Formal Board of Trustees Meeting

Formal Session of the Board of Trustees
October 11, 2019
Memorial Union Building Ballroom B

October 11, 2019 09:00 AM - 12:00 PM

Agenda Topic

I. Call to Order

II. Roll Call

III. Confirm Agenda

IV. Opening Remarks
   IV.A Chair's Opening Remarks
   IV.B President's Opening Remarks

V. Public Comment Period

VI. Committee Reports
   VI.A Academic Affairs
   VI.B Audit and Finance
      VI.B.i External Auditor's Report
   VI.C Leadership

VII. Consent Agenda
   VII.A Approval of Minutes
   VII.B Degrees in Course
   VII.C Gifts

Presenter

Brenda Ryan, Chair
Sarah Schulte, Secretary to the Board of Trustees
Brenda Ryan, Board of Trustees Chair
Brenda Ryan, Chair
Rick Koubek, President
Linda Kennedy, Committee Chair
Steven Tomaszewski, Committee Chair
Randy Morse (Andrew Hooper Pavlik)
Bill Johnson, Committee Chair
VII.D Resignations, Retirements, and Off Payroll

VIII. Action and Discussion Items

VIII.A Employee Recognition

VIII.B Emeritus Rank

VIII.B.i Dr. Craig Waddell

VIII.B.ii Dr. Robert Johnson

VIII.C Contract Addendum

VIII.D Five-year State Capital Outlay Plan and FY2021 Capital Project Request

VIII.E Approve 2020 Meeting Dates

IX. Reports

IX.A Recruiting

IX.B Finance and Budget

IX.C Institute for Computing and Cybersystems

IX.D Undergraduate Student Government

IX.E Graduate Student Government

IX.F University Senate

X. Informational Items

X.A Analysis of Investments

X.B University Issued Bond Balances

X.C Research & Sponsored Programs

X.D Advancement & Alumni Relations

X.E Media Coverage

X.F Employee Safety Statistics

XI. Other Business

XII. Date for Next Formal Meeting: December 13, 2019
XIII. Adjourn
III. APPROVAL OF AGENDA

RECOMMENDATION: That the Board of Trustees approves the agenda of the formal session on October 11, 2019 as distributed to the Board.
IV. OPENING REMARKS

A. Opening Remarks of the Board Chair
   Brenda Ryan, Chair

B. Opening Remarks of the University President
   Richard Koubek, President
V. PUBLIC COMMENT PERIOD

Members of the public are invited to make public comments to the Board of Trustees in accordance with Board of Trustees Bylaw 1.14. Those who wish to address items in today’s agenda and who have filed their intent with the Secretary of the Board as required by Bylaw 1.14 will be limited to 5 minutes. Those addressing general topics are limited to 3 minutes.
VI. COMMITTEE REPORTS

A. Academic Affairs Committee – Linda Kennedy
B. Audit and Finance Committee – Steve Tomaszewski
C. Leadership Committee – Bill Johnson
VII. CONSENT AGENDA

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

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

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal session of August 1, 2019 as distributed to the Board.
VII-B. DEGREES IN COURSE

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

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

To: Sarah Schulte
   General Counsel and Secretary to the Board of Trustees

From: Theresa Jacques
       Registrar’s Office

Date: September 20, 2019

Subject: Degree Correction for March 1, 2019

An error has been identified in the Degrees in Course within the Board of Trustees minutes dated March 1, 2019. Brianna Lynn Neub is listed as earning a Bachelor of Science in Scientific and Technical Communication. The record should be corrected to reflect that she earned a Bachelor of Arts in Scientific and Technical Communication.

Theresa Jacques
Registrar

TJ: kph
MEMORANDUM

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

From: Theresa Jacques
      Registrar’s Office

Date: September 12, 2019

Subject: Candidates for Degrees – Conferral Term 201905

The attached list of candidates for degrees, beginning with Madison Taylor Vachon and ending with Cameron John Shock is submitted for the granting of the appropriate degrees by the Board of Trustees. I certify that these candidates meet all requirements for their respective degrees and that the names have been submitted to and have received the approval of the faculty from their major department.

Theresa Jacques
Registrar

TJ: kph
Bachelor of Arts in English
Bachelor of Science in Accounting
Bachelor of Science in Applied Geophysics
Bachelor of Science in Biochemistry and Molecular Biology
Bachelor of Science in Biological Sciences
Bachelor of Science in Biomedical Engineering
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering
Bachelor of Science in Computer Network and System Administration
Bachelor of Science in Computer Science
Bachelor of Science in Electrical Engineering
Bachelor of Science in Electrical Engineering Technology
Bachelor of Science in Engineering Management
Bachelor of Science in Exercise Science
Bachelor of Science in Finance
Bachelor of Science in Geological Engineering
Bachelor of Science in Management
Bachelor of Science in Management Information Systems
Bachelor of Science in Marketing

Madison Taylor Yachon
Jaclyn Marie Wadaga
Dorillon Luis Rochete - Cum Laude
Jeffrey Stephen Galla
Ciara Jane Bond - Summa Cum Laude
Joy Lynne Collard
Marshael B Ryan - Magna Cum Laude
Jessika Ann Rogers
James Andrew Yarrington
Tyler Joseph Neering
Jacob Jordan Zrelak
Tyler Thomas Bredael
Sam A Celani*
Miles John Lefevre
Kyle Preston Robertson
Xilun Song
Joseph Hubert Tressler
Scott J McIver
Brady Elijah Bilderback
Ashley Evelyn Hauck
David M Musiel
Roelof Postmaa
Alex M Stanage
Ryanne Leigh Sutton
Amber Corrine Varacalli
Clinton Scot Andrews
Morgan Lambert Husmann - Magna Cum Laude
Stefan Gerhardt Koerner
Warren Joseph Krettek
Nicholas James LaBelle
Erin Rose McCarthy
Sydney Lynn Rasmussen
Taylor Charles Storck
Paul Herman Vogt
Xinlin Zhang
Thomas Henry Cauley
Lee Brandon Heckel
Kevin Lewis Kirkland
Michelle L LaFave - Magna Cum Laude
Madeline Jane Goodnough
Matthew James Stietz
Rebecca Nicole Zardus
Andrew Stephen Dyke - Cum Laude
Jacob D Kacynski
Sean Kerber Patchin
Jimmie Renelle Cannon
Travis B Tidwell
Gaspard Vincent Cuenot
Bachelor of Science in Mechanical Engineering

Bachelor of Science in Mechanical Engineering Technology

Bachelor of Science in Medical Laboratory Science

Bachelor of Science in Psychology

Bachelor of Science in Software Engineering

Bachelor of Science in Sports and Fitness Management

Bachelor of Science in Surveying Engineering

Bachelor of Science in Wildlife Ecology and Management

Doctor of Philosophy in Applied Cognitive Science and Human

Doctor of Philosophy in Atmospheric Sciences

Doctor of Philosophy in Biochemistry and Molecular Biology

Doctor of Philosophy in Biomedical Engineering

Doctor of Philosophy in Chemistry

Doctor of Philosophy in Civil Engineering

Doctor of Philosophy in Electrical Engineering

Doctor of Philosophy in Engineering - Computational Science

Doctor of Philosophy in Environmental and Energy Policy

Doctor of Philosophy in Forest Science

Doctor of Philosophy in Geology

Henry Emilio Freridge
Braeton Guy Ardell
Jacob Michael Coughlin
Eric Robert DeJong
Joseph Nathaniel Dion
Dominic Joseph Fusco
Cooper James Heyne Minehart
Benjamin Thomas Joseph
Nils Alexander Justen - Summa Cum Laude
Jacob Thomas Kari
Samuel John Lacko
Mariah Meyers McLeod
Mitchell Joseph Menard
Anthony John Rettig
Jacob Richard Robinson
Andrew James Rose - Summa Cum Laude
Jesse Scott Hill
Timothy Ingram
Jacob Michael Smith
Sara Pauline Halonen
Aubrey J VanDrie
Connor Kenaley Henshaw
Nathan Sean Hieri
Sydney Dopple Mcklaas
Benjamin David Slade
Cody W Kunnari
Jacob L Lucchini
Matthew Alan Roy
Justin T Girskis
Tanner Michael Barnes - Magna Cum Laude
Steven Gerard Landry
Kamal Kant Chandrakar
Rashmi Adhikari
Satil Siddhartha Karipott
Bradley David Nelson
David Paul Rosen
Bhaskar Halami
Wafa Abdulrazaq Mazi
Shahien Shahsavari
Xin Yan
Ruizhe Si
Wyatt Kenneth Adams
Chong Cao
Elizaveta Olegovna Egorova
Robert John Zupko
Emily Woods Prehoda
Grace Louise Parikh
Michael Joseph Sayers
Michigan Technological University  
Degrees Awarded for Conferral Term 201905

Doctor of Philosophy in Industrial Heritage and Archaeology  
Daniel Joseph Trepal

Doctor of Philosophy in Materials Science and Engineering  
Matthew Neil Tien

Doctor of Philosophy in Mathematical Sciences  
Duo Zhang

Doctor of Philosophy in Mechanical Engineering - Engineering  
Behdad Afshami

Doctor of Philosophy in Physics  
Guilherme Aramizo Ribeiro

Doctor of Philosophy in Rhetoric, Theory and Culture  
Yenka Rajesh Chundu

Doctor of Philosophy in Statistics  
Xin He

Master of Forestry in Forestry  
Robert Scott Jane

Master of Geographic Info Sci in Geographic InformationScie  
Lauren Nicole Knope

Master of Science in Accounting  
Miles Benjamin Penhale

Master of Science in Applied Cognitive Science and Human Fac  
Robert Alexander Schroeter

Master of Science in Applied Ecology  
Kai Zhang

Master of Science in Applied Natural Resource Economics  
Stas Zinchik

Master of Science in Applied Physics  
Chad Allen Brisbois

Master of Science in Applied Science Education  
Silke Helga Feltz

Master of Science in Biological Sciences  
Yun Liu

Master of Science in Chemical Engineering  
Zachary L Evans

Master of Science in Chemistry  
Ethan Carpenter Goss

Master of Science in Civil Engineering  
Mirko Noack

Master of Science in Computer Engineering  
Douglas Irving Tyran

Master of Science in Computer Science  
Maria Krivova

Master of Science in Data Science  
Alexander Phillip Claerbaut

Master of Science in Geology  
Erin Patricia Lipp

Master of Science in Geological Sciences  
James Curtis Henderson

Master of Science in Geophysical Sciences  
Christopher Lee Anderson

Master of Science in Human Environ  
Samuel Philip Knapp

Master of Science in Information Sciences  
Josephine Amponsem

Master of Science in Information Technology  
Kevin Laurence Bertschinger

Master of Science in Materials Science  
Armin Kalita

Master of Science in Mathematical Sciences  
Eduardo Rodriguez-Feo

Master of Science in Mechanical Engineering  
Eric Marshall

Master of Science in Physics  
Wafa Phad A Alharbi

Master of Science in Physical Sciences  
Pranav Rajendra Kalantri

Master of Science in Polymer Science and Engineering  
Hassan Roza

Master of Science in Polymer Science and Engineering  
Fel Xie

Master of Science in Polymer Science and Engineering  
Nabhaajit Goswami

Master of Science in Polymer Science and Engineering  
Sarah Patricia Washko

Master of Science in Polymer Science and Engineering  
Yenkat Rahul Chalapalli

Master of Science in Polymer Science and Engineering  
Jamie Lauren Berger

Master of Science in Polymer Science and Engineering  
Abheek Kumar Srivastava

Master of Science in Polymer Science and Engineering  
Priyanath Agarwal

Master of Science in Polymer Science and Engineering  
Madhura Shrikrishna Buchake

Master of Science in Polymer Science and Engineering  
Chirag Kamlesh Dave

Master of Science in Polymer Science and Engineering  
Neelima Katta Prabhakar Naidu

Master of Science in Polymer Science and Engineering  
Kalyan Kumar Kotturu

Master of Science in Polymer Science and Engineering  
Sai Shiva Mani Kanta Nandyala

Master of Science in Polymer Science and Engineering  
Andara Kostage Sachithra Suwimali Perera

Master of Science in Polymer Science and Engineering  
Robert Paul Richard
Michigan Technological University
Degrees Awarded for Conferral Term 201905

Master of Science in Electrical Engineering
Vishal Bhawanishankar Arya
Evan John Gawron
Raakesh Raja Karuppliah Ramachandran
Shaonan Liu
Saurabh Singh
Vivek Vyasraj Sorab
Janna Lynn Brown
Chase Michael West
Rhiley Esther Allbee
Jeffrey M Solan
Luxi Wang
Anna Aldeghi
Francisco Perez
Kara Rose Donahue
Catherine Anne Galligan
Philip David Staublin
Carson Foster Williams
Dhruv Dhanesh Thanawala
Chetan Sanjay Agarwal
Sravathsan Anandan
Arpit Awathe
Manoj Balabadhruni
Laxmi Narayana Aditya Basina
Pushkar Jayant Bhalerao
Pradeep Krishna Bhat
FNU Deepak Jude Denny
Vidyaprasad Rajendra Desai
Anmol Sanjay Deshmukh
Abhishek Dinesh
Poonam Sahebrao Dongare
Nehal Doshi
Aakash Dusane
FNU Gaganbir Singh
Navrose Handa
Daniel Joseph Jacobson
Erica Marie Jacobson
Akhilesh Arun JadHAV
Nihal Pandit Kapare
Dnyanesh Ajabrao Katre
Atharv Mahadeo Kolhar
Mihir Gunesh Kulkarni
Si Liu
Kartikeya Vinayak Lonkar
Meghana Madala
Roman Maharjan
Shaunak Prasad Mhatre
Sai Prudhvi Nagireddy
Siddhant Nigam
Michigan Technological University
Degrees Awarded for Conferral Term 201905

Hareesh Parepalli
Zakarie R. Parker
Sharvil Shailendra Patankar
Yenkata Satyanarayana Pedyala
Amey Ashok Pise
Ashna Sambhar
Amey Arvind Sawant
Akshat Sharma
Aditya Dinesh Shinde
Deeplipkumar Manojkumar Singh
Tristan James Slabaugh
Samantha G. Swartzmiller
Aditya Samir Trifaley
Hakan Hamza Uras
Vinal Kumar Rao Veeramaneni
Ayush Vijayvergiya
Chun Wang
Amar Nath Ajit Warty
Cameron John Shock

Master of Science in Physics

*Addendum to Conferral:
Sam A. Celani degree awarded for term Spring 2019

Michigan Technological University, Registrar's Office 12-Sep-2019
VII-C. GIFTS

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

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

<table>
<thead>
<tr>
<th>Source</th>
<th>FY20 YTD Total</th>
<th>FY19 YTD Total</th>
<th>FY19 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>.47</td>
<td>.45</td>
<td>7.09</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>3.73</td>
<td>.96</td>
<td>14.69</td>
</tr>
<tr>
<td>Annual Giving</td>
<td>.32</td>
<td>.29</td>
<td>2.76</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>.91</td>
<td>.60</td>
<td>14.75</td>
</tr>
<tr>
<td>Corporations</td>
<td>.28</td>
<td>.30</td>
<td>1.73</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>.01</td>
<td>.03</td>
<td>1.58</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>.00</td>
<td>.05</td>
<td>1.14</td>
</tr>
<tr>
<td>**Total</td>
<td><strong>5.72</strong></td>
<td><strong>2.68</strong></td>
<td><strong>43.74</strong></td>
</tr>
<tr>
<td>Realized Planned Gifts</td>
<td>.05</td>
<td>.64</td>
<td>3.20</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>5.77</strong></td>
<td><strong>3.32</strong></td>
<td><strong>46.94</strong></td>
</tr>
</tbody>
</table>

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

09/26/2019 08:09
## BOARD OF TRUSTEES OFF-PAYROLL REPORT  
(July 01, 2019 – September 14, 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>
</tr>
</thead>
<tbody>
<tr>
<td>Peggy Gorton</td>
<td>Staff</td>
<td>College of Computing</td>
<td>Executive Assistant</td>
<td>08/25/1976</td>
<td>08/30/2019</td>
</tr>
<tr>
<td>Marianne Ojaneen</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>04/17/1996</td>
<td>09/08/2019</td>
</tr>
<tr>
<td>Daniel Rouleau</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Building Mechanic II</td>
<td>07/14/1981</td>
<td>08/15/2019</td>
</tr>
<tr>
<td>Deborah Sheldon</td>
<td>Staff</td>
<td>Budget Office</td>
<td>Executive Director, Budget/Planning</td>
<td>04/01/1981</td>
<td>08/31/2019</td>
</tr>
<tr>
<td>James Wood</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Professor</td>
<td>04/30/1990</td>
<td>08/16/2019</td>
</tr>
</tbody>
</table>

### 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>Zakariya Al Hamouz</td>
<td>Faculty</td>
<td>CNSA/MERET/Hi Division</td>
<td>Lecturer</td>
<td>08/20/2018</td>
<td>08/16/2019</td>
</tr>
<tr>
<td>Abdul Nasser Al araje</td>
<td>Faculty</td>
<td>CNSA/MERET/Hi Division</td>
<td>Professor</td>
<td>08/15/2005</td>
<td>07/31/2019</td>
</tr>
<tr>
<td>Samantha M. Auger</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Planned Giving Officer</td>
<td>07/16/2018</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Jason Carter</td>
<td>Staff</td>
<td>Vice President for Research</td>
<td>Associate Vice President for Research Development</td>
<td>04/04/2006</td>
<td>09/03/2019</td>
</tr>
<tr>
<td>Kathryn Carter</td>
<td>Staff</td>
<td>Kinesiology/Integrative Physiology</td>
<td>Academic Advisor &amp; Outreach Coordinator</td>
<td>08/15/2016</td>
<td>08/16/2019</td>
</tr>
<tr>
<td>Jessica Daul</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>09/10/2018</td>
<td>07/16/2019</td>
</tr>
<tr>
<td>John Eshelman</td>
<td>Faculty</td>
<td>School of Business and Economics</td>
<td>Assistant Professor</td>
<td>08/17/2015</td>
<td>08/01/2019</td>
</tr>
<tr>
<td>Zhuo Feng</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>07/15/2009</td>
<td>08/11/2019</td>
</tr>
<tr>
<td>John Forsman</td>
<td>Staff</td>
<td>Sch Forest Resources &amp; Environ Sci</td>
<td>Assistant Research Engineer/Scientist</td>
<td>05/19/1991</td>
<td>08/16/2019</td>
</tr>
<tr>
<td>Lucia Gauchia Babe</td>
<td>Faculty</td>
<td>Mechanical Engineering</td>
<td>Associate Professor</td>
<td>08/19/2013</td>
<td>08/28/2019</td>
</tr>
<tr>
<td>Mariana Grohowski</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Copyeditor/Writer</td>
<td>01/15/2018</td>
<td>08/30/2019</td>
</tr>
<tr>
<td>Peng Guo</td>
<td>Faculty</td>
<td>School of Business and Economics</td>
<td>Assistant Professor</td>
<td>08/17/2015</td>
<td>08/18/2019</td>
</tr>
<tr>
<td>Jena Hale</td>
<td>Staff</td>
<td>Chief Information Officer</td>
<td>Director of IT Business Operations</td>
<td>03/01/2012</td>
<td>08/02/2019</td>
</tr>
<tr>
<td>L. Syd M. Johnson</td>
<td>Faculty</td>
<td>Humanities</td>
<td>Associate Professor</td>
<td>08/15/2011</td>
<td>08/09/2019</td>
</tr>
<tr>
<td>Marc Madigan</td>
<td>Staff</td>
<td>Biological Sciences</td>
<td>Academic Advisor</td>
<td>12/05/2016</td>
<td>07/19/2019</td>
</tr>
<tr>
<td>Taylor Mills</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>08/12/2019</td>
<td>08/27/2019</td>
</tr>
<tr>
<td>Keat Ong</td>
<td>Faculty</td>
<td>Biomedical Engineering</td>
<td>Professor/Assoc Dept Chair</td>
<td>07/24/2006</td>
<td>08/16/2019</td>
</tr>
<tr>
<td>Stephen Patchin</td>
<td>Staff</td>
<td>Career Services</td>
<td>Director</td>
<td>08/25/2008</td>
<td>07/05/2019</td>
</tr>
<tr>
<td>Sumit Paudyal</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>08/20/2012</td>
<td>08/17/2019</td>
</tr>
<tr>
<td>Travis Pierce</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>Chief Housing Officer/Director</td>
<td>08/04/2003</td>
<td>09/06/2019</td>
</tr>
<tr>
<td>Kari Pietrzyk</td>
<td>Staff</td>
<td>Auxiliary Services</td>
<td>Facilities &amp; Events Coord</td>
<td>07/21/2008</td>
<td>08/31/2019</td>
</tr>
<tr>
<td>Elizabeth Pollins</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Principal Gifts Associate</td>
<td>05/30/2002</td>
<td>08/02/2019</td>
</tr>
<tr>
<td>Monica Rovano</td>
<td>Staff</td>
<td>AE Seaman Mineral Museum</td>
<td>Office Assistant 6</td>
<td>01/03/2011</td>
<td>08/17/2019</td>
</tr>
<tr>
<td>Stacey Cedar</td>
<td>Staff</td>
<td>Biomedical Engineering</td>
<td>Departmental Coordinator</td>
<td>11/17/2014</td>
<td>07/31/2019</td>
</tr>
<tr>
<td>Louis Serianni</td>
<td>Staff</td>
<td>Deputy Chief Information Officer</td>
<td>System Administrator</td>
<td>07/16/2018</td>
<td>08/30/2019</td>
</tr>
<tr>
<td>George Sever</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>08/29/2011</td>
<td>07/17/2019</td>
</tr>
<tr>
<td>Name</td>
<td>Class</td>
<td>Department</td>
<td>Title</td>
<td>Most Recent Hire Date</td>
<td>Term Date</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------</td>
<td>-------------------------------------------------</td>
<td>------------------------------------</td>
<td>------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Jie Sun</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Assistant Professor</td>
<td>08/15/2016</td>
<td>08/09/2019</td>
</tr>
<tr>
<td>Kyle Sutela</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>03/12/2018</td>
<td>09/30/2019</td>
</tr>
<tr>
<td>Kamara Taylor</td>
<td>Faculty</td>
<td>Cognitive &amp; Learning Sciences</td>
<td>Lecturer</td>
<td>08/20/2018</td>
<td>08/15/2019</td>
</tr>
<tr>
<td>William Tembreull</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Senior Design Specialist</td>
<td>09/20/1976</td>
<td>09/06/2019</td>
</tr>
<tr>
<td>Ramesh Thakur</td>
<td>Staff</td>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>Research Scientist II</td>
<td>10/31/2001</td>
<td>08/08/2019</td>
</tr>
<tr>
<td>Heather Tisdale</td>
<td>Staff</td>
<td>Provost Senior Vice President for Academic Affairs</td>
<td>Director, Intensive ESL Program</td>
<td>08/29/2016</td>
<td>07/05/2019</td>
</tr>
<tr>
<td>Eddy Trinklein</td>
<td>Staff</td>
<td>Mechanical Engineering Mechanics</td>
<td>Research Engineer</td>
<td>06/20/2011</td>
<td>08/02/2019</td>
</tr>
<tr>
<td>Vassiliki Semouchkina</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Graphic Design Specialist</td>
<td>12/05/2016</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Mahdi Shahbakhti</td>
<td>Faculty</td>
<td>Mechanical Engineering Mechanics</td>
<td>Associate Professor</td>
<td>08/20/2012</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Joshua VanderVoord</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>System Administrator</td>
<td>01/29/2018</td>
<td>07/26/2019</td>
</tr>
<tr>
<td>Shuai Wang</td>
<td>Faculty</td>
<td>Computer Science</td>
<td>Lecturer</td>
<td>01/01/2018</td>
<td>08/12/2019</td>
</tr>
<tr>
<td>Seyed Zekavat</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Professor</td>
<td>08/18/2002</td>
<td>08/17/2019</td>
</tr>
</tbody>
</table>
VIII. ACTION AND DISCUSSION ITEMS

A. Employee Recognition

B. Five-Year State Capital Outlay Plan and FY2021 Capital Project Request

C. Approve 2020 Meeting Dates
VIII-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.) Peggy Gorton – 43 years of service
2.) Daniel Rouleau – 38 years of service
3.) Deborah Sheldon – 38 years of service
OFFICE MEMO

TO: Michigan Technological University Board of Trustees

FROM: Department of Humanities/School of Arts & Sciences

DATE: September 4, 2019

SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Humanities voted on September 4, 2019 to request that the Michigan Technological University Board of Trustees name Dr. R. Craig Waddell as Professor Emeritus upon his retirement on May 31, 2019.

During his 30 years on the faculty at Michigan Tech, Dr. Craig Waddell taught multiple sections of more than 30 different courses (frequently commended by the provost for receiving “an exceptional ‘Average of 7 Dimensions’ student evaluation score,” placing him in the top 10% of faculty university-wide); published research in book chapters and in highly respected journals in philosophy, rhetoric, science and technology studies, communication studies, and scientific and technical communication (Philosophy and Rhetoric; Social Epistemology; Science, Technology, & Human Values; The Quarterly Journal of Speech; Technical Communication Quarterly); post-tenure, published two edited collections: And No Birds Sing: Rhetorical Analyses of Rachel Carson’s Silent Spring (held by approximately 1,400 WorldCat member libraries worldwide), Southern Illinois University Press, 2000; and Landmark Essays on Rhetoric and the Environment, Hermagoras Press (an imprint of Routledge), 1998; developed new courses (e.g., Risk Communication and Introduction to Rhetoric) and new curricular (e.g., Minor in Diversity Studies, Minor in Journalism, Peace Corps Master’s International in Rhetoric and Technical Communication); chaired 20 graduate student committees and served as a member of another 38; advised four student organizations (Student Pugwash, Society for Technical Communication [became the second-largest student chapter in the U.S.]; won the Michigan Tech award for Most Improved Student Organization; and won several national awards from the Society for Technical Communication), The Michigan Tech Lode [won many state and national awards and won the Michigan Tech award for Most Improved Student Organization; Dr. Waddell twice received the Michigan Tech award for Advisor of the Year], and Global City); directed the Scientific and Technical Communication Program, during which time enrollments in the program increased by 13 percent; served on and chaired numerous department and college committees; served as an active member of three Presidential Committees: Budget Reduction Advisory Committee (BRAC), Committee on the Michigan Tech Initiative for the Environment, and Committee to Enhance Campus and Community (chair); served on the University Senate for 9 years as Secretary, Chair of the Fringe Benefits Committee, and President; and was active in the community (e.g., as founder and president of the Houghton Middle School PTO).
Approved

Patty Sotirin, Interim Chair/Department of Humanities
Date
9-4-2019

David Hemmer, Dean/College of Sciences & Arts
Date
9-5-19

Jacqueline Huntoon, Provost and Vice President for Academic Affairs
Date
16 Sep 2019

Rick Koubek, President
Date
5 Sept 13, 2017

Revised 9/21/16
OFFICE MEMO

TO: Michigan Technological University Board of Trustees

FROM: Department of Humanities/School of Arts & Sciences

DATE: September 4, 2019

SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Humanities voted on September 4, 2019 to request that the Michigan Technological University Board of Trustees name Dr. Robert R. Johnson as Professor Emeritus upon his retirement on June 30, 2019.

Robert Johnson was Professor of Rhetoric and Technical Communication at Michigan Technological University for eighteen years. From 1999-2008 he served as department chair of the Humanities Department at MTU. His research interests include technical communication theory and history, rhetoric history, interdisciplinary theory and practice, usability research, and the history of atomic and nuclear development. He is the author of two single-authored books. His first book, User-centered Technology: A Rhetorical Theory for Computers and Other Mundane Artifacts (SUNY Press 1998), was awarded the 1999 “Best Book Award” from the National Council of Teachers of English for Publications in Technical and Scientific Communication. He also was awarded “Best Article on Philosophy or Theory in Technical and Scientific Communication” in 1998. His second book, Romancing the Atom: Nuclear Infatuation from the Radium Girls to Fukushima was published by Praeger Publishers in 2012 and received the NCTE award for “Best Book of 2014” in Technical and Scientific Communication. His publications have appeared in College Composition and Communication, Technical Communication Quarterly, Computers and Composition, The Journal of Technical and Business Communication, The IEEE Transactions on Professional Communication, The Writing Instructor, The New Atlantis, The Believer, and other journals and book collections. In addition, he was a coordinator of the Michigan Tech Humanities Department Preparing Future Faculty Initiative (funded through The Pew Trust, The National Council of Graduate Schools, and the NCTE) — one of six humanities graduate programs in the country chosen by NCTE to develop innovative approaches for the preparation of graduate students. He was the Secretary/Treasurer of the Council of Writing Program Administrators from 1996-99 and has served as a conference coordinator and proposal reviewer for a number of organizations. Previous to being at Michigan Tech, he was the Director of the Graduate Program in Technical and Scientific at Miami University-Ohio. He has chaired and/or served on over 80 Masters and PhD committees.
Approved

Patty Sotirin, Interim Chair/Department of Humanities

Date
9-4-2019

David Hemmer, Dean/College of Sciences & Arts

Date
9-5-19

Jacqueline Huntoon, Provost and Vice President for Academic Affairs

Date
10 Sep 2019

Rick Koubek, President

Date
Sep 16, 2015

Revised 9/21/16
Addendum to Employment Agreement

This Employment Agreement Addendum ("Addendum") is made a part of the agreement ("Agreement") entered into between Michigan Technological University (the "University") and Richard Koubek (the "President") (the University and President collectively, the "Parties") effective July 1, 2018.

The Agreement contains language that is confusing and contrary to the intent of the Parties at the time the Agreement was executed. This Addendum is intended to clarify the intent of the Parties and resolve the confusion that may be caused by the current language and to make evident the President’s option to direct that some or all of a performance bonus may be directed to the Michigan Tech Fund.

Recitals

A. Paragraph 3.2 of the Agreement states that the President may be awarded a performance bonus of $25,000 for the academic year ending June 30, 2019, and that the potential performance bonus may increase up to $5,000 each year, up to a maximum of $50,000, ending June 30, 2023.

B. If the President were to receive the maximum potential performance bonus under the language of Paragraph 3.2 of the Agreement, however, he would only be awarded $45,000 for the academic year ending June 30, 2023.

C. It was the intent of the Parties at the time the Agreement was executed that the President would be eligible for a performance bonus of $50,000 for the academic year ending June 30, 2023.

D. President would also like the ability to direct all or a portion of his performance bonus to the Michigan Tech Fund prior to it being paid to him for each Contract Year (July 1 to June 30) and to designate the scholarship or other purpose it benefits.

Therefore, the Parties agree to enter into this Addendum to the Agreement as follows:

Addendum Agreement

1. Paragraph 3.2 of the Agreement is modified to read as follows:

Performance Bonus. An at risk performance bonus of up to $30,000 for the first year and for each ensuing Contract Year (July 1 to June 30), increasing by $5,000 each Contract Year to a maximum of $50,000, may be paid to the President at the sole discretion of the Board. Any amounts paid pursuant to this Section 3.2 shall be paid to the President in a lump sum payment on or before November 1, 2019 for the first Contract Year (July 1, 2018 to June 30, 2019) and on or before each subsequent November 1 immediately following in succeeding Contract Years through July 1, 2023.
2. Nothing in this Addendum or in the Agreement binds the Board to award any performance bonus to the President, nor does it obligate the Board to award any particular amount of performance bonus up to the maximum amount set forth in Paragraph 3.2 should the Board determine a performance bonus is appropriate.

3. At the August 1, 2019, Board of Trustees formal session, President was awarded a performance bonus of $25,000. It was the intent of the Board of Trustees to award President his full performance bonus. Consistent with the language in paragraph 1 of this Addendum, President is awarded an addition $5,000 performance bonus for Contract Year July 1, 2018 to June 30, 2019, making his total performance bonus for that Contract Year $30,000.

4. At any time before a performance bonus given in accordance with the terms of the Agreement is paid out, President may direct that an amount equivalent to that of the performance bonus be provided to the Michigan Tech Fund. The President may, but need not, direct that the funds be utilized for a particular scholarship, program, or other purpose. If the President makes such direction, the funds will be provided to the Michigan Tech Fund as he directs in Honor of Richard & Valerie Koubek and the performance bonus for that Contract Year will be reduced by the amount directed to the Michigan Tech Fund.

5. This Addendum is incorporated into and is a part of the Agreement.

IN WITNESS WHEREOF, the President and the Board execute this Addendum, which has been approved by the Board of Trustees, effective as of the date executed by both Parties.

Michigan Technological University

Brenda Ryan, Chair
Board of Trustees

Date

President

Richard Koubek
President

Date
VIII-B. FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND FY2021 CAPITAL PROJECT REQUEST

The Five-Year State Capital Outlay Plan and FY2021 Capital Project Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval, and is included herein.

RECOMMENDATION: That the Board of Trustees approves the Five-Year State Capital Outlay Plan and FY2021 Capital Project Request to be submitted to the State of Michigan.
FY21 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY21 Five-Year State Capital Outlay Plan and Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval, and is included herein.

RECOMMENDATION: That the Board of Trustees approves the FY21 Five-Year State Capital Outlay Plan and Request to be submitted to the State of Michigan.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Costs (000's)</th>
<th>State Funds (000's)</th>
<th>Est. Const. Univ. Funds (000's)</th>
<th>FY Start/End</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CONSTRUCTION APPROVAL for the H-STEM Engineering and Health Technologies Complex – Phase I</td>
<td>68,000</td>
<td>47,000</td>
<td>$44,700</td>
<td>$29,700</td>
<td>$15,000</td>
<td>2021/2024</td>
</tr>
</tbody>
</table>

Description

H-STEM Engineering and Health Technologies Complex -Phase I

The H-STEM engineering and health technologies complex will support Michigan Tech’s integrated educational programs that apply engineering and science to problems related to human health. Michigan Tech’s technological niche allows it to contribute to health-related research, development, and education for its students by developing therapeutic devices, instruments, sensors, and preventative strategies. Research is currently supported by the American Heart and Lung Associations, Gerber Foundation, Portage Health Foundation, National Institutes of Health, and the National Science Foundation (among others). The complex will include shared and flexible laboratory spaces, co-located with renovated classrooms and learning/spaces within an existing building (Chemical Sciences and Engineering) that meet current industry standards for safe operation and the training of students. The complex will permit teams of researchers and students from Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Electrical and Computer Engineering, Materials Science and Engineering, Biology, Chemistry, Cognitive and Learning Sciences, Computer Science, and Kinesiology and Integrative Physiology to work together in collaborative space with shared equipment. The estimated cost of $44,700,000 will allow Michigan Tech’s engineers and scientists to continue to increase economic prosperity through development of technologies and preparation of the future technological workforce. Research and educational efforts made possible by this complex will complement and add value to activities at other universities as well as care providers throughout the state. Planning authorization for Michigan Technological University’s H-STEM Engineering and Health Technologies Complex - Phase I was granted by the State of Michigan legislature in December 2018. Schematic design and programming approval will be sought in February 2020 with the request for construction approval following in spring 2021.
VIII-C. 2020 MEETING DATES

The following dates are presented for approval.

Friday, February 28, 2020

Friday, May 1, 2020 (Commencement – Saturday, May 2)

Thursday, August 6, 2020 (Alumni Reunion)

Friday, October 9, 2020

Friday, December 18, 2020 (Commencement – Sat. December 19)

RECOMMENDATION: That the Board of Trustee approves the meeting dates as presented.
IX. REPORTS

A. Recruiting – John Lehman, Vice President for University Relations and Enrollment

B. Finance and Budget – Sue Kerry, CFO

C. Faculty Presentations

    Institute for Computing and Cybersystems
    Daniel Furhmann, Dave House Professor in Computer Engineering
    Keith Vertanen, Associate Professor of Computer Science

D. Undergraduate Student Government – Melanie Thomas, President

E. Graduate Student Government – Apurva Baruah, President

F. University Senate – Michael Mullens, President
2019 Undergraduate Recruitment Review
BOT- October 11, 2019
2019 Admissions Funnel - Freshmen
Building the Inquiry Pool by Academic Profile: Some Perspective

National Distribution of ACT Scores

The need for strategic financial aid allocations has never been greater.

<table>
<thead>
<tr>
<th>ACT Range</th>
<th>Number</th>
<th>Percent</th>
<th>Mich. Tech Admits 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 – 36</td>
<td>62,565</td>
<td>3%</td>
<td>13%</td>
</tr>
<tr>
<td>28 – 32</td>
<td>233,804</td>
<td>12%</td>
<td>36%</td>
</tr>
<tr>
<td>24 – 27</td>
<td>345,252</td>
<td>17%</td>
<td>31%</td>
</tr>
<tr>
<td>20 – 23</td>
<td>486,693</td>
<td>24%</td>
<td>17%</td>
</tr>
<tr>
<td>16 – 19</td>
<td>523,179</td>
<td>26%</td>
<td>2%</td>
</tr>
<tr>
<td>13 – 15</td>
<td>311,829</td>
<td>15%</td>
<td>0%</td>
</tr>
<tr>
<td>≤ 12</td>
<td>66,716</td>
<td>3%</td>
<td>0%</td>
</tr>
</tbody>
</table>

49% of our admits come from 15% of the student test takers.
IX.A: Recruiting

New UG students by Academic Index Tier

- Recalibrated tiers for incoming class of 2019

Michigan Tech
IX.A: Recruiting

Get your hands dirty. Real research. Right now.

Michigan Technological University

Ready for a meaningful career that pays you back? Find out why Huskies get hired.

Software. Hardware. Not just anywhere.
The new College of Computing at Michigan Tech.

Median Early Career Salary of $66,400

Find out why Huskies get hired.

Google and Social Media Ads
2018-2019 Digital Marketing Campaign

Brand Awareness

1. Achieve 25,000 unique visitors to MTU Tomorrow Needs website
   
   **Result:** 39,945

2. Reach at least 10,000 posts reactions over the course of the campaign
   
   **Result:** 17,458

3. Obtain 2,750 post shares on Facebook and Instagram
   
   **Result:** 2,307
Educational Outreach

Goal: Aggressively establish market expansion-related partnerships to feed enrollment growth.

K-12
- School districts and administrators
- Career Tech Education
- Dual enrollment
- STEM lab/fab lab/Maker Space
- Curricular, programmatic, and auxiliary support
- STEM outreach and engagement

Higher Education
- Community college articulations
- University partnerships
- 3+1+1 and 2+2 agreements
- Curricular, programmatic, and auxiliary support
2019 Cycle: Geographic Markets

2019 Name Buy
- 50,000 seniors
- 80,000 juniors/sophomores
2020 Cycle: Geographic Markets

2020 Name Buy

50,000 seniors
- Primary/Secondary markets

200,000 juniors/sophomores
~107,000 Primary/Secondary
~ 93,000 Expansion
2020 Recruits
2020 Applicants (as of late Sept. 2019)
Freshmen Completed Applications 2011-2020
(as of 9-29-19)
Projected 2020 Admissions Funnel - Freshmen
Thank you
Finance & Budget Report
Board of Trustees Meeting
October 11, 2019
Overview

- Statements of Net Position
- Statements of Revenues, Expenses and Changes in Net Position
- General and Current Fund Projected Revenues and Expenses
# Statements of Net Position

**As of June 30, 2019**

(unaudited in thousands)

<table>
<thead>
<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Assets</td>
<td>$ 41,333</td>
<td>$ 8,179</td>
<td>$ 49,512</td>
</tr>
<tr>
<td>Noncurrent Assets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>234,218</td>
<td>-</td>
<td>234,218</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>55,611</td>
<td>149,349</td>
<td>204,960</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$ 331,162</td>
<td>$ 157,528</td>
<td>$ 488,690</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>$ 7,009</td>
<td>$ -</td>
<td>$ 7,009</td>
</tr>
<tr>
<td><strong>Total Deferred Outflows of Resources</strong></td>
<td>$ 7,009</td>
<td>$ -</td>
<td>$ 7,009</td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$ 30,946</td>
<td>$ 1,509</td>
<td>$ 32,455</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>181,260</td>
<td>5,613</td>
<td>186,873</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>$ 212,206</td>
<td>$ 7,122</td>
<td>$ 219,328</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>$ 4,707</td>
<td>$ -</td>
<td>$ 4,707</td>
</tr>
<tr>
<td><strong>Total Deferred Inflows of Resources</strong></td>
<td>$ 4,707</td>
<td>$ -</td>
<td>$ 4,707</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>$ 141,106</td>
<td>$ -</td>
<td>$ 141,106</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>(19,848)</td>
<td>150,406</td>
<td>130,558</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td>$ 121,258</td>
<td>$ 150,406</td>
<td>$ 271,664</td>
</tr>
</tbody>
</table>
## Statements of Revenues, Expenses and Changes In Net Position
### As of June 30, 2019
(unaudited in thousands)

<table>
<thead>
<tr>
<th>Description</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>$ 102,821</td>
</tr>
<tr>
<td>Grants and Contracts</td>
<td>$ 52,017</td>
</tr>
<tr>
<td>Educational Activities</td>
<td>$ 5,363</td>
</tr>
<tr>
<td>Department Activities</td>
<td>$ 9,734</td>
</tr>
<tr>
<td>Student Residence fees</td>
<td>$ 18,821</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td><strong>$ 188,756</strong></td>
</tr>
<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$ 132,984</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$ 45,852</td>
</tr>
<tr>
<td>Student Financial Support</td>
<td>$ 13,567</td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>$ 77,753</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td><strong>$ 270,156</strong></td>
</tr>
<tr>
<td><strong>Non Operating Revenues</strong></td>
<td><strong>$ 70,486</strong></td>
</tr>
<tr>
<td><strong>Other Revenues</strong></td>
<td><strong>$ 4,392</strong></td>
</tr>
<tr>
<td><strong>Change in Net Position</strong></td>
<td><strong>$ (6,522)</strong></td>
</tr>
<tr>
<td><strong>Net Position, Beginning</strong></td>
<td><strong>$ 278,186</strong></td>
</tr>
<tr>
<td><strong>Net Position, End</strong></td>
<td><strong>$ 271,664</strong></td>
</tr>
</tbody>
</table>
### General Fund Adjusted Budget vs Actual and Current Fund Original Projection vs Actual

#### For the Year Ended June 30, 2019

(unaudited in thousands)

<table>
<thead>
<tr>
<th></th>
<th>GENERAL FUND</th>
<th></th>
<th>CURRENT FUND</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adjusted</td>
<td>June Actual</td>
<td>Original *</td>
<td>June Actual</td>
</tr>
<tr>
<td></td>
<td>Budget</td>
<td></td>
<td>Projection</td>
<td></td>
</tr>
<tr>
<td>Revenues</td>
<td>$ 212,672</td>
<td>$ 209,804</td>
<td>$ 309,682</td>
<td>$ 306,680</td>
</tr>
<tr>
<td>Expenses</td>
<td>$ (212,672)</td>
<td>$ (207,984)</td>
<td>$ (308,220)</td>
<td>$ (305,814)</td>
</tr>
<tr>
<td>Change in Net Position (without Pension &amp; OPEB Expense)</td>
<td>$ -</td>
<td>$ 1,820</td>
<td>$ 1,462</td>
<td>$ 866</td>
</tr>
<tr>
<td>Less: Pension &amp; OPEB Expense**</td>
<td>-</td>
<td></td>
<td>-</td>
<td>(6,048)</td>
</tr>
<tr>
<td>Change in Net Position (with Pension &amp; OPEB Expense)</td>
<td>$ -</td>
<td>$ 1,820</td>
<td>$ 1,462</td>
<td>$ (5,182)</td>
</tr>
</tbody>
</table>

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

**Note:** Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.
Thank You
MISSION

Create a scholarly environment for teaching and research in computing, information, and automation that is a reflection of contemporary technological innovation in industry and society at large.

ACIA STRUCTURE (ORIGINALLY): ECE Department + CS Department + EET and CNSA Programs in School of Technology
Promote research and learning experiences in the areas of mobile computing, cybersecurity, cyber-physical systems, and computer systems for the benefit of Michigan Tech and society at large.
Center for Computer Systems Research (CCSR) established in July 2011, Saeid Nooshabadi, Director

ICC established in May 2015, Min Song, Founding Director

Director: Tim Havens, William and Gloria Jackson Professor of Computer Systems

Staff: Karen Johnson, Communications Director and Staff Assistant

INSTITUTE HISTORY/OVERVIEW
CENTERS AND RESEARCH AREAS
Ye “Sarah” Sun
Cyber-Physical Systems (CPS)
ASST. PROFESSOR, MECHANICAL ENGINEERING-ENGINEERING MECHANICS

Tim Havens
Data Systems (DataS)
DIRECTOR, ICC
ASSOC. PROFESSOR, COLLEGE OF COMPUTING
WILLIAM AND GLORIA JACKSON ASSOC. PROFESSOR

Guy Hembroff
Cybersecurity (CyberS)
ASSOC. PROFESSOR, COLLEGE OF COMPUTING
DIRECTOR, MEDICAL INFORMATICS GRADUATE PROGRAM
AFFILIATED ASSOC. PROFESSOR, DATA SCIENCE

Beth Veinott
Human-Centered Computing (HCC)
ASSOC. PROFESSOR, APPLIED COGNITIVE SCIENCE AND HUMAN FACTORS

Soner Onder
Scalable Architectures and Systems (SAS)
PROFESSOR, COMPUTER SCIENCE

CENTER DIRECTORS
ICC by the Numbers

Active Grants and Contracts $8,921,356 40 projects
New in FY19 Grants and Contracts $2,431,192 13 projects
Proposals Submitted in FY19 $13,845,445 37 projects

49 Members
15 Departments
5 Schools and Colleges

11 in CPS
7 in CyberS
11 in DataS
11 in HCC
9 in SAS

* As of 6/30/19

Michigan Tech
Where are we going?

Path to $10 Million in 10 Years
Awarding Success-Supported Initiatives and Startups

Postdoc Fellows  Research Scientists  Micro Grants  Proposal Grants  Seed Grants  Asst Dir for R&D  Asst Dir for Business

House Family Visiting Researchers  Williams Seed Grants  Seminar Series  Travel Grants  Communications Director  Student Support

ICC Revenue = Gifts + IRAD Return

Michigan Tech
Future Interactions Group

- We create interactive systems that leverage uncertain input
  - Touchscreen gestures
  - Midair gestures
  - Speech recognition
  - Noisy single switch
  - Instrumented surfaces
Keith Vertanen  
Associate Professor, Computer Science

Future Interactions Group
• Main themes:
  — Improve interactions for people with permanent / situation disabilities
  — Post-mobile phone interactions
• Group members: 4 PhD students, 3 undergrad RAs (5 alumni)
• Part of Human-Centered Computing (HCC) of the ICC:

Elizabeth Veinott - Kevin Trewartha - Shane Mueller - Kelly Steelman - Samantha Smith
Robert Pastel - Charles Wallace - Scott Kuhl - Keith Vertanen

Cognitive and Learning Sciences - Computer Science
• Goal 1: Enhance the communication of people who are non-speaking

• Example:
  — Augmentative and Alternative Communication (AAC) user is discussing a trip
  — System identifies conversation partner, adapting predictions to the partner
  — Speech recognition allows two-sided dialogue language modeling
  — Partner may also offer suggestions

NSF CAREER: Technology Assisted Conversations (2018)
• Goal 2: Enhance the communication of everyone
• Example:
  — Person is wearing augmented reality (AR) smartglasses
  — AR app helps the person understand what the clerk said
  — AR app suggests likely responses

NSF CAREER: Technology Assisted Conversations (2018)
• Goal 3: Educate about AAC and natural language processing
• Examples:
  — Women in Computer Science (WiCS) Summer Youth Program (SYP)
  — Explore Computer Science Research workshop
  — Paired classroom activity: one person speaks via a mobile app

NSF CAREER: Technology Assisted Conversations (2018)
• Goal: Enable typing on a table augmented with surface microphones
  — Built prototype inferring tap location by differential in signal arrival
  — Inferred location within on key-width
  — Coupled with a powerful auto-correction algorithm
  — User study: 15 words-per-minute at a low error rate
  — Used as preliminary results in an NSF CORE Small proposal

ICC Paul William Seed Grant: Sensing and Feedback for On-Body Input (2018), Co-PI Scott Kuhl
• Goal: Transform everyday surfaces into rich interactive surfaces
  — Enable efficient and ergonomic input in future VR and AR applications
  — Compare different algorithms for acoustic sensing of taps
  — Compare against camera and other wearable sensing approaches
  — Human-factors results on midair versus rigid surface interaction

• Goal: Faster mobile text entry for people with visual impairments
  — Improve common methods: tapping letters, gesturing words, and speech
  — Avoid errors with better audio and tactile feedback
  — Find errors by annotating uncertain portions of the text
  — Correct errors by combining probabilistic information from multiple sources

Future Interactions Group

- Improve interactions for people with permanent / situation disabilities
- Post-mobile phone interactions

Data

- 283 billion words of text
- Crowdsourced dialogues
- Augmented reality smartglasses
- High performance computing

Algorithms

- Statistical decoders
- Recurrent neural network language models

Hardware

Humans
Undergraduate Student Government (USG) Update

October 11, 2019
Melanie Thomas, U.S.G. President
Agenda

- USG Body
- USG Student Led Initiatives
- Goals for 2019-2020
USG 2019-20 Elections

- Executive Board
  - President - Melanie Thomas
  - Vice President - Zbigniew Bell
  - Treasurer - Leo Stelmaszek
  - Secretary - Zachary Olson
  - Representative Positions
    - Added two College of Engineering representatives, three first year representatives and one third year representative
USG Student Led Initiatives

- Career Fair Recess Proposal Follow-Up
- USG Financial Briefing + All About USG
- Meet Your Organization
- Experience Tech Fee Proposal
- Statewide Advocacy Day
- 1UP Conference
- USG Constitution Review
- Ways and Means Digitized Processes
Goals for 2019-2020

- Attending Registered Student Organization events on behalf of USG
  - Work to promote networking among Registered Student Organizations

- Improving Internal Committees and Delegating Liaison Positions across campus
  - Focus on productivity and instilling responsibility in student body members who want to do their role in student governance

- Expanding USG’s role on campus to offer more student led initiatives
  - Provide more than just financial support to Registered Student Organizations

- Note Revisions of USG Constitution
Questions?
Graduate Student Government of Michigan Tech

Apurva Baruah

Oct 11 2019

Board of Trustees
Michigan Technological University
Agenda

- Updates
  - Organisational Updates
  - Events
  - JED Campus

- Fall activities
  - Seminars & Workshops

- Travel Grants Report
Updates

- Travel Grants
  - No deadlines.
  - Accepted on a rolling basis, throughout the year.
- Equity in attendance policy for dept representatives

- MTU JED Campus
  - Liaisons on all 4 working groups
  - Campus-wide Environmental Scan w.i.p
Summer 2019 Softball

- 8 teams
- League Champions Tools of Ignorance
Enrichment

Alumni Breakfast Poster Session (Aug. 2)
Orientation 2019

International Student Welcome @ Chicago

- GSG, IPS, Alumni Association ~ 135 students
Orientation 2019

GSG Orientation Picnic
Updates

New, redesigned Website!
Enrichment & Collaboration

**Professional Development Workshops**

- **Career Fair prep for International Students**  
  September 16, 2019

- **Graduate Student Networking**  
  October 9, 2019

- **Innovation & Entrepreneurship**  
  December 4, 2019

- **Publishing your research**  
  November 13, 2019

**Academic Seminars**

- **Graduate Student Life Outside of Research**  
  September 11, 2019

- **Time Management**  
  October 24, 2019

- **Research Programming I (R/Excel/SigmaPlot)**  
  October 23, 2019
Enrichment & Collaboration

**AN 80,000 WORD THESIS WOULD TAKE 9 HOURS TO PRESENT. YOUR TIME LIMIT? 3 MINUTES**

**1ST PLACE: $300**
**2ND PLACE: $150**
**PEOPLE’S CHOICE: $100**

**3MT® THREE MINUTE THESIS**
*FOUNDED BY THE UNIVERSITY OF QUEENSLAND*

**3 MINUTES 1 SLIDE HOW HARD COULD IT BE?**

**WEDNESDAY, NOVEMBER 6, 2019**
**REGISTRATION OPENS SEPTEMBER 24**
**REGISTRATION CLOSES OCTOBER 23**

**FOR MORE INFO VISIT:**
**GSG.MTU.EDU/3MT**

**Final Round : Continental Fire Co., Downtown Houghton**
**November 6, 2019**

**Preliminary heats : MUB Ballroom**
**November 6, 2019**
Community

- First Friday Social:
  - By ROTC
  - Sept. 7
  - >300 attendees

Kayaking
Community

: Upcoming Events :

September

6
First Friday Social

11
How to be a Graduate Student Outside of Research

16
Career Fair Prep Session for International Students

17
CHP -- Health Insurance Info Session [Register here]

October

9
Graduate Student Networking

11
Fall Color Tour

23
Research Programming 1 (R/Excel/ SigmaPlot)

31
Halloween Party

November

6
3MT Thesis

10
Laser Tag

13
Publishing Your Research

December

4
Innovation and Entrepreneurship

7
Bowling
Advocacy

→ Grad life
  ○ GTA/GTI Time commitment survey
  ○ Cost of Living survey

→ JED Campus
  ○ Working group action items
  ○ Environmental Scan
Travel Grants

Summer 2019

- Total Applications : 41 (PhD - 29, MS - 12)
  - Presenting - 34 (PhD - 25, MS - 9)
  - Attending - 7 (PhD - 4, MS - 3)

- Grant amount - $9,550
  - Presenting - $8,500 @ $250/student
  - Attending - $1050 @ $150/student

↑ 1.5x (2018)
Advocacy • Enrichment • Community

Thank You!!
SENATE REVIEW OF 2018-19

- Record number of proposals dealt with (53)
- Passed faculty appointments for librarians and archivists
- Approved the return of the BS in Mining Engineering, and a new BS in Cybersecurity
- Approved a new Master’s in Engineering Management and Master’s of Science in Mechatronics
- Made progress on including improved benefits as part of the 5-year financial planning process
- Passed measure on quality of on-line courses
- Last-but-not-least voted to end “Tech time” starting in Fall 2020
BUSINESS FOR THE COMING YEAR

- Enhance visibility and influence for the senate. Improve communication with all constituents
- New academic program additions/deletions, including those coming from the new College of Computing
- Role in administrative searches (VP for Diversity, Dean of the Graduate School, etc.)
- Follow up on lecturer/research track sabbaticals
- On-line course, summer, and overload compensation. Ownership/copyright of on-line materials
- Revisit policy for quality of online classes
BUSINESS FOR COMING YEAR CONT.

- Initiate faculty workload analysis and appropriate faculty numbers
- Teaching evaluations: bias, “trolling”, correct questions, other evaluations
- Compensation – TRIP, salary equity, health benefits, retirement contributions
- Educational technology use/allocation across campus
- Follow up on grant proposal for textbooks and course material accessibility
- Examine the processes for supervisor training of professional staff
- Much more to come!
X. INFORMATION ITEMS

A. Analysis of Investments
B. University Issued Bonds Balances
C. Research & Sponsored Programs
D. Advancement & Alumni Relations
E. Media Coverage
F. Employee Safety Statistics
X-A. ANALYSIS OF INVESTMENTS

Attached are analyses of investments as of June 30, 2019 to July 31, 2019.
MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2019 THROUGH JULY 31, 2019

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Money Market Fund</td>
<td>$ 2,172,599</td>
<td>$ 2,176,818</td>
<td>0.19%</td>
</tr>
<tr>
<td>Equity Funds:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Equity Fund</td>
<td>9,503,043</td>
<td>9,416,659</td>
<td>1.19%</td>
</tr>
<tr>
<td>Commonfund Strategic Solutions Equity Fund</td>
<td>5,787,008</td>
<td>5,676,157</td>
<td>1.54%</td>
</tr>
<tr>
<td>Total Equity Funds</td>
<td>15,290,051</td>
<td>15,092,816</td>
<td></td>
</tr>
<tr>
<td>Fixed Income Funds:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate Term Fund</td>
<td>7,239,252</td>
<td>7,531,292</td>
<td>-0.11%</td>
</tr>
<tr>
<td>Commonfund Contingent Asset Portfolio</td>
<td>7,383,558</td>
<td>7,481,907</td>
<td>-0.02%</td>
</tr>
<tr>
<td>High Quality Bond Fund</td>
<td>5,685,866</td>
<td>5,697,534</td>
<td>0.20%</td>
</tr>
<tr>
<td>Total Fixed Income Funds</td>
<td>20,308,676</td>
<td>20,710,733</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$ 37,771,326</td>
<td>$ 37,980,367</td>
<td>0.56%</td>
</tr>
</tbody>
</table>

Current Asset Allocation

- Money Market, 6%
- Fixed Income, 54%
- Equities, 40%
X-B. UNIVERSITY ISSUED BOND BALANCES

Attached is an analysis of net revenues, debt retirement, and trustee reserve funds for University Bonded Operations for the period ended July 31, 2019.
## MICHIGAN TECH UNIVERSITY
### OUTSTANDING BALANCES ON BOND ISSUANCES
#### JULY 31, 2019

<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>
</table>
| **Series 2008 Bond Issue (maturity 2038)**  
Purchase of UPPCO Building  
Partial Funding of KRC Building  
MUB Ballroom Renovation | $ 4,935,000 | $ 155,000 | $ 5,090,000 | $ 15,880,000 |
| **Total Series 2008 Bond Issue** | | | | |
| **Series 2009A Bond Issue (maturity 2039)**  
New Student Apartment Building  
Partial Funding of KRC Building | 14,305,000 | 445,000 | $ 14,750,000 | $ 18,235,000 |
| **Total Series 2009 Bond Issue** | | | | |
| **Series 2010A Bond Issue (maturity 2040)**  
Great Lakes Research Center  
A.E. Seaman Mineral Museum  
KRC Building Purchase (Blizzard Building)  
Life Safety Improvements on Campus | 7,655,000 | 235,000 | $ 7,890,000 | $ 10,975,000 |
| **Total Series 2010 Bond Issue** | | | | |
| **Series 2012A Bond Issue (maturity 2034)**  
Refunding of 2003 & 2004 Fixed Rate Bond Issues  
SDC Ice Plant and Partial Roof of SDC | 24,985,000 | 1,365,000 | $ 26,350,000 | $ 33,070,000 |
| **Total Series 2012 Bond Issue** | | | | |
| **Series 2013A Bond Issue (maturity 2036)**  
Refunding 2006 Bond Issue  
Refunding partial 2008 Bond Issue | 10,570,000 | 665,000 | $ 11,235,000 | $ 14,255,000 |
| **Total Series 2013 Bond Issue** | | | | |
| **Series 2015A Bond Issue (maturity 2046)**  
Daniell Heights Renovation  
Campus Dining Renovation  
Fuel Storage Tank Facility  
Chemical Storage Facility  
Chemistry Labs Renovation  
IT and Safety Systems Upgrades  
McNair Hall Bathrooms Renovation | 22,525,000 | 465,000 | $ 22,990,000 | $ 24,295,000 |
| **Total Series 2015 Bond Issue** | | | | |
| **Total - All Bond Issues** | $ 84,975,000 | $ 3,330,000 | $ 88,305,000 | $ 116,720,000 |
X-C. RESEARCH AND SPONSORED PROGRAMS REPORT

A report of contracts and grants is attached hereto.

This is for the Board’s information.
<table>
<thead>
<tr>
<th>Award Date</th>
<th>Principal Investigator</th>
<th>Co-PI’s</th>
<th>Department</th>
<th>Center</th>
<th>Sponsor</th>
<th>Award Start Date</th>
<th>Award End Date</th>
<th>Awarded Amount</th>
<th>Total Anticipated Award Amount</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/7/2019</td>
<td>John S. Gierke</td>
<td>Alex Mayer, Angie Carter, Fengming Liu, Luke Bowman</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>EPSSI</td>
<td>National Science Foundation</td>
<td>5/15/2019</td>
<td>4/30/2022</td>
<td>$582,752</td>
<td></td>
<td>IRES Trac II: Coupling Participatory and Hydrological Research for Adapting to Extreme Hydrometeorological Events in Agricultural Communities, El Salvador</td>
</tr>
<tr>
<td>6/7/2019</td>
<td>Zhuo Feng</td>
<td>Electrical and Computer Engineering</td>
<td>ICC</td>
<td>National Science Foundation</td>
<td>7/1/2019</td>
<td>6/30/2022</td>
<td>$500,000</td>
<td></td>
<td>SHF: Small: Spectral Reduction of Large Graphs and Circuit Networks</td>
<td></td>
</tr>
</tbody>
</table>

*Some awards of equal or higher dollar amounts may be excluded from this list due to disclosure restrictions.*
### SPO & OIC Metrics

<table>
<thead>
<tr>
<th>SPO &amp; OIC Metrics</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>25</td>
<td>441</td>
<td>188</td>
<td>18</td>
<td>63</td>
<td>96</td>
<td>6</td>
<td>3</td>
<td>13</td>
<td>11</td>
<td>982</td>
<td>882</td>
<td>11.3%</td>
</tr>
<tr>
<td>Awards Received</td>
<td>162</td>
<td>356</td>
<td>91</td>
<td>18</td>
<td>81</td>
<td>75</td>
<td>40</td>
<td>3</td>
<td>109</td>
<td>13</td>
<td>948</td>
<td>826</td>
<td>14.8%</td>
</tr>
<tr>
<td>Federal</td>
<td>15,795,688</td>
<td>4,340,106</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4,144,325</td>
<td>5,244,045</td>
<td>80,000</td>
<td>-</td>
<td>-</td>
<td>1,593,004</td>
<td>17.0%</td>
</tr>
<tr>
<td>Federal Pass Through</td>
<td>1,221,164</td>
<td>6,185,495</td>
<td>669,839</td>
<td>182,407</td>
<td>753,875</td>
<td>4,657,335</td>
<td>306,675</td>
<td>-</td>
<td>-</td>
<td>143,420</td>
<td>5,000</td>
<td>14,225,120</td>
<td>51.9%</td>
</tr>
<tr>
<td>Foreign</td>
<td>-</td>
<td>370,113</td>
<td>38,885</td>
<td>-</td>
<td>20,222</td>
<td>750,590</td>
<td>-</td>
<td>8,000</td>
<td>-</td>
<td>1,187,810</td>
<td>-</td>
<td>1,094,523</td>
<td>8.5%</td>
</tr>
<tr>
<td>Gifts</td>
<td>1,681,375</td>
<td>692,983</td>
<td>99,977</td>
<td>14,500</td>
<td>58,983</td>
<td>3,600</td>
<td>378,150</td>
<td>500</td>
<td>166,438</td>
<td>56,350</td>
<td>3,152,856</td>
<td>3,468,475</td>
<td>-9.1%</td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>481</td>
<td>2,281</td>
<td>28,604</td>
<td>11,562</td>
<td>4,625</td>
<td>-</td>
<td>10,443</td>
<td>4,093</td>
<td>62,385</td>
<td>-</td>
<td>-</td>
<td>25,080</td>
<td>148.7%</td>
</tr>
<tr>
<td>Industry</td>
<td>3,606,173</td>
<td>638,335</td>
<td>80,850</td>
<td>2,450,913</td>
<td>634,509</td>
<td>17,500</td>
<td>35,000</td>
<td>1,260,456</td>
<td>20,000</td>
<td>-</td>
<td>8,433,736</td>
<td>6,401,825</td>
<td>36.6%</td>
</tr>
<tr>
<td>Other</td>
<td>121,324</td>
<td>1,085,067</td>
<td>1,097,806</td>
<td>96,946</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>148,871</td>
<td>-</td>
<td>2,500,014</td>
<td>74.4%</td>
</tr>
<tr>
<td>State of MI</td>
<td>630,561</td>
<td>1,608,530</td>
<td>201,522</td>
<td>39,232</td>
<td>-</td>
<td>64,489</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>12,000</td>
<td>2,566,834</td>
<td>2,400,845</td>
<td>6.5%</td>
</tr>
<tr>
<td>Total $ by Division</td>
<td>3,755,305</td>
<td>29,346,340</td>
<td>7,115,074</td>
<td>425,497</td>
<td>7,430,453</td>
<td>11,354,568</td>
<td>794,768</td>
<td>35,500</td>
<td>3,320,485</td>
<td>268,254</td>
<td>63,846,244</td>
<td>50,891,645</td>
<td>25.5%</td>
</tr>
</tbody>
</table>

| Fiscal Comparison | -3.0%           | -7.5%                  | 1.8%                      | -64.2%                    | -8.8%                    | 80.7%                           | 158.3%               | -33.6%                      | -10.2%                        | -80.6%          | 25.5%  | 25               | 40.0%          |

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

FYTD 2018: 52
FYTD 2019: 77

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '19 as of 6/30</th>
<th>FY '18 as of 6/30</th>
<th>FY '19 as of 6/30</th>
<th>FY '18 as of 6/30</th>
<th>$</th>
<th>Variance</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>61</td>
<td>55</td>
<td>46</td>
<td>21</td>
<td></td>
<td></td>
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<tr>
<td>National Science Foundation</td>
<td>156</td>
<td>178</td>
<td>48</td>
<td>54</td>
<td></td>
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<td></td>
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<tr>
<td>US Department of Agriculture</td>
<td>64</td>
<td>51</td>
<td>47</td>
<td>59</td>
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<td>US Department of Defense</td>
<td>127</td>
<td>109</td>
<td>112</td>
<td>89</td>
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<td>US Department of Education</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
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<tr>
<td>US Department of Energy</td>
<td>42</td>
<td>43</td>
<td>22</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>66</td>
<td>57</td>
<td>11</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>US Department of Transportation</td>
<td>17</td>
<td>14</td>
<td>16</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other Federal Agencies*</td>
<td>62</td>
<td>45</td>
<td>56</td>
<td>35</td>
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<td></td>
<td></td>
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<tr>
<td>Federal Agency Total</td>
<td>599</td>
<td>555</td>
<td>361</td>
<td>295</td>
<td>45,592,609</td>
<td>36,039,057</td>
<td>9,553,552</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>51</td>
<td>47</td>
<td>31</td>
<td>30</td>
<td>2,556,834</td>
<td>2,400,845</td>
<td>155,989</td>
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<tr>
<td>Industrial</td>
<td>218</td>
<td>168</td>
<td>195</td>
<td>148</td>
<td>8,743,736</td>
<td>6,401,825</td>
<td>2,341,911</td>
</tr>
<tr>
<td>Foreign</td>
<td>26</td>
<td>30</td>
<td>19</td>
<td>20</td>
<td>1,187,810</td>
<td>1,094,523</td>
<td>93,287</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>88</td>
<td>82</td>
<td>50</td>
<td>43</td>
<td>2,550,014</td>
<td>1,461,840</td>
<td>1,088,174</td>
</tr>
<tr>
<td>Subtotal</td>
<td>982</td>
<td>882</td>
<td>656</td>
<td>536</td>
<td>60,631,003</td>
<td>47,398,090</td>
<td>13,232,913</td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>275</td>
<td>281</td>
<td>3,152,856</td>
<td>3,488,475</td>
<td>-315,619</td>
</tr>
<tr>
<td>Crowdfunding</td>
<td>N/A</td>
<td>N/A</td>
<td>17</td>
<td>9</td>
<td>62,385</td>
<td>25,060</td>
<td>37,325</td>
</tr>
<tr>
<td>Grand Total</td>
<td>982</td>
<td>882</td>
<td>948</td>
<td>826</td>
<td>63,846,244</td>
<td>50,891,645</td>
<td>12,954,599</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.
## X.C: Research & Sponsored Programs

**Sponsored Awards**
- **Industry-**
- **COMBINED**
- **Fiscal Year 2019**
- **4th Quarter**
- **Ended June 30, 2019**

**TOTAL: $17,178,564**

### Proposals Submitted vs. Awards Received

<table>
<thead>
<tr>
<th>Industry Segment</th>
<th>FY '19 as of 6/30</th>
<th>FY '18 as of 6/30</th>
<th>FY '19 as of 6/30</th>
<th>FY '18 as of 6/30</th>
<th>FY '19 as of 6/30</th>
<th>FY '18 as of 6/30</th>
<th>Awards Received ($)</th>
<th>Variance</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>74</td>
<td>68</td>
<td>128</td>
<td>147</td>
<td>6,580,016</td>
<td>5,626,598</td>
<td>953,418</td>
<td>16.9%</td>
<td></td>
</tr>
<tr>
<td>Business &amp; Economics</td>
<td>3</td>
<td>3</td>
<td>13</td>
<td>13</td>
<td>64,500</td>
<td>282,861</td>
<td>-218,361</td>
<td>-77.2%</td>
<td></td>
</tr>
<tr>
<td>Chemical</td>
<td>18</td>
<td>4</td>
<td>20</td>
<td>10</td>
<td>726,667</td>
<td>268,695</td>
<td>458,172</td>
<td>170.5%</td>
<td></td>
</tr>
<tr>
<td>Civil</td>
<td>14</td>
<td>10</td>
<td>36</td>
<td>19</td>
<td>817,477</td>
<td>68,159</td>
<td>749,318</td>
<td>1099.4%</td>
<td></td>
</tr>
<tr>
<td>Consumer Products</td>
<td>44</td>
<td>21</td>
<td>39</td>
<td>50</td>
<td>970,333</td>
<td>1,274,164</td>
<td>-303,831</td>
<td>-23.8%</td>
<td></td>
</tr>
<tr>
<td>Defense &amp; Space</td>
<td>34</td>
<td>38</td>
<td>43</td>
<td>38</td>
<td>3,338,440</td>
<td>2,236,347</td>
<td>1,102,093</td>
<td>49.3%</td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>15</td>
<td>12</td>
<td>41</td>
<td>33</td>
<td>952,846</td>
<td>507,897</td>
<td>444,949</td>
<td>87.6%</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>6</td>
<td>4</td>
<td>14</td>
<td>13</td>
<td>297,141</td>
<td>194,694</td>
<td>102,447</td>
<td>52.6%</td>
<td></td>
</tr>
<tr>
<td>Health</td>
<td>17</td>
<td>11</td>
<td>22</td>
<td>22</td>
<td>219,791</td>
<td>923,406</td>
<td>-703,615</td>
<td>-76.2%</td>
<td></td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>9</td>
<td>8</td>
<td>24</td>
<td>25</td>
<td>176,088</td>
<td>209,673</td>
<td>-33,585</td>
<td>-16.0%</td>
<td></td>
</tr>
<tr>
<td>IT Services</td>
<td>8</td>
<td>5</td>
<td>19</td>
<td>14</td>
<td>638,933</td>
<td>238,100</td>
<td>400,833</td>
<td>168.3%</td>
<td></td>
</tr>
<tr>
<td>Mining &amp; Metals</td>
<td>17</td>
<td>23</td>
<td>44</td>
<td>36</td>
<td>875,765</td>
<td>450,953</td>
<td>424,812</td>
<td>94.2%</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>9</td>
<td>12</td>
<td>30</td>
<td>18</td>
<td>236,619</td>
<td>308,911</td>
<td>-72,292</td>
<td>-23.4%</td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td>19</td>
<td>16</td>
<td>30</td>
<td>19</td>
<td>1,283,738</td>
<td>907,730</td>
<td>376,008</td>
<td>41.4%</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>287</strong></td>
<td><strong>235</strong></td>
<td><strong>502</strong></td>
<td><strong>457</strong></td>
<td><strong>17,178,564</strong></td>
<td><strong>13,498,188</strong></td>
<td><strong>3,680,376</strong></td>
<td><strong>27.3%</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

**Gift numbers include Industry gifts ONLY, not others including Association or Society gifts.
Michigan Technological University
Total PRELIMINARY Research Expenditures by College/School/Division
Fiscal Year 2019 & 2018
As of June 30, 2019 Period 14 and June 30, 2018 Period 14

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>Preliminary FY2019</th>
<th>Preliminary FY2018</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>4,765,280</td>
<td>3,916,930</td>
<td>848,350</td>
<td>21.7%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>31,461,566</td>
<td>30,848,486</td>
<td>613,080</td>
<td>2.0%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>16,111,313</td>
<td>17,149,933</td>
<td>(1,038,620)</td>
<td>-6.1%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>847,214</td>
<td>471,791</td>
<td>375,423</td>
<td>79.6%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>649,719</td>
<td>385,246</td>
<td>264,473</td>
<td>68.7%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>9,103,014</td>
<td>9,167,620</td>
<td>(64,606)</td>
<td>-0.7%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>9,488,525</td>
<td>9,047,027</td>
<td>441,498</td>
<td>4.9%</td>
</tr>
<tr>
<td>School of Business &amp; Economics</td>
<td>1,559,796</td>
<td>1,411,668</td>
<td>148,128</td>
<td>10.5%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>5,417,651</td>
<td>5,787,261</td>
<td>(369,610)</td>
<td>-6.4%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>1,039,148</td>
<td>492,435</td>
<td>546,713</td>
<td>111.0%</td>
</tr>
<tr>
<td>Total</td>
<td>80,443,226</td>
<td>78,678,397</td>
<td>1,764,829</td>
<td>2.2%</td>
</tr>
</tbody>
</table>

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

**Includes GLRC department (non-academic researchers) expenditures only. All other GLRC center expenditures are shown in the researchers’ respective colleges.
ADVANCEMENT AND ALUMNI ENGAGEMENT
MICHIGAN TECH UNIVERSITY BOARD OF TRUSTEES REPORT
October 2019

Advancement

- Fundraising is currently ahead of this time last year and on pace to make quarterly goal.
- Preparing for new wealth screening of constituents.
- Compiled all content for the FY19 report to donors and forwarded for printing.
- Partnered with Financial Aid to improve and refine the student scholarship recipient thank you communication efforts by focusing on branding and personalization.
- Planned and facilitated the annual Presidential Council of Alumnae (PCA) meeting on campus in September. Arranged for speakers and presentations to inform and engage members in ways that support and advance the University's strategic plan.
- VP for Advancement is leading bi-weekly planning and funding meetings for the H-STEM building and project.
- Shaped strong collaborative efforts, especially around strategy discussion, between individual giving, corporate philanthropy, and foundations for giving opportunities.
- Advancement team members are having giving discussions with donors at gift levels from $25,000 to multi-seven-figure.
- Increased Advancement presence in schools and colleges and with advisory board and academy inductions.
- Data analysis and forecasting report and gift tables constructed for future fundraising growth and campaign preparation.
- Tactical timeline in place for Advancement and Alumni Engagement.
- Naming and gift acceptance policies in process.
- Completed first quarter strategy sessions with Directors of Advancement resulting in strategic scheduled moves, prioritized research needs, and progress planning toward fiscal year goals.
- MTF Annual and Regular meetings were held with election of new directors, committee members and officers. An orientation for new MTF board members was created and delivered.
- Presented at the Practical Planned Giving Conference about best practices in donor engagement and major gifts.
- Transitioned corporate gift processing to Michigan Tech Fund gift processing.
- Transferred corporate engagement information and data related to Tier 1 and Tier 2 corporate partners from Salesforce into Banner.
- Increased donor correspondence and gift agreement support to Directors of Advancement and AVP for Principal Gifts.
- 12 new planned gifts totaling $3.8 million
- $94,000 in realized planned gifts
- 25 illustrations, proposals, and gift agreements were provided for donors and advancement staff
• 12 executed gift agreements

• Documented Asks
  o 3 new MG Anticipated Asks = $253,500
  o 14 new MG Asks Made = $11,240,000
  o 2 PG Ask Made = $580,000
  o 3 PG Commitment Received = $2,951,027
  o 45 Cash Gifts Received = $1,588,300

• New planned gift eblasts resulted in seven direct donor-initiated contacts with giving discussions and increased traffic at www.mtulegacy.org.

• Onboarded and cross-trained support staff in prospect research and expense reimbursement.

Principal Gifts

• Working to close a $9+ million planned gift proposal along with a five-figure outright gift. This will be for scholarships for the College of Sciences and Arts, with an emphasis on the Physics, Chemistry and Math

• We have an outstanding multi-million dollar proposal. This includes endowed scholarships and endowed faculty positions, with a portion of it benefiting the school of Forest Resources and Environmental Sciences

• Working on a $1.6 million planned gift proposal, along with a 5 figure outright gift proposal. This proposed gift would be for equipment, endowed scholarships and faculty positions in the Geological Engineering department, with an emphasis in mining

• Working on a multi-million proposal for faculty position(s) in the College of Computing

• Working on a $1 million outright proposal for an endowed professorship in ME-EM

Foundation Relations

• Katie Buehner attended NFRI- Nonprofit Funder Research Institution Partnership in Washington DC

• Plexus Foundation $150,000 Agreement for naming of Plexus Student Lab finalized

• October campus visits from: the Annexstad Foundation, Portage Health Foundation Executive Board, McAllister Foundation Trustees, Michigan Health Endowment Fund program officer, and Thomspson Foundation.

• Phase I Keck Foundation proposal, $1M, Lynn Mazzoleni, Will Cantrell, Daisuke Minakate, and Laura Brown

• Awarded the Randy Owsley Memorial and Portage Health Foundation Scholarships for Athletic Training Internships

Industry Engagement

• Established and deployed Corporate Council, chaired by Cody Kangas
  o Jim Baker, Brent Burns, Rick Berkey, Katie Buehner, Beth Williams

• Corporate Council developing movement strategies to deliver seven-figure philanthropic proposals to Presidential Top 10 Industry Partners within 18-24 months
• President Koubaek and Dean Minerick engaged in strategic industry visits with executive sponsors at
  GM, Ford and FCA (July 16-17)
• Notable industry awards won (Q1):
  o Plexus: $150,000
  o GM: $110,000
  o ArcelorMittal: $61,500
  o Donald Engineering: $50,000
• Notable campus visits:
  o Dean Kamen, DEKA & FIRST Robotics
  o Dr. Edmund Schweitzer, SEL
• Actively consulting with academic departments to assist with refreshing and reimagining external
  advisory boards

Annual Giving

• Overall Annual Giving goal is $2.7 million. As of September 30, $462,805 (17% of goal) has been
  raised.
• Annual Fund (unrestricted) goal is $1.5 million. As of September 30, $154,379 (12% of goal) has been
  raised.
• Michigan Tech Student Foundation (MTSF) participated in:
  o Move In Day - selling Yooper candy bars to be delivered to students during the first week of
    school. $865 was raised for the Annual Fund scholarship.
  o Taste of Tech Traditions - promoted the Husky Bucket List by showing students tasks on the list
    that could be completed while at the event - to include sampling pickled eggs!
  o 906 Day - raffled off 906 themed prizes and talked to students about the Keweenaw
  o Homecoming - passed out towels during cardboard boat races which showed that the students
    had participated in #65 on the Husky Bucket List.
• Student call center started back on August 28. Calling athletics and those that those that gave last
  fiscal year but not yet this year and those that gave before but not last fiscal year or yet this year.
• Campus campaign kicked off in September with annual print piece going out.
• Working on mail pieces for the Presidents Club, Provost Club and athletics.
• Begun sending personal emails to last year’s 906 Club members thanking them for their membership
  and asking them to renew this year.

Alumni Engagement

• 453 alumni, students and friends attended the annual reunion, August 1-3. Close to 100 of those were
  alumni from the Golden M Class of 1969 and earlier. Class gifts totaled $745,639.
• The Alumni Board of Directors met on campus over Homecoming. They visited a number of
  departments to ascertain how alumni could help with departmental initiatives. They are launching a
  Chapter Ambassador program which will have board members more involved regionally to support
  chapter leaders. We anticipate a significant increase in regional activities as a result. The Board
  continues to support the Cardboard Boat Race participants by providing towels and this year, also built
  their own boat to compete in the races.
• Our monthly enewsletter is segmented for three audiences and continues to garner open and click
  rates that are significantly higher than the national average*. Gold (up to 24 years old) 22% open, 14% 
  click rate, Mids (35 to 59 years old) 28% open, 27% click rate and Legacy (60 and older) 34% open,
  30% click rate. (Higher Education email benchmark: 15.89 Open rate, 7.22 click rate

- Upcoming events: Red Wings Michigan Tech Night - December 15; Great Lakes International - December 30-31
X-E. MEDIA COVERAGE

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

This is for the Board’s information.
Media Report: July 15, 2019 to September 30, 2019
Michigan Technological University
Regular Meeting of the Board of Trustees
October 11, 2019

Overview

<table>
<thead>
<tr>
<th>Articles</th>
<th>811</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social shares</td>
<td>202,436</td>
</tr>
<tr>
<td>Average shares</td>
<td>249</td>
</tr>
<tr>
<td>Journalist shares</td>
<td>570</td>
</tr>
<tr>
<td>Journalist reach</td>
<td>12.33M</td>
</tr>
<tr>
<td>Unique visitors per month (UVM)</td>
<td>1.37B</td>
</tr>
</tbody>
</table>

Between July 15 and September 30, 2019, a total of 811 articles mentioned Michigan Technological University.
Those 811 articles were shared on social media more than 202,000 times.

Journalists shared the articles on Twitter 570 times, resulting in a reach of more than 12.33 million people:
News highlights:
The University’s launch announcement of a varsity esports program was first reported by the Detroit Free Press and picked up by the Associated Press. Athletic Director Suzanne Sanregret was recently interviewed on Michigan Radio’s Stateside.

- https://apnews.com/7d46a27a6c0d5f9f9fdd5302cd372c5e1

Other news highlights include coverage of the new College of Computing and Michigan Tech’s ADVANCE program:


Research news highlights include coverage of Michigan Tech’s drone research in US News and World Report and numerous other outlets:

# News Media Report, Regular Meeting of the Board of Trustees, Oct. 11, 2019 - Article Summary

<table>
<thead>
<tr>
<th>Date</th>
<th>Articles</th>
<th>UVM</th>
<th>Total Shares</th>
<th>Journalist Share</th>
<th>Journalist Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2019</td>
<td>301</td>
<td>592,766,052</td>
<td>82,353</td>
<td>236</td>
<td>8,444,050</td>
</tr>
<tr>
<td>August 2019</td>
<td>312</td>
<td>654,536,477</td>
<td>66,643</td>
<td>189</td>
<td>1,904,379</td>
</tr>
<tr>
<td>July 2019</td>
<td>118</td>
<td>483,024,908</td>
<td>53,440</td>
<td>145</td>
<td>1,978,062</td>
</tr>
</tbody>
</table>
X-F.  EMPLOYEE SAFETY STATISTICS

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

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

January 1 - September 13, 2018/2019

<table>
<thead>
<tr>
<th>Category</th>
<th>Years</th>
<th>Employee Classification</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AFSCME</td>
<td>Faculty</td>
</tr>
<tr>
<td>Injury Only w/Medical - No Lost Time</td>
<td>2018</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Lost Time Cases</td>
<td>2018</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Restricted Work Cases</td>
<td>2018</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)</td>
<td>2018</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>Injury Lost Time</td>
<td>2018</td>
<td>40</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>59</td>
<td>9</td>
</tr>
<tr>
<td>Restricted Work Days</td>
<td>2018</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>101</td>
<td>30</td>
</tr>
<tr>
<td>Total Work Hours</td>
<td>2018</td>
<td>211,824</td>
<td>567,486</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>194,322</td>
<td>522,834</td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2018</td>
<td>10.7%</td>
<td>28.8%</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>10.6%</td>
<td>28.7%</td>
</tr>
<tr>
<td>Lost Time Case Rate</td>
<td>2018</td>
<td>4.7%</td>
<td>0.0%</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>6.2%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Frequency Rate (Recordable)</td>
<td>2018</td>
<td>6.6%</td>
<td>0.0%</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>9.3%</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 the 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.
XI. OTHER BUSINESS
XII. DATE FOR NEXT FORMAL MEETING: DECEMBER 13, 2019
XIV. ADJOURN
Brenda Ryan, Chair