Akshara Coomar
Utkarsha Negi
Rohith Pagadala
Belle Pandya
Sucheta Vinayak Sadalgekar
Sivaramakrishnan Sriram
Abdullah Tahir

Master of Science in Electrical Engineering
Himanshu A Barapatre
Anindya Ghoshroy
Jonathan Eddier Goldsworthy
Yuancheng He
Hui Huang
Nikunj M Mathukiya
Mehrzad Mohammadi Bijaieh
Yuzhou Tang
Pratik Shrinivas Tuplondhe
Shweta Sanjay Vetal
Zhouquan Wu

Master of Science in Environmental Engineering
Terrianna Lynn Bradley
Erica A Coscarelli
Qiuyuan Nan
Margaret Neff
Jaya Sanjay Shirke
Michigan Technological University
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<table>
<thead>
<tr>
<th>Degree</th>
<th>Name</th>
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<tbody>
<tr>
<td>Master of Science in Environmental Engineering Science</td>
<td>Emily Shaw</td>
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<tr>
<td>Master of Science in Forest Ecology and Management</td>
<td>Tugay Demiraslan</td>
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<tr>
<td>Master of Science in Forestry</td>
<td>Thomas John Nara</td>
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<tr>
<td>Master of Science in Geophysics</td>
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<td>Master of Science in Integrated Geospatial Technology</td>
<td>Jer Yu Jeng</td>
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<td>Master of Science in Kinesiology</td>
<td>Erin Lynn Jean</td>
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<td>Master of Science in Materials Science and Engineering</td>
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<td>Peter Johannes Hokeimeir-Seim</td>
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<td>Master of Science in Medical Informatics</td>
<td>Jacob James Blazejewski</td>
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<td>Nitisha Ahuja</td>
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<td>Vinicius Bonfochi Vinhaes</td>
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<tr>
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<td>Sampath Kumar Reddy Boyapally</td>
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<tr>
<td>Master of Science in Statistics</td>
<td>Xiaqing Gao</td>
</tr>
</tbody>
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*Addendum to Conferral: Jacob Braykovitch Park degree awarded for term Spring 2016
Michigan Technological University, Registrar's Office 07-Feb-2019
VI. ACTION/DISCUSION ITEMS

A. Employee Recognition
B. Exclusion Resolution for the Department of Defense
C. Revision of Board Policy 12.2 Building & Property Rules & Regulations
D. Revision of Board Ordinance No. 3-Control of Pets
E. 2019-2020 Room and Board and Apartment Rental Rates
F. Resolution Authorization for Approval of H-STEM Engineering and Health
   Technologies Complex – Phase I Planning and Design
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 of Appreciation for the following individuals:

1.) Roberta Dessellier – 43 years of service
2.) Donald Wareham – 41 years of service
VI-B. EXCLUSION RESOLUTION FOR DEPARTMENT OF DEFENSE

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

RECOMMENDATION: That the Board of Control adopts the Exclusion Resolution as presented herein.
I, Richard J. Koubek, do hereby certify that I am President of Michigan Technological University, a Michigan educational institution organized and existing under the laws of the State of Michigan, and that the following is a true and correct copy of a resolution adopted by the Board of Trustees of Michigan Technological University at a meeting held at Michigan Technological University on Friday, March 1, 2019 at which time a quorum was present.

EXCLUSION RESOLUTION

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

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

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

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

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

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>John U. Bacon</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>William L. Johnson</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Linda D. Kennedy</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Jeffrey C. Littmann</td>
<td>Board of Trustees Member</td>
</tr>
<tr>
<td>Steven M. Tomaszewski</td>
<td>Board of Trustees Member</td>
</tr>
</tbody>
</table>

IN WITNESS WHEREOF I have hereunto set my hand and affixed the seal of Michigan Technological University on this Date: ____________________

__________________________
Richard J. Koubek
President, Michigan Technological University
VI-C. REVISION TO BOARD POLICY 12.2. BUILDING AND PROPERTY RULES AND REGULATIONS

The proposed changes are shown in the highlighted paragraphs of the attached document.

RECOMMENDATION: That the Board of Trustees amends Board Policy 12.2. Building and Property Rules and Regulations as presented.
2.2 BUILDING AND PROPERTY RULES AND REGULATIONS

1. Smoking and all tobacco use is prohibited except where approval is granted by the Chief Financial Officer.

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 Control on alcoholic beverages.

3. Solicitation, advertising, or sales on property owned or controlled by Michigan Technological University is prohibited unless authorized by the Chief Financial Officer. The exceptions to this are:
   a. 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.
   b. 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 Chief Financial Officer or a delegated representative, with the following exceptions:
   a. Announcements regarding the operation of a facility may be authorized by the manager of the building or grounds on which the announcements are made.
   b. Announcements regarding traffic, health, or safety may be authorized by the Department of Public Safety and Police Services.
   c. 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 in any university structure, except as authorized by the Chief Financial Officer. The exceptions to this are:
   a. Animals owned or maintained by Michigan Technological University for educational or research purposes after receiving the approval of such facilities by the Provost and Senior Vice President for Academic Affairs.
   b. Animals and aquariums may be kept in University housing facilities after receiving the approval from the Vice President for Student Affairs and Advancement.
   c. 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. Animals on any property owned, possessed, held or controlled by the Michigan Technological University Board of Trustees must be licensed (if appropriate), have a record of compliance with required vaccinations, be under the owners' control at all times, and not be allowed to leave behind any wastes.

9. 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.

10. This policy shall be administered in accordance with rules and procedures established by the Chief Financial Officer.

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq., MCL 390.363 et seq., or MCL 752.581 et seq. as applicable.

The amended policy shall read as follows:

2.2 BUILDING AND PROPERTY RULES AND REGULATIONS

1. Smoking and all tobacco use is prohibited except where approval is granted by the Chief Financial Officer.
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 Control on alcoholic beverages.

3. Solicitation, advertising, or sales on property owned or controlled by Michigan Technological University is prohibited unless authorized by the Chief Financial Officer. The exceptions to this are:
   a. 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.
   b. 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.

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   a. Announcements regarding the operation of a facility may be authorized by the manager of the building or grounds on which the announcements are made.
   b. Announcements regarding traffic, health, or safety may be authorized by the Department of Public Safety and Police Services.
   c. 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.

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7. For reasons of health and sanitation, cats, dogs, birds, or other pets or animals are prohibited in any university structure. The exceptions to this are:
   a. Animals owned or maintained by Michigan Technological University for educational or research purposes after receiving the approval of such facilities by the Provost and Senior Vice President for Academic Affairs.
   b. Animals and aquariums kept in University housing facilities after receiving the approval from the Vice President for Student Affairs and Advancement.
c. 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. Animals on any property owned, possessed, held or controlled by the Michigan Technological University Board of Trustees must be licensed (if appropriate), have a record of compliance with required vaccinations, be under the owners' control at all times.

9. 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.

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HISTORY
09/27/89
12/17/94
02/06/76
10/14/77
01/28/82
11/21/86 Smoking prohibited
09/18/92 Changed responsibility
08/03/00 Changed Executive Vice President and Provost title to Provost and Senior Vice President for Academic and Student Affairs
07/15/2010 Was previously Policy 15.6. Renumbered, changed responsibility to the Vice President for Administration except for item 8a and to correlate with the Ordinance language, added "This Policy constitutes a Rule. ...."
9/19/2013 Prohibited smoking and all tobacco use, updated procedures for advertising, and changed responsibility.
08/07/14 Revised language in item #7c.
08/06/15 Revised applicable sections of statutory law.
10/14/16 Revised language in item #8
08/01/2018 Changed Titles.
03/01/19 Added language regarding animals on campus.
VI-D. REVISION OF BOARD ORDINANCE NO. 3 – CONTROL OF PETS

The proposed changes are shown in the highlighted paragraphs of the attached document.

RECOMMENDATION: That the Board of Trustees approve Ordinance No. 3 as presented. Upon approval of this Ordinance, it will take immediate effect.
Revised items as follows:

ORDINANCE NO. 3 - CONTROL OF PETS

A REGULATION REGARDING THE BRINGING OR KEEPING OF ANIMALS ON UNIVERSITY PROPERTY TO PROHIBIT THE BRINGING OR KEEPING OF ANIMALS INCLUDING DOGS, CATS, BIRDS, RATS, MICE, MONKEYS, GERMILS, AND RABBITS ON UNIVERSITY PROPERTY

No person shall bring, keep, or possess any animal, including but not limited to, dog, cat, bird, rat, mouse, monkey, gerbil, reptile, or rabbit, into any property owned, possessed, held, or controlled by the Michigan Technological University Board of Control Trustees in Houghton County except:

1. Guide, Leader, Hearing, or Service Dogs 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 or a trained handler, in compliance with State or Federal law;

2. Animals owned or possessed and maintained by Michigan Technological University for educational or research purposes; or

3. Specific exceptions authorized by the Provost and Vice President for Academic Affairs, according to Board of Trustees Policy 12.2.

Animals on any property owned, possessed, held, or controlled by the Michigan Technological University Board of Trustees must be licensed (if appropriate), have a record of compliance with required vaccinations, be under the owners’ control at all times, and not be allowed to leave behind any wastes.

This Ordinance shall become effective on its publication in The Daily Mining Gazette, Houghton, Michigan. Copies of the said Ordinance shall be made available at the Department of Public Safety and Police Services and at the office of the Secretary of the Board of Control Trustees of Michigan Technological University.
The amended policy shall read as follows:

ORDINANCE NO. 3 - CONTROL OF PETS

A REGULATION REGARDING THE BRINGING OR KEEPING OF ANIMALS ON UNIVERSITY PROPERTY

No person shall bring, keep, or possess any animal, including but not limited to, dog, cat, bird, rat, mouse, monkey, gerbil, reptile, or rabbit, into any property owned, possessed, held, or controlled by the Michigan Technological University Board of Trustees in Houghton County except:

1. Guide, Leader, Hearing, or Service Dogs or Animals trained to perform the work or task required by the user's disability when used by a qualified individual with a disability or a trained handler, in compliance with State or Federal law;
2. Animals owned or possessed and maintained by Michigan Technological University for educational or research purposes; or
3. Specific exceptions authorized according to Board of Trustees Policy 12.2.

Animals on any property owned, possessed, held, or controlled by the Michigan Technological University Board of Trustees must be licensed (if appropriate), have a record of compliance with required vaccinations, be under the owners' control at all times, and not be allowed to leave behind any wastes.

This Ordinance shall become effective on its publication in The Daily Mining Gazette, Houghton, Michigan. Copies of the said Ordinance shall be made available at the Department of Public Safety and Police Services and at the office of the Secretary of the Board of Trustees of Michigan Technological University.

HISTORY

Prior: 03/20/81
01/28/82
01/28/83
09/18/92
08/03/2000 Changed Executive Vice President and Provost title to Provost and Senior Vice President for Academic and Student Affairs
05/04/2007 Replaced the reference to Guide Dogs with one including other Service Animals as defined by Michigan and Federal laws, regulations and guidelines, and changed Provost title.

Adopted: 08/07/14 Revised language in item #1.
03/01/19 Revised language item #1, #3, and added paragraph two.
VI-E. 2019-2020 ROOM AND BOARD AND APARTMENT RENTAL RATES

Michigan Tech Housing & Residential Life, Facilities Management, and Dining Services are committed to providing exceptional facilities and an aesthetically pleasing on-campus community that values academic success and friendship. Our on-campus community includes high quality and diversified dining services and housing alternatives that offer opportunities for learning and personal growth in a safe and comfortable environment.

The recommended schedule of residence hall room and board rates, Hillside Place Apartments rates and Daniell Heights Apartments rates for 2019-2020 are included herein.

Housing & Residential Life, Facilities Management and Dining Services are recommending approval of these rates, with the confidence our staff will continue to provide the type of innovative management and student development that has permitted Michigan Tech to attract, retain and support a world-class student population.

RECOMMENDATION: That the Board of Trustees approves the recommended residence hall housing and meal, as well as apartment rental rates for 2019-2020.
# Audit and Finance Committee | Board of Trustees | November 2018

**Douglass Houghton Hall, McNair Hall, Wadsworth Hall**

Occupancy Dates: August 24, 2019 - December 21, 2019 and January 11, 2020 - May 2, 2020

<table>
<thead>
<tr>
<th>Housing (Regular Occupancy) and Dining</th>
<th>2018-2019 Housing &amp; Gold Plan Dining</th>
<th>Proposed Increase</th>
<th>2019-2020 Housing &amp; Unlimited Dining</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wadsworth Hall and McNair Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double Occupancy</td>
<td>$ 10,726</td>
<td>$ 310</td>
<td>$ 11,036</td>
<td>2.89%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td>$ 12,183</td>
<td>$ 310</td>
<td>$ 12,493</td>
<td>2.54%</td>
</tr>
<tr>
<td>Triple/Quad Occupancy</td>
<td>$ 10,540</td>
<td>$ 310</td>
<td>$ 10,850</td>
<td>2.94%</td>
</tr>
<tr>
<td>Wadsworth Hall w/ private bath</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double Occupancy</td>
<td>$ 11,470</td>
<td>$ 310</td>
<td>$ 11,780</td>
<td>2.70%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td>$ 13,268</td>
<td>$ 310</td>
<td>$ 13,578</td>
<td>2.34%</td>
</tr>
<tr>
<td>Douglass Houghton Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Occupancy (Double and Quad)</td>
<td>$ 10,540</td>
<td>$ 310</td>
<td>$ 10,850</td>
<td>2.94%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td>$ 12,183</td>
<td>$ 310</td>
<td>$ 12,493</td>
<td>2.54%</td>
</tr>
<tr>
<td>Housing (Reduced/Temporary Occupancy) and Dining</td>
<td>2018-2019 Housing &amp; Gold Plan Dining</td>
<td>Proposed Increase</td>
<td>2019-2020 Housing &amp; Unlimited Dining</td>
<td>Percent Change</td>
</tr>
<tr>
<td>Temporary Housing</td>
<td>$ 8,866</td>
<td>$ 310</td>
<td>$ 9,176</td>
<td>3.50%</td>
</tr>
<tr>
<td>Quad to 2</td>
<td>$ 11,036</td>
<td>$ 310</td>
<td>$ 11,346</td>
<td>2.81%</td>
</tr>
<tr>
<td>Quad to 3/Quad to 2</td>
<td>$ 10,664</td>
<td>$ 310</td>
<td>$ 10,974</td>
<td>2.91%</td>
</tr>
<tr>
<td>Triple to 1</td>
<td>$ 12,183</td>
<td>$ 310</td>
<td>$ 12,493</td>
<td>2.54%</td>
</tr>
<tr>
<td>Wads Quad to 2</td>
<td>$ 11,129</td>
<td>$ 310</td>
<td>$ 11,439</td>
<td>2.79%</td>
</tr>
<tr>
<td>Wads Quad to 3</td>
<td>$ 10,943</td>
<td>$ 310</td>
<td>$ 11,253</td>
<td>2.83%</td>
</tr>
<tr>
<td>Triple Suite to 2</td>
<td>$ 11,873</td>
<td>$ 310</td>
<td>$ 12,183</td>
<td>2.61%</td>
</tr>
<tr>
<td>DHH Quad Suite to 3</td>
<td>$ 11,873</td>
<td>$ 310</td>
<td>$ 12,183</td>
<td>2.61%</td>
</tr>
</tbody>
</table>

Unlimited Dining has $200 dining dollars and 8 guest meal swipes per semester. Guest meal swipes expire at the end of the semester. Dining Dollars carry over from fall to spring semester. Dining Dollars expire at the end of the spring semester.

* Rate reported to US Department of Education Integrated Postsecondary Education Data System

**Hillside Place Residence Hall**

Occupancy Dates: August 24, 2019 - December 21, 2019 and January 11, 2020 - May 2, 2020

<table>
<thead>
<tr>
<th>Single Bedroom and Meal Rate</th>
<th>2018-2019 Housing &amp; 150 Block Dining</th>
<th>Proposed Increase</th>
<th>2019-2020 Housing &amp; 150 Block Dining</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Bedroom in Shared Apartment</td>
<td>$ 11,340</td>
<td>$ 570</td>
<td>$ 11,910</td>
<td>5.03%</td>
</tr>
<tr>
<td>Single Bedroom Apartment</td>
<td>$ 12,010</td>
<td>$ 675</td>
<td>$ 12,685</td>
<td>5.62%</td>
</tr>
</tbody>
</table>

Renewing Hillside Place residents are eligible for the 75 Meal Block meal plan, rate as recommended above, minus $1060.

Block meal plans are only available for the Hillside Place. Meals expire at the end of each semester. Unlimited Dining plan is available.

**Daniell Heights Apartments**

Lease Agreement Dates: July 1, 2019 to June 30, 2020 or August 15, 2019 to June 30, 2020

<table>
<thead>
<tr>
<th>Monthly Rental Rate</th>
<th>2018-2019</th>
<th>Proposed Increase</th>
<th>2019-2020</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Rates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Bedroom</td>
<td>$ 705</td>
<td>$ 15</td>
<td>$ 720</td>
<td>2.13%</td>
</tr>
<tr>
<td>Two Bedroom</td>
<td>$ 1,000</td>
<td>$ 20</td>
<td>$ 1,020</td>
<td>2.00%</td>
</tr>
<tr>
<td>Three Bedroom</td>
<td>$ 1,260</td>
<td>$ 30</td>
<td>$ 1,290</td>
<td>2.38%</td>
</tr>
<tr>
<td><strong>University Employee Rates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Bedroom</td>
<td>$ 880</td>
<td>$ 20</td>
<td>$ 900</td>
<td>2.27%</td>
</tr>
<tr>
<td>Two Bedroom</td>
<td>$ 1,080</td>
<td>$ 35</td>
<td>$ 1,115</td>
<td>3.24%</td>
</tr>
<tr>
<td>Three Bedroom</td>
<td>$ 1,375</td>
<td>$ 50</td>
<td>$ 1,425</td>
<td>3.64%</td>
</tr>
</tbody>
</table>
VI-F. RESOLUTION AUTHORIZATION FOR H-STEM ENGINEERING AND HEALTH TECHNOLOGIES COMPLEX – PHASE I PLANNING AND DESIGN

The Michigan Legislature has granted planning authorization for Michigan Technological University’s H-STEM Engineering and Health Technologies Complex – Phase I. The proposed facility, as presented in the FY 2020 Five-Year Capital Outlay Plan and FY 2020 Capital Project Request, is a $44,700,000 project. $29,700,000 million will be funded through State support, with a $15,000,000 match by Michigan Tech. Approval for the expenses of the planning and design phase is needed. Upon completion of planning and design we anticipate seeking Board of Trustees approval to authorize construction.

RECOMMENDATION: That the Board of Trustees approves the expenditures to complete planning and design for the H-STEM Engineering and Health Technologies Complex – Phase I at a cost not to exceed $3,100,000.
VII. REPORTS

A. Undergraduate Student Government Report
   Max Sexauer, President

B. Graduate Student Government Report
   Apurva Baruah, President

C. Finance and Budget Report
   Ms. Julie Seppala, Vice President for Finance

D. University Senate Report
   Dr. Michael Mullins, President

E. Faculty Presentation
   Dr. Richelle Winkler, Department of Social Sciences
USG Update

March 1st, 2019
Max Sexauer, USG President
Agenda

- Student Affairs Initiatives
- 1UP Conference
Student Affairs Initiatives
Student Affairs Initiatives

- Career Fair Recess Proposal
  - Proposal asks for a recess from classes for 2 hours during career fair
  - Asks Career Services to move our fall career fair forward two hours
    - Combined with minimal classes scheduled during dinner hours, ~ 4 hours class free
  - Proposal was voted on by USG Wednesday 2/27
Student Affairs Initiatives

- Student Evaluations
  - Concern brought to USG about who can see student evaluations
  - Recommendation to Senate Student Evaluations Committee:
    - Allow deans and department chairs access to student evaluations
  - Currently in committee with the Senate
Student Affairs Initiatives

● US-41 Expansion
  ○ MDOT currently planning on expanding US-41 down College Ave.
  ○ SA Committee chair asked Student Commissions if there could be a student info session
    ■ Student Commissions wanted to make sure that parties affected the most invited
  ○ MDOT hosted the info session, took place Thursday 2/28
1UP Conference
1UP Conference

- Invited to attend 1UP conference on Feb. 16th
- MTU Delegation asked to give presentation at this conference
  - Finding Your Why
- Takeaways:
  - We brought our student org funding knowledge
  - They brought ideas for collecting student feedback
Questions?
Graduate Student Government of Michigan Tech

Apurva Baruah

March 01 2019

Board of Trustees
Michigan Technological University
Enrichment & Collaboration

Professional Development Workshops

- Graduate Student Networking
- Effective Negotiation Strategies
- Exploring career pathways & options

Academic Seminars

- Innovation and Entrepreneurship
- Grant Writing

Graduate Research Colloquium (GRC)

- Oral and poster presentations - March 27 and 28.
- Graduate Awards Banquet - evening of March 28.
  - Awards presented - Graduate School awards, GSG awards and GRC presentation awards.
Enrichment & Collaboration

Travel Grant Program

- Spring 2019: In progress
Community

Competitive Laser Tag

Grad Movie Night

GSG Grad Movie Weekend!
Free tickets and popcorn for grad students and their families!
Location - Fisher 135

Friday, 21:
5:30 PM 8:30 PM 11:30 PM
Saturday, 22:
2:30 PM 5:30 PM 8:30 PM 11:30 PM
Sunday, 23:
2:30 PM 5:30 PM
Advocacy

➔ Transparency in Tech Forward task forces
Finance & Budget Report
Board of Trustees Meeting
March 01, 2019
Overview

- Condensed Statement of Net Position
- Condensed Statement of Revenues, Expenses & Changes in Net Position
- General and Current Fund Projected Revenues & Expenses
### Balance Sheet
#### Condensed Statement of Net Position
##### as of December 31, 2018
(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>$ 97,744</td>
<td>$ 8,047</td>
<td>$ 105,791</td>
</tr>
<tr>
<td>Noncurrent Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>236,528</td>
<td>-</td>
<td>236,528</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>56,884</td>
<td>143,361</td>
<td>200,245</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$ 391,156</strong></td>
<td><strong>$ 151,408</strong></td>
<td><strong>$ 542,564</strong></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>$ 6,524</td>
<td>-</td>
<td>$ 6,524</td>
</tr>
<tr>
<td><strong>Total Deferred Outflows of Resources</strong></td>
<td>$ 6,524</td>
<td>-</td>
<td>$ 6,524</td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$ 101,105</td>
<td>$ 1,504</td>
<td>$ 102,609</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>177,378</td>
<td>5,270</td>
<td>182,648</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td><strong>$ 278,483</strong></td>
<td><strong>$ 6,774</strong></td>
<td><strong>$ 285,257</strong></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>$ 2,583</td>
<td>-</td>
<td>$ 2,583</td>
</tr>
<tr>
<td><strong>Total Deferred Inflows of Resources</strong></td>
<td>$ 2,583</td>
<td>-</td>
<td>$ 2,583</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>$ 144,334</td>
<td>-</td>
<td>$ 144,334</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>(27,720)</td>
<td>144,634</td>
<td>116,914</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td><strong>$ 116,614</strong></td>
<td><strong>$ 144,634</strong></td>
<td><strong>$ 261,248</strong></td>
</tr>
</tbody>
</table>
### Income Statement

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

**As of December 31, 2018**

*(in thousands)*

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Revenues</strong></td>
<td></td>
</tr>
<tr>
<td>Student Tuition and fees</td>
<td>$70,751</td>
</tr>
<tr>
<td>Grants and Contracts</td>
<td>$23,420</td>
</tr>
<tr>
<td>Educational Activities</td>
<td>$2,815</td>
</tr>
<tr>
<td>Department Activities</td>
<td>$5,604</td>
</tr>
<tr>
<td>Student Residence fees</td>
<td>$13,803</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td>$116,393</td>
</tr>
<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$66,547</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$21,017</td>
</tr>
<tr>
<td>Student Financial Support</td>
<td>$33,026</td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>$37,802</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td>$158,392</td>
</tr>
<tr>
<td><strong>Non Operating Revenues</strong></td>
<td>$22,513</td>
</tr>
<tr>
<td><strong>Other Revenues</strong></td>
<td>$1,803</td>
</tr>
<tr>
<td><strong>Change in Net Position</strong></td>
<td>$(17,683)</td>
</tr>
<tr>
<td><strong>Net Position, Beginning</strong></td>
<td>$278,931</td>
</tr>
<tr>
<td><strong>Net Position, End</strong></td>
<td>$261,248</td>
</tr>
</tbody>
</table>
# FY 2019 General Fund and Current Fund

Projected vs Actual Revenues, Expenses & Change in Net Assets

(in thousands)

<table>
<thead>
<tr>
<th></th>
<th>GENERAL FUND</th>
<th>CURRENT FUND</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adjusted Budget 2nd Quarter</td>
<td>Original * 2nd Quarter</td>
</tr>
<tr>
<td></td>
<td>As of Dec 2018 Projection</td>
<td>Projection</td>
</tr>
<tr>
<td>Revenues</td>
<td>$ 212,659 $210,576</td>
<td>$ 309,681 $307,376</td>
</tr>
<tr>
<td>Expenses</td>
<td>$(212,659) $(208,783)</td>
<td>$(308,220) $(309,170)</td>
</tr>
<tr>
<td>Change in Net Assets</td>
<td>$ - $1,793</td>
<td>$ 1,461 $ (1,794)</td>
</tr>
</tbody>
</table>

*Original projection did not include estimates for investment income or pension expense.

Note: Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.
Thank You
Recent Senate Approved Proposals

• 2-19: Revision to Policy 104.1 Developing Academic Policy at MTU
• 4-19: Expanded Endowment for Graduate Support
• 8-19: Sabbatical Leave for Lecturer Track Faculty
• 10-19: Modification of Graduate Faculty Status in Faculty Handbook
• 11-19: Procedure for Review of Graduate Faculty Status
• 12-19: Establish a Policy on the Quality of Online Courses
• 14-19: Proposal to Shelve Certificate Program: Teaching English to Speakers of Other Languages (TESOL)
• 15-19: Proposal to Shelve Minor Program: Teaching English to Speakers of Other Languages (TESOL)
• 17-19: Proposal for a New Concentration in Data Analytics Within the B.S. in Accounting
Senate Proposals Pending

- 5-19: Revised Policy on Compensation of Senate Officers
- 10-19: Modification of Graduate Faculty Status in Faculty Handbook
- 11-19: Procedure for Review of Graduate Faculty Status
- 13-19: Proposal for Minor in Forest Biomaterials
- 16-19: Minor in Business
- 24-19: Proposal for a new Master's in Engineering Management
- 28-19: Modify Class Start Times
- 29-19: Proposal to Reinstate (Unshelve) the Bachelor of Science Degree in Mining Engineering
- 30-19: Proposal for a Master of Science in Mechatronics
- 31-19: Chemistry Department Charter
- 32-19: Revision to Senate Policy 411.1: Graduate Certificates
- 33-19: Proposal for a Graduate Certificate in Mechatronics
- XX-19: Academic rank librarian appointments
- XX-19: Bi-Monthly Pay Periods
- XX-19: Enhance Retirement Benefits
- XX-19: Modification of TRIP Benefit
- University support for the current defined contribution retirement plan has decreased by over (41%) in the past decade, and now nearly all peer institutions provide more competitive retirement plans.

- Staff and faculty wage increases have not kept up with inflation.

- The trend over the past decade has been to shift the increasing cost of benefits to employees.

- To attract and retain talented faculty and staff in the increasingly challenging environment of higher education, a broader, more inclusive perspective on benefits is needed.

- Constitute a University Benefits Planning Committee, comprised of elected individuals from across the various University constituencies, charged with reviewing, evaluating, and recommending strategies for benefits planning (see upcoming FBC proposal).
University costs related to medical benefit expenditures and total employee benefit costs to the University have declined over this period when adjusting for inflation, despite the continued rising cost of health care nationally (22.5% since 2001) and in spite of adding 12% more faculty and staff. This means that employees have absorbed the majority of rising health care costs.

**Table 9.** Medical benefit claims paid by Michigan Tech (fiscal year based on audited financial statements, net of employee premiums). (Source: University Senate Financial Overview, University Senate, Michigan Technological University, December 2018).

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Actual Expenditure</th>
<th>Expenditure in 2008 Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$13,875,743</td>
<td>$13,875,743</td>
</tr>
<tr>
<td>2009</td>
<td>$13,980,633</td>
<td>$14,339,530</td>
</tr>
<tr>
<td>2010</td>
<td>$14,310,670</td>
<td>$14,302,470</td>
</tr>
<tr>
<td>2011</td>
<td>$14,748,919</td>
<td>$14,503,570</td>
</tr>
<tr>
<td>2012</td>
<td>$15,735,827</td>
<td>$15,034,420</td>
</tr>
<tr>
<td>2013</td>
<td>$14,377,991</td>
<td>$13,521,240</td>
</tr>
<tr>
<td>2014</td>
<td>$12,498,807</td>
<td>$11,571,370</td>
</tr>
<tr>
<td>2015</td>
<td>$14,475,538</td>
<td>$13,413,780</td>
</tr>
<tr>
<td>2016</td>
<td>$13,333,124</td>
<td>$12,188,150</td>
</tr>
<tr>
<td>2017</td>
<td>$14,691,242</td>
<td>$13,101,000</td>
</tr>
</tbody>
</table>
### Senate FBC Total Compensation History Report

Feb. 8, 2019

---

**Table 10.** Total employee benefit costs to Michigan Tech. *(Source: University Senate Financial Overview, University Senate, Michigan Technological University, December 2018).*

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Payments for Benefits</th>
<th>Expenditure in 2008 Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>$35,802,819</td>
<td>$35,802,819</td>
</tr>
<tr>
<td>2009</td>
<td>$35,859,251</td>
<td>$35,848,551</td>
</tr>
<tr>
<td>2010</td>
<td>$34,709,950</td>
<td>$33,811,795</td>
</tr>
<tr>
<td>2011</td>
<td>$35,124,359</td>
<td>$33,666,101</td>
</tr>
<tr>
<td>2012</td>
<td>$37,803,478</td>
<td>$35,204,191</td>
</tr>
<tr>
<td>2013</td>
<td>$34,740,933</td>
<td>$31,844,345</td>
</tr>
<tr>
<td>2014</td>
<td>$34,132,400</td>
<td>$30,800,231</td>
</tr>
<tr>
<td>2015</td>
<td>$36,256,688</td>
<td>$32,746,395</td>
</tr>
<tr>
<td>2016</td>
<td>$36,428,782</td>
<td>$32,456,176</td>
</tr>
<tr>
<td>2017</td>
<td>$38,852,584</td>
<td>$33,771,361</td>
</tr>
</tbody>
</table>
Connecting with Communities:
Transdisciplinary Scholarship for Community Solar in the Keweenaw

BOARD OF TRUSTEES: MARCH 1, 2019

Richelle Winkler, Associate Professor of Sociology & Demography, Dept of Social Sciences
Chelsea Schelly, Associate Professor of Sociology, Dept of Social Sciences
Emily Prehoda, PhD Candidate, Environmental and Energy Policy
Erin Smith, Faculty Advisor of Cin/Optic Enterprise, Visual and Performing Arts
Jay Meldrum, Executive Director of Sustainability/Director Keweenaw Research Center/AEE Faculty Advisor
Brett Niemi, Senior Energy Services Representative, WPPI Energy
Brad Barnett, Senior Planner, Western Upper Peninsula Planning and Development Region
Robert LaFave, Village Manager, L'Anse, Michigan
LeAnn LeClaire, Village Manager, Baraga, Michigan
COMMUNITY-ENGAGED SCHOLARSHIP

• Integrates research-teaching-service
• Collaborate with communities as partners
• Applied: Facilitates decision-making in real contexts
• Informs basic/generalizable research
  • important questions/issues
• Extends boundaries of campus
• Students gain skills, practice, teamwork, civic-minded
COMMUNITY SOLAR

Community investors own the solar panels (system), sell energy to the grid, and earn $ in the form of credits on their bills.
**BENEFITS & CHALLENGES**

- Increased access: renters/site
- Increased affordability
- Money saving potential
- Lower emissions
- Local energy source & local control
- Community-building
- Easy- No individual installation

- Lack of institutional and policy support
- Lack of resources/expertise
- Complicated program design
- Community skepticism/lack knowledge
- Low participation
- Affordability
THE PROBLEM

1. L’Anse & Baraga interest in community solar, but where to start?
2. Is it technically feasible here?
3. Would community support it?
4. Would enough people be able to afford to buy in and be interested enough to do it?
5. How many panels should be included?
6. How should the program be designed?

Few resources (rural).
Low-to-Moderate Income households
MTU INVOLVEMENT


• SS 3990 Topics Course: Community Solar Applications. Fall 2017. Social & Economic Feasibility in L’Anse

• 2018/2019 Cin/Optic media team documentary

• Prehoda - PhD Research & Dissertation

• Funded by Michigan Department of Agriculture and Rural Development; American Public Power Association; & U.S. Dept of Energy Sunshot Prize: Solar in Your Community Challenge
RESEARCH & ENGAGEMENT

Do people in L’anse & Baraga want community solar, and if so, how should it be designed to meet community interests and needs?

• **Key informant interviews**
• 3 community meetings
• 2 community surveys: mail and door-to-door
• Financial analysis: NPV
• Press features & presentations
FINDINGS

• Yes- people are interested!
• Concerns, but can design around them

Economics
• Must be affordable
• Investment a plus, but not critical as long as +

Community
• Pride & Identity
• Progressive/Leader
• Support locals
• Local control
• Local energy

Environment
• Green energy
• Lower emissions
• Not polluting locally
• Need to shift to renewables

N= 92
N= 50
N= 12
• L’Anse put out RFP. Currently pre-selling shares.

<table>
<thead>
<tr>
<th>Payment Plans (per panel)</th>
<th>Upfront Payment</th>
<th>Monthly Payment</th>
<th>Monthly Savings</th>
<th>Net Lifetime Savings</th>
<th>Payback Length (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Term Payment Plan**</td>
<td>$ —</td>
<td>$ 2.50/month for 25 years</td>
<td>$ 3</td>
<td>$ 150</td>
<td>21</td>
</tr>
<tr>
<td>Short Term Payment Plan</td>
<td>$ 250</td>
<td>$ 2.00/month for 10 years</td>
<td>$ 3</td>
<td>$ 410</td>
<td>14</td>
</tr>
<tr>
<td>Upfront Payment Plan</td>
<td>$ 450</td>
<td>$ —</td>
<td>$ 3</td>
<td>$ 450</td>
<td>13</td>
</tr>
</tbody>
</table>

* Savings will vary depending on actual system performance.
** Income qualifications apply to this payment plan.
OUTPUTS

• Journal articles/book chapters (2 published/another in prep)
• ## professional presentations
• 2 video documentaries (in prep- April 2019)
• Vickers: Senior Design Report (Summer 2017)
• SS 3990 Community Report (Dec 2017)
• Prehoda dissertation (Spring 2019)
OUTCOMES

• Students prepared with practical experience in emerging industry
• L’Anse (& Baraga) community members access affordable, renewable, local energy
• MTU engagement with local communities
• MTU reputation as a leader in transdisciplinary energy work
VIII. INFORMATIONAL ITEMS

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

Attached are analyses of investments as of June 30, 2018 to December 31, 2018.
### MICHIGAN TECH UNIVERSITY
**INVESTMENT PORTFOLIO**
**JUNE 30, 2018 THROUGH DECEMBER 31, 2018**

<table>
<thead>
<tr>
<th>Fund Type</th>
<th>6/30/2018 Market Value</th>
<th>12/31/2018 Market Value</th>
<th>Change</th>
<th>Fiscal-Year Investment Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Money Market Fund</td>
<td>$2,140,030</td>
<td>$2,151,309</td>
<td>$11,279</td>
<td>1.02%</td>
</tr>
<tr>
<td><strong>Equity Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Equity Fund</td>
<td>8,672,775</td>
<td>8,103,047</td>
<td>(569,728)</td>
<td>-7.49%</td>
</tr>
<tr>
<td>Commonfund Strategic Solutions Equity Fund</td>
<td>5,316,134</td>
<td>5,065,484</td>
<td>(250,650)</td>
<td>-3.10%</td>
</tr>
<tr>
<td>Total Equity Funds</td>
<td>13,988,909</td>
<td>13,168,531</td>
<td>(820,378)</td>
<td></td>
</tr>
<tr>
<td><strong>Fixed Income Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate Term Fund</td>
<td>6,348,165</td>
<td>6,452,932</td>
<td>104,767</td>
<td>1.49%</td>
</tr>
<tr>
<td>Commonfund Contingent Asset Portfolio</td>
<td>7,442,980</td>
<td>7,470,898</td>
<td>27,918</td>
<td>1.25%</td>
</tr>
<tr>
<td>High Quality Bond Fund</td>
<td>5,328,730</td>
<td>5,488,739</td>
<td>160,009</td>
<td>1.48%</td>
</tr>
<tr>
<td>Total Fixed Income Funds</td>
<td>19,119,875</td>
<td>19,412,569</td>
<td>292,694</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$35,248,814</td>
<td>$34,732,409</td>
<td>$(516,405)</td>
<td>-1.20%</td>
</tr>
</tbody>
</table>

**Current Asset Allocation**
- Money Market, 6%
- Fixed Income, 56%
- Equities, 38%
VIII-B. UNIVERSITY ISSUED BOND BALANCES

Attached is an analyses of net revenues, debt retirement, and trustee reserve funds for University Bonded Operations for the period ended December 31, 2018.
MICHIGAN TECH UNIVERSITY
OUTSTANDING BALANCES ON BOND ISSUANCES
DECEMBER 31, 2018

<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>Series 2008 Bond Issue (maturity 2038)</td>
<td>$ 5,090,000</td>
<td>$ -</td>
<td>$ 5,090,000</td>
<td>$ 15,880,000</td>
</tr>
<tr>
<td>Purchase of UPPCO Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partial Funding of KRC Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUB Ballroom Renovation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2008 Bond Issue</strong></td>
<td><strong>14,305,000</strong></td>
<td><strong>445,000</strong></td>
<td><strong>$ 14,750,000</strong></td>
<td><strong>18,235,000</strong></td>
</tr>
<tr>
<td>Series 2009A Bond Issue (maturity 2039)</td>
<td><strong>14,305,000</strong></td>
<td><strong>445,000</strong></td>
<td><strong>$ 14,750,000</strong></td>
<td><strong>18,235,000</strong></td>
</tr>
<tr>
<td>New Student Apartment Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partial Funding of KRC Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2009 Bond Issue</strong></td>
<td><strong>7,655,000</strong></td>
<td><strong>235,000</strong></td>
<td><strong>$ 7,890,000</strong></td>
<td><strong>10,975,000</strong></td>
</tr>
<tr>
<td>Series 2010A Bond Issue (maturity 2040)</td>
<td><strong>24,985,000</strong></td>
<td><strong>1,365,000</strong></td>
<td><strong>$ 26,350,000</strong></td>
<td><strong>33,070,000</strong></td>
</tr>
<tr>
<td>Great Lakes Research Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.E. Seaman Mineral Museum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRC Building Purchase (Blizzard Building)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life Safety Improvements on Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2010 Bond Issue</strong></td>
<td><strong>10,570,000</strong></td>
<td><strong>665,000</strong></td>
<td><strong>$ 11,235,000</strong></td>
<td><strong>14,265,000</strong></td>
</tr>
<tr>
<td>Series 2012A Bond Issue (maturity 2034)</td>
<td><strong>22,525,000</strong></td>
<td><strong>465,000</strong></td>
<td><strong>$ 22,990,000</strong></td>
<td><strong>24,295,000</strong></td>
</tr>
<tr>
<td>Refunding of 2003 &amp; 2004 Fixed Rate Bond Issues</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDC Ice Plant and Partial Roof of SDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Series 2012 Bond Issue</strong></td>
<td><strong>85,130,000</strong></td>
<td><strong>3,175,000</strong></td>
<td><strong>$ 88,305,000</strong></td>
<td><strong>116,720,000</strong></td>
</tr>
</tbody>
</table>

Total - All Bond Issues

**$ 85,130,000** | **$ 3,175,000** | **$ 88,305,000** | **$ 116,720,000**
VIII-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 2019**

**2nd Quarter**

**Ended December 31, 2018**

**TOTAL: $30,406,524**

### Pre-Proposals Submitted

(excluded from Proposals Submitted figures below)

<table>
<thead>
<tr>
<th>FYTD 2018:</th>
<th>FYTD 2019:</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>35</td>
</tr>
</tbody>
</table>

### Proposals Submitted vs. Awards Received

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '19 as of 12/31</th>
<th>FY '18 as of 12/31</th>
<th>FY '19 as of 12/31</th>
<th>FY '18 as of 12/31</th>
<th>Variances</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Science Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of Defense</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of Energy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of Transportation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>307</td>
<td>296</td>
<td>191</td>
<td>161</td>
<td>2,089,314</td>
<td>20,016,163</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>32</td>
<td>24</td>
<td>15</td>
<td>11</td>
<td>894,098</td>
<td>992,669</td>
</tr>
<tr>
<td>Industrial</td>
<td>155</td>
<td>116</td>
<td>111</td>
<td>89</td>
<td>4,930,406</td>
<td>4,371,217</td>
</tr>
<tr>
<td>Foreign</td>
<td>11</td>
<td>22</td>
<td>10</td>
<td>13</td>
<td>206,522</td>
<td>707,019</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>40</td>
<td>31</td>
<td>29</td>
<td>25</td>
<td>669,101</td>
<td>647,058</td>
</tr>
<tr>
<td>Subtotal</td>
<td>545</td>
<td>489</td>
<td>356</td>
<td>299</td>
<td>28,789,441</td>
<td>26,734,126</td>
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<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>149</td>
<td>138</td>
<td>1,595,244</td>
<td>1,387,593</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>6</td>
<td>2</td>
<td>21,839</td>
<td>7,456</td>
</tr>
<tr>
<td>Grand Total</td>
<td>545</td>
<td>489</td>
<td>511</td>
<td>439</td>
<td>30,406,524</td>
<td>28,129,175</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 - VIII.  Informational Items

Vice President for Research
Fiscal Year 2019
2nd Quarter
Ended Dec 31, 2018
TOTAL: $30,406,524

SPO & OIC Metrics1 Administration College of Engineering College of Sciences & Arts Great Lakes Research Center Keweenaw Research Center Michigan Tech Research Institute Pavlis Honors College School of Business & Economics School of Forest Resources & Env Science School of Technology Totals Fiscal Comparison Percent Change

<table>
<thead>
<tr>
<th>Metric</th>
<th>Administration</th>
<th>College of Engineering</th>
<th>College of Sciences &amp; Arts</th>
<th>Great Lakes Research Center</th>
<th>Keweenaw Research Center</th>
<th>Michigan Tech Research Institute</th>
<th>Pavlis Honors 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>
<th>Fiscal Comparison</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposals Submitted</td>
<td>8</td>
<td>256</td>
<td>89</td>
<td>8</td>
<td>42</td>
<td>44</td>
<td>5</td>
<td>3</td>
<td>83</td>
<td>7</td>
<td>545</td>
<td>489</td>
<td>11.5%</td>
</tr>
<tr>
<td>Awards Received</td>
<td>81</td>
<td>202</td>
<td>46</td>
<td>11</td>
<td>42</td>
<td>36</td>
<td>23</td>
<td>3</td>
<td>65</td>
<td>2</td>
<td>511</td>
<td>439</td>
<td>16.4%</td>
</tr>
<tr>
<td>Federal</td>
<td>510,487</td>
<td>2,915,141</td>
<td>118,983</td>
<td>82,409</td>
<td>711,069</td>
<td>1,333,486</td>
<td>308,675</td>
<td>-</td>
<td>137,420</td>
<td>5,000</td>
<td>1,622,670</td>
<td>5,944,261</td>
<td>3.0%</td>
</tr>
<tr>
<td>Federal Pass Through</td>
<td>510,487</td>
<td>2,915,141</td>
<td>118,983</td>
<td>82,409</td>
<td>711,069</td>
<td>1,333,486</td>
<td>308,675</td>
<td>-</td>
<td>137,420</td>
<td>5,000</td>
<td>1,622,670</td>
<td>5,944,261</td>
<td>3.0%</td>
</tr>
<tr>
<td>Foreign</td>
<td>858,220</td>
<td>386,844</td>
<td>97,477</td>
<td>13,500</td>
<td>5,000</td>
<td>1,800</td>
<td>197,150</td>
<td>500</td>
<td>31,403</td>
<td>3,350</td>
<td>1,595,244</td>
<td>1,878,593</td>
<td>15.0%</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>-</td>
<td>8908</td>
<td>11,562</td>
<td>-</td>
<td>15,722</td>
<td>-</td>
<td>-</td>
<td>1,073</td>
<td>-</td>
<td>296</td>
<td>21,839</td>
<td>7,456</td>
<td>192.9%</td>
</tr>
<tr>
<td>Industry</td>
<td>-</td>
<td>1,590,656</td>
<td>53,444</td>
<td>80,850</td>
<td>2,423,374</td>
<td>14,952</td>
<td>17,500</td>
<td>35,000</td>
<td>714,630</td>
<td>-</td>
<td>4,930,406</td>
<td>4,371,217</td>
<td>12.8%</td>
</tr>
<tr>
<td>Other</td>
<td>4,400</td>
<td>314,147</td>
<td>173,906</td>
<td>65,677</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>669,101</td>
<td>647,058</td>
<td>3.4%</td>
</tr>
<tr>
<td>State of Mi</td>
<td>82,301</td>
<td>723,868</td>
<td>75,929</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>894,098</td>
<td>992,669</td>
<td>-9.9%</td>
<td></td>
</tr>
<tr>
<td>Total S by Division</td>
<td>1,455,408</td>
<td>14,791,120</td>
<td>3,282,431</td>
<td>253,998</td>
<td>3,824,285</td>
<td>4,150,277</td>
<td>604,398</td>
<td>35,500</td>
<td>2,000,757</td>
<td>8,350</td>
<td>30,406,524</td>
<td>28,129,175</td>
<td>8.1%</td>
</tr>
<tr>
<td>Percent Change</td>
<td>45.8%</td>
<td>24.0%</td>
<td>-15.4%</td>
<td>65.5%</td>
<td>-17.0%</td>
<td>30.3%</td>
<td>422.9%</td>
<td>-29.0%</td>
<td>6.0%</td>
<td>-99.4%</td>
<td>-165,784</td>
<td>180,394</td>
<td>-8.1%</td>
</tr>
</tbody>
</table>

1 Combined Metrics from both the Sponsored Programs Office (SPO) and Office of Innovation & Commercialization (OIC)
2 Percentages reflect the proportional contribution from each Division (calculated by dividing the sum of the fractional contributions of all inventors for each unit by the total number of inventors).
## Sponsored Awards

**-Industry-\nCOMBINED**

**Fiscal Year 2019**

**2nd Quarter**

**Ended Dec 31, 2018**

**TOTAL: $8,783,348**

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>FY '19 as of 12/31</th>
<th>FY '18 as of 12/31</th>
<th>Variance</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>54</td>
<td>50</td>
<td>3,223,911</td>
<td>3,407,395</td>
</tr>
<tr>
<td>Business &amp; Economics</td>
<td>1</td>
<td>2</td>
<td>33,000</td>
<td>253,061</td>
</tr>
<tr>
<td>Chemical</td>
<td>3</td>
<td>2</td>
<td>297,367</td>
<td>182,595</td>
</tr>
<tr>
<td>Civil</td>
<td>6</td>
<td>8</td>
<td>87,077</td>
<td>57,859</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>36</td>
<td>12</td>
<td>480,490</td>
<td>598,880</td>
</tr>
<tr>
<td>Defense &amp; Space</td>
<td>15</td>
<td>18</td>
<td>1,566,301</td>
<td>951,943</td>
</tr>
<tr>
<td>Energy</td>
<td>14</td>
<td>8</td>
<td>651,945</td>
<td>398,854</td>
</tr>
<tr>
<td>Environmental</td>
<td>5</td>
<td>4</td>
<td>166,141</td>
<td>150,570</td>
</tr>
<tr>
<td>Health</td>
<td>11</td>
<td>8</td>
<td>173,591</td>
<td>717,422</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>3</td>
<td>3</td>
<td>136,000</td>
<td>126,773</td>
</tr>
<tr>
<td>IT Services</td>
<td>4</td>
<td>1</td>
<td>470,719</td>
<td>139,045</td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>10</td>
<td>15</td>
<td>507,872</td>
<td>287,835</td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>7</td>
<td>93,423</td>
<td>129,860</td>
</tr>
<tr>
<td>Technology</td>
<td>11</td>
<td>5</td>
<td>875,511</td>
<td>768,869</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>177</strong></td>
<td><strong>143</strong></td>
<td><strong>275</strong></td>
<td><strong>244</strong></td>
</tr>
</tbody>
</table>

**Proposals Submitted**

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>FY '19 as of 12/31</th>
<th>FY '18 as of 12/31</th>
<th>Awards Received</th>
<th>Awards Received ($)</th>
<th>Variance</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>54</td>
<td>50</td>
<td>69</td>
<td>73</td>
<td>3,223,911</td>
<td>3,407,395</td>
</tr>
<tr>
<td>Business &amp; Economics</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>5</td>
<td>33,000</td>
<td>253,061</td>
</tr>
<tr>
<td>Chemical</td>
<td>3</td>
<td>2</td>
<td>7</td>
<td>6</td>
<td>297,367</td>
<td>182,595</td>
</tr>
<tr>
<td>Civil</td>
<td>6</td>
<td>8</td>
<td>21</td>
<td>12</td>
<td>87,077</td>
<td>57,859</td>
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<tr>
<td>Consumer Products</td>
<td>36</td>
<td>12</td>
<td>19</td>
<td>23</td>
<td>480,490</td>
<td>598,880</td>
</tr>
<tr>
<td>Defense &amp; Space</td>
<td>15</td>
<td>18</td>
<td>23</td>
<td>17</td>
<td>1,566,301</td>
<td>951,943</td>
</tr>
<tr>
<td>Energy</td>
<td>14</td>
<td>8</td>
<td>25</td>
<td>25</td>
<td>651,945</td>
<td>398,854</td>
</tr>
<tr>
<td>Environmental</td>
<td>5</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>166,141</td>
<td>150,570</td>
</tr>
<tr>
<td>Health</td>
<td>11</td>
<td>8</td>
<td>15</td>
<td>13</td>
<td>173,591</td>
<td>717,422</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>3</td>
<td>3</td>
<td>11</td>
<td>14</td>
<td>136,000</td>
<td>126,773</td>
</tr>
<tr>
<td>IT Services</td>
<td>4</td>
<td>1</td>
<td>9</td>
<td>5</td>
<td>470,719</td>
<td>139,045</td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>10</td>
<td>15</td>
<td>25</td>
<td>23</td>
<td>507,872</td>
<td>287,835</td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>7</td>
<td>13</td>
<td>10</td>
<td>93,423</td>
<td>129,860</td>
</tr>
<tr>
<td>Technology</td>
<td>11</td>
<td>5</td>
<td>23</td>
<td>10</td>
<td>875,511</td>
<td>768,869</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>177</strong></td>
<td><strong>143</strong></td>
<td><strong>275</strong></td>
<td><strong>244</strong></td>
<td><strong>8,783,348</strong></td>
<td><strong>8,160,961</strong></td>
</tr>
</tbody>
</table>

---

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

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

## Total Research Expenditures by College/School/Division

### Fiscal Year 2019 & 2018

*As of December 31, 2018 and December 31, 2017*

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2019</th>
<th>FY2018</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>3,439,309</td>
<td>2,997,874</td>
<td>441,435</td>
<td>14.7%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>14,719,836</td>
<td>13,516,324</td>
<td>1,203,512</td>
<td>8.9%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>7,212,310</td>
<td>7,916,221</td>
<td>(703,911)</td>
<td>-8.9%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>280,368</td>
<td>123,765</td>
<td>156,603</td>
<td>126.5%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>182,192</td>
<td>132,557</td>
<td>49,635</td>
<td>37.4%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>3,648,011</td>
<td>3,798,662</td>
<td>(150,651)</td>
<td>-4.0%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>4,223,781</td>
<td>4,076,325</td>
<td>147,456</td>
<td>3.6%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>745,303</td>
<td>640,990</td>
<td>104,313</td>
<td>16.3%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>2,365,375</td>
<td>2,539,818</td>
<td>(174,443)</td>
<td>-6.9%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>427,576</td>
<td>252,256</td>
<td>175,320</td>
<td>69.5%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>37,244,061</strong></td>
<td><strong>35,994,792</strong></td>
<td><strong>1,249,269</strong></td>
<td><strong>3.5%</strong></td>
</tr>
</tbody>
</table>

*Includes the Vice Presidents, Provost, and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.*

**Includes GLRC department (non-academic researchers) expenditures only. All other GLRC center expenditures are shown in the researchers' respective colleges.*
VIII-D. ADVANCEMENT REPORT

Attached is a report from Dr. Bill Roberts, Interim Vice President of Advancement and Alumni Engagement, on the university’s advancement activities.

This is for the Board’s information.
ADVANCEMENT AND ALUMNI ENGAGEMENT
BOARD OF TRUSTEES REPORT
February 2019

Advancement

Events
- Two presidential events in took place in Florida. Marco Island: hosted by Michigan Tech Fund
  Trustees/Life Trustees: Bob Tripp, Paul Fernstrum, George Butvilas, and Dale Elliott. St.
  Petersburg: Ross Reider.

Reorganization
- Bill Roberts has assumed the position of Interim Vice President for Advancement.
- Directors of Advancement have been placed in the College of Engineering (Bryant Weathers),
  College of Sciences and Arts (Ben Larson), and School of Business (Marney Kloote).
- In the process of reorganizing territories and reassigning individual donors.

Planned Giving
- Increase of 35% in IRA Rollover gifts due to Tax Cuts and Jobs Act and increased promotion
  - 121 donors made gifts of less than $10,000 totaling $174,795
  - 25 donors made gifts of $10,000 or more totaling $777,261
- Planned Giving Registry Value: $171.5 million
- Realized Planned Gifts: $2.04 million

Annual Giving
- Continuing to prepare for Day of Giving (April 11). The focus of this day is participation and not
  dollar amount.
- As of 1/31/19 we were at 78% of our $2.5 goal with $1,937,982
- As of 1/31/19 our campus campaign participation rate is at 21% (317 employees)

Alumni Engagement
- Update from Alumni board meeting Feb 7 & 8
  - The slate of 2018 Alumni Award recipients were selected.
  - Board members met with a group of First Year experience students in Wadsworth Hall.
  - A new ad hoc committee was formed to address using data to drive programming
  - A Michigan Tech flag was approved for use as a graduation gift
- Winter Carnival Alumni-Student Broomball Invitational Tournament By the Numbers:
  - 12 Alumni teams, 4 student teams
  - 106 Alumni, friends and students playing
  - 32 Years since graduation for "most veteran" player
  - 2019 is the 10th annual broomball tournament
  - 8 Degrees (F) at the start of the tournament
○ 110 pasties and 6 dozen pickled eggs consumed for lunch

● More than 650 alumni and friends attended the Michigan Tech Night with the Red Wings on February 16. Each attendee received a co-branded MTU/Red Wings ball cap. They were also able to participate in special activities between periods and have a group photo on the ice after the game.
VIII-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, 11/22/18 to 2/11/19
TOTAL MENTIONS

15.2K

TOTAL REACH

5.4B

TOTAL PUBLICITY VALUE

$3.1M
News Media Report, 11/22/18 to 2/11/19

11/22/18 - 2/11/19

TOTAL MENTIONS

- Mentions
  - 15.2K

REACH

- UVPM
  - 5.4B
- Reach
  - 5.9M
TAG USAGE OVER TIME

- Athletics 2.6K
- Events 1.9K
- Research 771
- Alumni 603
- Other 471
- Curricula/Programs 353
- Student Life 34

TAG USAGE

- Athletics 2.6K, 38.3%
- Events 1.9K, 28.5%
- Research 771, 11.4%
- Alumni 603, 9%
- Other 471, 7%
- Curricula/Programs 353, 5.2%
- Student Life 34, 0.5%
News Media Report, 11/22/18 to 2/11/19

11/22/18 - 2/11/19

TREND OF COVERAGE BY MEDIA TYPE

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Number of Clips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microblog</td>
<td>9.0K</td>
</tr>
<tr>
<td>Online, consumer</td>
<td>3.8K</td>
</tr>
<tr>
<td>Online, trade/industry</td>
<td>481</td>
</tr>
<tr>
<td>Online, news and business</td>
<td>233</td>
</tr>
<tr>
<td>Photo/Video Sharing Site</td>
<td>228</td>
</tr>
<tr>
<td>News/Release Distribution Service</td>
<td>192</td>
</tr>
<tr>
<td>Newspaper</td>
<td>173</td>
</tr>
<tr>
<td>Blog, consumer</td>
<td>154</td>
</tr>
<tr>
<td>Social Networking Site</td>
<td>122</td>
</tr>
<tr>
<td>Other</td>
<td>187</td>
</tr>
</tbody>
</table>

SHARE OF COVERAGE BY MEDIA TYPE

- Microblog: 61.8%
- Online, consumer: 26.1%
- Online, trade/industry: 3.3%
- Online, news and business: 1.6%
- Photo/Video Sharing Site: 1.6%
- News/Release Distribution Service: 1.3%
- Newspaper: 1.2%
- Blog, consumer: 1.1%
- Social Networking Site: 0.8%
- Other: 1.3%
MENTIONS BY LOCATION

TOP LOCATIONS

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Clips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michigan</td>
<td>629</td>
</tr>
<tr>
<td>Minnesota</td>
<td>453</td>
</tr>
<tr>
<td>California</td>
<td>428</td>
</tr>
<tr>
<td>Washington DC</td>
<td>296</td>
</tr>
<tr>
<td>North Dakota</td>
<td>197</td>
</tr>
<tr>
<td>New York</td>
<td>191</td>
</tr>
<tr>
<td>Texas</td>
<td>178</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>137</td>
</tr>
<tr>
<td>Ohio</td>
<td>119</td>
</tr>
<tr>
<td>Virginia</td>
<td>95</td>
</tr>
</tbody>
</table>
News Media Report, 11/22/18 to 2/11/19

VALUE OF COVERAGE

<table>
<thead>
<tr>
<th>Date</th>
<th>Value of Clips</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/3/18</td>
<td>100K</td>
</tr>
<tr>
<td>12/17/18</td>
<td>200K</td>
</tr>
<tr>
<td>12/31/18</td>
<td>300K</td>
</tr>
<tr>
<td>1/14/19</td>
<td>400K</td>
</tr>
<tr>
<td>1/28/19</td>
<td>500K</td>
</tr>
<tr>
<td>2/11/19</td>
<td>600K</td>
</tr>
</tbody>
</table>

SENTIMENT OVER TIME

<table>
<thead>
<tr>
<th>Date</th>
<th>Neutral</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/3/18</td>
<td>7.8K</td>
<td>5.2K</td>
<td>1.3K</td>
</tr>
<tr>
<td>12/17/18</td>
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<tr>
<td>12/31/18</td>
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<tr>
<td>1/14/19</td>
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<td></td>
</tr>
<tr>
<td>1/28/19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/11/19</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Publicity Value
$3.1M
Social Media Report, 11/22/18 to 2/10/19
SPOTLIGHT

As part of the “Tomorrow Needs” campaign, University Marketing and Communications (UMC) created a number of up-close-and-personal (UCP) videos to highlight our best research, students, and faculty. One of these videos, “STEM Students Specialize in Mechatronics,” features Prince Mehandiratta, a mechanical engineering graduate student from India. In the video, Mehandiratta discusses opportunities at Michigan Tech in mechatronics, robotics, and automation.

The Graduate School has been increasing its recruitment efforts in India, and mechatronics is an attractive field there. After sharing the video as part of our regular Facebook content, the Graduate School gave UMC $150 to boost the post.

We targeted the paid posts at college students in India, ages 22-28, who are interested in engineering and science.

Stats from the video:

- Total reach: 189,900
  - Organic (unpaid): 28,800
  - Paid: 164,522
- Total link clicks (to www.mtu.edu/gradschool): 600

Due to browser privacy settings, we’re not entirely sure what users did on the Grad School site once they got there; anecdotally, apps went up during this time.
Over 4M impressions* this quarter

BY PLATFORM

Facebook
@michigantech
● 43.2k followers, up 689 from last quarter
● 2.89 million impressions

Twitter
@michigantech
● 11.3k followers, up 200 from last quarter
● 550k impressions

Instagram
@michigantech
● 10,400 followers, up 600 from last quarter

LinkedIn
● 55,128 followers, up 921 from last quarter
● 410k impressions (organic)
● 359k impressions (-sponsored)

(*Impressions: The number of times any content from your page or profile enters a person's screen. This includes posts, check-ins, ads, and interactions. Instagram does not provide impression information.)

Social Media Report 11/22/18 to 2/10/19
TRAFFIC

13,012 sessions sent to Michigan Tech News, Unscripted, Magazine, and Research Magazine

Social Media Report 11/22/18 to 2/10/19
VIII-F. EMPLOYEE SAFETY STATISTICS

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

This is for the Board’s information.
### EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE

**January - December**

<table>
<thead>
<tr>
<th>Category</th>
<th>Years</th>
<th>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><strong>Number of Recordable Injuries</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injury Only w/Medical - No Loss Time</td>
<td>2017</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Lost Time Cases</td>
<td>2017</td>
<td>5</td>
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<td>0</td>
<td>0</td>
<td>3</td>
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<td></td>
<td>2018</td>
<td>5</td>
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<td>1</td>
<td>3</td>
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<td>1</td>
<td>10</td>
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<tr>
<td>Restricted Work Cases</td>
<td>2017</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
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<tr>
<td></td>
<td>2018</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>
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<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable</td>
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<td>8</td>
<td>0</td>
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<td>1</td>
<td>6</td>
<td>0</td>
<td>1</td>
<td>16</td>
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<td>1</td>
<td>6</td>
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<td>15</td>
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<tr>
<td><strong>Number of Days</strong></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injury Loss Time</td>
<td>2017</td>
<td>70</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>84</td>
<td>0</td>
<td>0</td>
<td>154</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>46</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>19</td>
<td>0</td>
<td>3</td>
<td>71</td>
</tr>
<tr>
<td>Restricted Work Days</td>
<td>2017</td>
<td>163</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>111</td>
<td>0</td>
<td>9</td>
<td>283</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>87</td>
<td>0</td>
<td>0</td>
<td>101</td>
</tr>
<tr>
<td><strong>Hours Worked</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Work Hours</td>
<td>2017</td>
<td>290,354</td>
<td>789,614</td>
<td>146,313</td>
<td>17,798</td>
<td>1,086,603</td>
<td>72,156</td>
<td>232,479</td>
<td>2,635,317</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>286,090</td>
<td>786,162</td>
<td>149,314</td>
<td>18,888</td>
<td>1,109,403</td>
<td>63,460</td>
<td>228,574</td>
<td>2,641,891</td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2017</td>
<td>11.0%</td>
<td>30.0%</td>
<td>5.6%</td>
<td>0.7%</td>
<td>41.2%</td>
<td>2.7%</td>
<td>8.8%</td>
<td>100.0%</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>10.8%</td>
<td>29.8%</td>
<td>5.7%</td>
<td>0.7%</td>
<td>42.0%</td>
<td>2.4%</td>
<td>8.7%</td>
<td>100.0%</td>
</tr>
<tr>
<td><strong>Rates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lost Time Case Rate</td>
<td>2017</td>
<td>3.4</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.6</td>
<td>0.0</td>
<td>0.0</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>3.5</td>
<td>0.0</td>
<td>0.0</td>
<td>10.6</td>
<td>0.5</td>
<td>0.0</td>
<td>0.9</td>
<td>0.8</td>
</tr>
<tr>
<td>Frequency Rate (Recordable)</td>
<td>2017</td>
<td>5.5</td>
<td>0.0</td>
<td>0.0</td>
<td>11.2</td>
<td>1.1</td>
<td>0.0</td>
<td>0.9</td>
<td>1.2</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>4.9</td>
<td>0.0</td>
<td>0.0</td>
<td>10.6</td>
<td>1.1</td>
<td>0.0</td>
<td>0.9</td>
<td>1.1</td>
</tr>
</tbody>
</table>

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

1. The Lost Time Case Rate is calculated by multiplying the number of Lost Time Cases by 200,000 then dividing by the labor hours at the University.
2. The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the University.
3. The number of days are total days for the life of the cases first reported during this period.

According to the Bureau of Labor Statistics (BLS) for 2017, the average Lost time Rate of days away from work for College and Universities over 1,000 employees was 0.5 and the average Frequency Rate for Colleges and Universities over 1,000 employees was 1.8. The BLS rates for 2018 have not yet been developed. The numbers indicated in the ESS report do not include student employees. When we include student employees in the ESS total we are still at or below the BLS rates.

February 2019
VIII-G. DISPOSAL OF SURPLUS PROPERTY

In accordance with Board of Trustees policy 11.11. Disposal of Surplus Property, included herein is a report on the disposal of surplus property for 2018. This is for the Board’s information.
## Potential Real Property Disposal

<table>
<thead>
<tr>
<th>Property Listing</th>
<th>Name of Property</th>
<th>Acres</th>
<th>Appraised Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Amjoch Observatory, Atlantic Mine Location</td>
<td>40</td>
<td>$66,000</td>
</tr>
<tr>
<td>2*</td>
<td>Baraga Plains, Baraga County</td>
<td>1,866</td>
<td>$1,980,000</td>
</tr>
<tr>
<td>3</td>
<td>Copper Range Property, Adams Township</td>
<td>40</td>
<td>$66,000</td>
</tr>
<tr>
<td>4</td>
<td>Dow Wilderness Tract, Keweenaw County</td>
<td>301</td>
<td>$393,000</td>
</tr>
<tr>
<td>5</td>
<td>Ford Center, Alberta</td>
<td>1,790</td>
<td>$2,520,000</td>
</tr>
<tr>
<td>6*</td>
<td>Goodman Property, Green Acres Rd, Houghton Cty</td>
<td>15</td>
<td>$50,000</td>
</tr>
<tr>
<td>7</td>
<td>Houghton County Air Park, Houghton County</td>
<td>15</td>
<td>$60,000</td>
</tr>
<tr>
<td>8</td>
<td>Lake Bailey Property, Eagle Harbor Township</td>
<td>2</td>
<td>$47,000</td>
</tr>
<tr>
<td>9*</td>
<td>Otter River Camp, Houghton County</td>
<td>23</td>
<td>$34,000</td>
</tr>
<tr>
<td>10</td>
<td>Prickett Tract, Baraga County</td>
<td>120</td>
<td>$140,000</td>
</tr>
<tr>
<td>11</td>
<td>Rugg Property, Baraga County</td>
<td>36</td>
<td>$24,000</td>
</tr>
<tr>
<td>12</td>
<td>Smith Property, Stanton Township</td>
<td>40</td>
<td>$21,000</td>
</tr>
<tr>
<td>13</td>
<td>Stonington Property, Mill Hill Road, Houghton Cty</td>
<td>58</td>
<td>$225,000</td>
</tr>
<tr>
<td>14</td>
<td>University Radio Tower Property, Franklin Township</td>
<td>6</td>
<td>TBD</td>
</tr>
<tr>
<td>15</td>
<td>Wilkinson Tract, Baraga County</td>
<td>240</td>
<td>$192,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$5,818,000</strong></td>
</tr>
</tbody>
</table>

This exhibit offers a curated list of properties that potentially could be considered for disposition. Placement on the list does not mean that disposition is being actively pursued. Any opportunity for disposal is analyzed on a case by case basis.

*Potential reversionary clauses or restrictions regarding sale of property*
IX. OTHER BUSINESS
X. PUBLIC COMMENTS
XI. ADJOURNMENT