I. Call to Order
Brenda Ryan, Chair

II. Roll Call
Sarah Schulte, Secretary

III. Confirm Agenda
Brenda Ryan, Chair

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

VI. Committee Reports
A. Academic Affairs
   Linda Kennedy, Committee Chair
B. Audit and Finance Committee
   Jeff Littmann, Committee Chair
C. Leadership Committee
   Bill Johnson, Committee Chair

VII. Consent Agenda
A. Approval of Minutes
B. Degrees in Course
C. Resignations, Retirements, and Off Payroll
D. Fundraising Productivity Report
E. 2021 Meeting Dates
F. Temporary Suspension of Board Bylaw 1.13

VIII. Action and Discussion Items
A. Employee Recognition
   Brenda Ryan, Chair
B. Five-year State Capital Outlay Plan
   Sue Kerry, Treasurer
C. Melvin Calvin Medal of Distinction
   Jackie Huntoon, Provost

IX. Reports
A. Recruiting and Enrollment Update
   John Lehman, Vice President for University Relations and Enrollment
B. State Budget Report
   Bill Kordenbrock, Vice President for Government Relations
C. COVID-19 Contact Tracing and Testing
   Kelly Kamm, Associate Professor KIP, Epidemiologist
D. Undergraduate Student Government
   Larkin Hooker-Moericke, President
E. Graduate Student Government
   Nathan Ford, President
F. University Senate
   Samuel Sweitz, President

X. Informational Items
A. Analysis of Investments
B. Research & Sponsored Programs
C. Advancement & Alumni Relations
D. Media Coverage
E. Employee Safety Statistics

XI. Other Business

XII. Date for Next Formal Meeting: December 18, 2020

XIII. Adjourn
I. CALL TO ORDER
Brenda Ryan, Chair

II. ROLL CALL
Sarah Schulte, Secretary

III. CONFIRM AGENDA
Brenda Ryan, Chair

RECOMMENDATION: That the Board of Trustees approves the agenda for the formal session of October 9, 2020 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 – Jeff Littmann
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. Resignations, Retirements, and Off Payroll
D. Fundraising Productivity Report
E. 2021 Meeting Dates
F. Temporary Suspension of Board Bylaw 1.13
VII-A. APPROVAL OF MINUTES
VII-B. DEGREES IN COURSE
MEMORANDUM

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

From: Theresa Jacques
Registrar’s Office

Date: September 14, 2020

Subject: Candidates for Degrees – Conferral Term 202005

The attached list of candidates for degrees, beginning with Vrushabh Vijaya Kumar Malgate and ending with Zhongyuan Hu 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
Michigan Technological University
Degrees Awarded for Conferral Term 202005

Michigan Technological University Registrar's Office September 22, 2020

Bachelor of Arts in Communication, Culture, and Media
• Vrushabh Vijaya Kumar Malgatte

Bachelor of Arts in Scientific and Technical Communication
• Corinne Mercedes VanOstran
• Sarah Elizabeth Lindbeck - Magna Cum Laude

Bachelor of Science in Applied Geophysics
• Eric Lissander F Anderson Oliveira

Bachelor of Science in Audio Production and Technology
• Ryan Neil Nicklas

Bachelor of Science in Biological Sciences
• Katrianna Clair Studtmann - Magna Cum Laude*

Bachelor of Science in Biomedical Engineering
• Allison Michelle Jager
• James David Roland
• Joshua E Geschke

Bachelor of Science in Chemical Engineering
• Korey Michelle Mckinley - Summa Cum Laude
• Miles Raymond LeViere - Magna Cum Laude*

Bachelor of Science in Chemistry
• Jason Riley Barr
Bachelor of Science in Civil Engineering
• Adeline Ruth Hummel
• Cole Vincent LeBarre
• John Thomas Seilsopour
• Zachary Russell Davis

Bachelor of Science in Computer Engineering
• Michael Thomas Stock - Cum Laude

Bachelor of Science in Computer Network and System Administration
• Derek Paul Laker
• Marton Albert
• Ryan Stephen Jacobson
• Thomas Bialy

Bachelor of Science in Computer Science
• Alexander Philip Larkin - Cum Laude
• Brandon Michael Wichman
• Brendan James Fyan
• Jacob Ross McNeilly
• Jeremy Ruslan Guinn
• Keith Wesley Atkinson
• Robin N Kerr
• Sequoyah P Swiercz

Bachelor of Science in Construction Management
• Austin James Hintz
• John Michael Ball
• Joseph Bradley Hardin

Bachelor of Science in Economics
• Sarah Goble - Magna Cum Laude
Bachelor of Science in Electrical Engineering
- Addison Joe Waege - Magna Cum Laude
- Charles Stanley Powell
- Daniel Demmer Groess - Cum Laude
- Dayton Matthew Clark
- Joshua John Frederick Ayres
- Megan Kerry Patrick
- William Joseph Horan

Bachelor of Science in Electrical Engineering Technology
- Larry Thomas Stambeck

Bachelor of Science in Engineering Management
- Stephanie Suzanne Bauchet

Bachelor of Science in Environmental Engineering
- Julia Eve Manzano - Cum Laude
- Katharine Margaret Gula

Bachelor of Science in Exercise Science
- Matthew J Bersano
- Montanna Elizabeth Windham*

Bachelor of Science in Finance
- Benjamin David Hutchison
- Mitchell Denham Barrington Meek - Magna Cum Laude

Bachelor of Science in Forestry
- Joshua Aaron Isaac

Bachelor of Science in Management
- Mitchell A Edick
Bachelor of Science in Management Information Systems
- Robbie A Beydoun - Magna Cum Laude
- Stephanie Lynn Verville

Bachelor of Science in Materials Science and Engineering
- Brendan L Treanore
- Pierce Joseph Mayville

Bachelor of Science in Mathematics
- Anna Elaine Dawson
- Joseph Paul Phillips
- Tyrik Dequan Wicks

Bachelor of Science in Mechanical Engineering
- Aaron Joseph Streng
- Aaron N Ebling
- Clarice Elizabeth Hill - Magna Cum Laude
- Clayton Howard Cross
- Gita A Deonarain - Magna Cum Laude
- Gregory Scott Seppanen
- Jordan David Null - Magna Cum Laude
- Joshua Michael Carpenter
- Mitchell J Fitzpatrick
- Nicole Catherine Wright
- Samuel Martin Wurst - Cum Laude
- Sidney Ann Schroeder
- Tristin Reed Franckowiak
- Tyler Gary Seaman
- Tyler Jeffrey Kulich
- Zachary Mark Schwab
- Zachary Scott Rutherford
Bachelor of Science in Mechanical Engineering Technology
  • Frances J Luo - Cum Laude*
  • Hunter Scott Karlen*

Bachelor of Science in Medical Laboratory Science
  • Madisyn Lynne Estkowski
  • Mizuki Kozu

Bachelor of Science in Mining Engineering
  • Garrett James Singer

Bachelor of Science in Psychology
  • Alexandra Bobbette Pippenger

Bachelor of Science in Software Engineering
  • Caleb Andrew Hill
  • Robert Louis Eriksen-O'Rourke

Bachelor of Science in Sports and Fitness Management
  • Alexis Elizabeth Savard

Master of Business Administr. in Business Administration
  • Cody W Kunnari
  • LeAnn Nicole Schaefer

Master of Forestry in Forestry
  • Ashley Serena Laux
  • Shane Jerome Mrozek

Master of Science in Accounting
  • Daniel George Schudlich
  • Mathew Joseph Mcfarland
  • Shannon Eve Forsberg
Master of Science in Applied Cognitive Science and Human Factors
  • Lamia Alam

Master of Science in Applied Natural Resource Economics
  • Vongdalone Vongsikeo

Master of Science in Applied Physics
  • Manpreet Boora

Master of Science in Applied Science Education
  • Danielle Amelia Dean

Master of Science in Biological Sciences
  • Bailey Bernard Duxbury
  • Kathleen Mae Martin
  • Lindsey Marie Schenten
  • Sarah Elizabeth LewAllen

Master of Science in Biomedical Engineering
  • Hannah Jean Hitchcock
  • Morgan Lee Ferguson

Master of Science in Chemical Engineering
  • Cameron Stuart Miller
  • FNU Ananya
  • Victor Joseph Claremboux
  • Vinaykumar Maganbhai Boghara

Master of Science in Chemistry
  • Nazanin Nahrjou

Master of Science in Civil Engineering
  • Marjan Monfarednasab
Master of Science in Cybersecurity
  • Bernard Emory Kluskens

Master of Science in Data Science
  • Josef Pichler Pishek

Master of Science in Electrical Engineering
  • Akshay Manish Dandgaval
  • Hannah Mae Stoll
  • Jerrica A Jones
  • Kanad Bhagwat
  • Krutika Shetkar
  • Zachary Douglas Jeffries

Master of Science in Environmental Engineering
  • Ryan Jacob Kibler

Master of Science in Environmental and Energy Policy
  • Azat Turegeldin
  • Karuna Rana
  • Robert John Zupko

Master of Science in Forest Ecology and Management
  • Elisabeth Viola Stimmel

Master of Science in Geological Engineering
  • Joyata Yatinkumar Raval

Master of Science in Geology
  • Celine Mei-An Carus
  • Heather Thole
  • Roberto Cuahutemoc Armijo
Master of Science in Geophysics
  • Katie E Bristol
  • Mohamed Mahmoud Shawky Abuzaid Mohamed

Master of Science in Industrial Archaeology
  • Brendan Joseph Doucet
  • Gideon Lee Hoekstra

Master of Science in Kinesiology
  • Hannah Cunningham

Master of Science in Materials Science and Engineering
  • Erin J VanDusen
  • Matthew J Thomas
  • Sahil Dhoka

Master of Science in Mechanical Engineering
  • Aditya Vasant Wagh
  • Akhil Komma
  • Atharva Manoj Rahane
  • Chinmay Prasad Sathe
  • Chinmay Yogesh Halari
  • Connor Joseph McCann
  • Himanshu Abhi
  • Jacob R Liimatta
  • Jonathan Brian Markl
  • Manas Arora
  • Mattias Mark Hoehnen
  • Narendra Prakash Patwardhan
  • Pruthak Milankumar Parikh
  • Pushkar Prashant Khairnar
  • Radhika Sitaraman
  • Raghu Ram Kommineni
• Rishabh Awasthi
• Saurabh Shankar Shegokar
• Shreyans Subhash Sethia
• Shubham Vatsa
• Subin Sayinatha Shetty
• Sudarshan Tak
• Sumit Mishra
• Syed Ahmad Nadeem
• Thomas Kenneth Price
• Vishal Umesh Shanbhag
• Walker Houston Nelson

Master of Science in Mining Engineering
• Adel Asadi

Master of Science in Statistics
• Praveen Tharuka Wijewardana Perera Hettige

Doctor of Philosophy in Biological Sciences
• Brian M Danhoff
• Colin Neil Brooks

Doctor of Philosophy in Biomedical Engineering
• Rattapol Pinnaratip

Doctor of Philosophy in Chemical Engineering
• Dylan Gregory Turpeinen
• Pratik Umesh Joshi

Doctor of Philosophy in Civil Engineering
• Dongdong Ge
• Jiaqing Wang
Doctor of Philosophy in Computer Science
  • Ali Jalooli
  • Gorkem Asilioglu

Doctor of Philosophy in Engineering - Environmental Engineering
  • Hossein Tavakoli

Doctor of Philosophy in Environmental and Energy Policy
  • Brent Jeremiah Burns

Doctor of Philosophy in Forest Science
  • Elizabeth Montgomery Barnes
  • Munkaila Musah

Doctor of Philosophy in Materials Science and Engineering
  • Haotian Zhang

Doctor of Philosophy in Mathematical Sciences
  • Dilek Erkmen

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics
  • Alexander W Miranda
  • Maryam Pourhasanzadehsharifi
  • Sarah Jalal
  • Thomas Mancuso

Doctor of Philosophy in Rhetoric, Theory and Culture
  • Elizabeth A Renshaw
  • Nancy Henaku

Doctor of Philosophy in Statistics
  • Zhongyuan Hu
*Addendum to Conferral

- Katrina Claire Studtmann awarded in term 202001
- Miles Raymond LeViere awarded in term 202001
- Montanna Elizabeth Windham awarded in term 202001
- Frances J. Luo awarded in term 202001
- Hunter Scott Karlen awarded in term 202001
VII-C. RESIGNATIONS, RETIREMENTS, AND OFF PAYROLL
## 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>Cheryl Bloom</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>08/31/1990</td>
<td>08/21/2020</td>
</tr>
<tr>
<td>Joyce Fountaine</td>
<td>Staff</td>
<td>Financial Services &amp; Operations</td>
<td>Administrative Aide 7</td>
<td>03/11/1985</td>
<td>07/24/2020</td>
</tr>
<tr>
<td>W. Charles Kerfoot</td>
<td>Faculty</td>
<td>Biological Sciences</td>
<td>Professor</td>
<td>08/28/1989</td>
<td>08/15/2020</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>Jordon Astle</td>
<td>Staff</td>
<td>Physics</td>
<td>Laboratory Technician</td>
<td>05/20/2019</td>
<td>07/17/2020</td>
</tr>
<tr>
<td>Lisa Cunard</td>
<td>Staff</td>
<td>Civil &amp; Environmental Engineering</td>
<td>Office Assistant 4</td>
<td>03/09/2015</td>
<td>09/05/2020</td>
</tr>
<tr>
<td>Vesper Dobbs</td>
<td>Staff</td>
<td>Academic &amp; Community Conduct</td>
<td>Office Assistant 6</td>
<td>08/28/2017</td>
<td>07/26/2020</td>
</tr>
<tr>
<td>John Durocher</td>
<td>Faculty</td>
<td>Biological Sciences</td>
<td>Associate Professor</td>
<td>05/30/2010</td>
<td>08/16/2020</td>
</tr>
<tr>
<td>Patricia Frueh</td>
<td>Staff</td>
<td>Center Student Mental Health</td>
<td>Assistant Director</td>
<td>08/14/2017</td>
<td>08/14/2020</td>
</tr>
<tr>
<td>Mark Gockenbach</td>
<td>Staff</td>
<td>Mathematical Sciences</td>
<td>Department Chair</td>
<td>08/31/1998</td>
<td>08/01/2020</td>
</tr>
<tr>
<td>Rachel Griffin</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Office Assistant 6</td>
<td>11/06/2017</td>
<td>09/04/2020</td>
</tr>
<tr>
<td>Latika Gupta</td>
<td>Faculty</td>
<td>College of Business</td>
<td>Assistant Professor</td>
<td>08/18/2014</td>
<td>07/02/2020</td>
</tr>
<tr>
<td>Janette Haase</td>
<td>Staff</td>
<td>Keweenaw Research Center</td>
<td>Research Engineer I</td>
<td>09/06/2004</td>
<td>08/04/2020</td>
</tr>
<tr>
<td>Derek Holzberger</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>10/21/2019</td>
<td>08/10/2020</td>
</tr>
<tr>
<td>Ellen Horsch</td>
<td>Faculty</td>
<td>College of Business</td>
<td>Professor of Practice</td>
<td>11/23/1986</td>
<td>07/20/2020</td>
</tr>
<tr>
<td>Michelle Jacob</td>
<td>Staff</td>
<td>General Athletics</td>
<td>Head Coach Women’s Soccer</td>
<td>02/01/2010</td>
<td>08/24/2020</td>
</tr>
<tr>
<td>Roger Kieckhafer</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>08/20/2000</td>
<td>07/19/2020</td>
</tr>
<tr>
<td>Benjamin Larson</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Director of Advancement</td>
<td>04/09/2007</td>
<td>07/30/2020</td>
</tr>
<tr>
<td>Ashley Laux</td>
<td>Staff</td>
<td>Financial Aid Administration</td>
<td>Financial Aid Manager</td>
<td>11/30/2016</td>
<td>09/04/2020</td>
</tr>
<tr>
<td>Belinda Mattfolk</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>04/09/2018</td>
<td>08/11/2020</td>
</tr>
<tr>
<td>Joseph Neher</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>01/08/2014</td>
<td>08/10/2020</td>
</tr>
<tr>
<td>Jennifer Niecevski</td>
<td>Staff</td>
<td>Kinesiology/Integrative Physiology</td>
<td>Polysomnographic Trainee</td>
<td>11/18/2019</td>
<td>08/16/2020</td>
</tr>
<tr>
<td>Saeid Nooshabadi</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Professor</td>
<td>02/01/2010</td>
<td>08/31/2020</td>
</tr>
<tr>
<td>Gail North</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Business Intelligence Developer</td>
<td>06/16/2008</td>
<td>07/31/2020</td>
</tr>
<tr>
<td>Jill Null</td>
<td>Staff</td>
<td>Auxiliary Services</td>
<td>Catering Sales Coordinator</td>
<td>08/14/2017</td>
<td>07/24/2020</td>
</tr>
<tr>
<td>Travis Pihlaja</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Building Mechanic I</td>
<td>04/02/2012</td>
<td>08/19/2020</td>
</tr>
<tr>
<td>Justin Ploe</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Programmer / Analyst</td>
<td>11/19/2018</td>
<td>08/07/2020</td>
</tr>
<tr>
<td>Hao Qi</td>
<td>Faculty</td>
<td>College of Business</td>
<td>Professor</td>
<td>08/15/2005</td>
<td>07/02/2020</td>
</tr>
<tr>
<td>Rupak Rajachar</td>
<td>Faculty</td>
<td>Biomedical Engineering</td>
<td>Principal Lecturer</td>
<td>08/13/2006</td>
<td>08/15/2020</td>
</tr>
<tr>
<td>Alexander Renshaw</td>
<td>Staff</td>
<td>Humanities</td>
<td>Administrative Aide 7</td>
<td>02/27/2017</td>
<td>07/27/2020</td>
</tr>
<tr>
<td>Andrew Rollenhagen</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Programmer/Analyst</td>
<td>05/23/2011</td>
<td>08/14/2020</td>
</tr>
<tr>
<td>Kortni Rule</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>01/04/2016</td>
<td>07/27/2020</td>
</tr>
<tr>
<td>Victoria Sharich</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>08/14/2017</td>
<td>08/12/2020</td>
</tr>
<tr>
<td>Anne Tikkanen</td>
<td>Staff</td>
<td>Kinesiology/Integrative Physiology</td>
<td>Research Study Coordinator</td>
<td>12/04/2017</td>
<td>08/16/2020</td>
</tr>
<tr>
<td>Ebenezer Tumban</td>
<td>Faculty</td>
<td>Biological Sciences</td>
<td>Associate Professor</td>
<td>08/18/2014</td>
<td>08/01/2020</td>
</tr>
<tr>
<td>Feng Zhao</td>
<td>Faculty</td>
<td>Biomedical Engineering</td>
<td>Associate Professor</td>
<td>08/07/2011</td>
<td>08/08/2020</td>
</tr>
</tbody>
</table>
VII-D. FUNDING PRODUCTIVITY REPORT
## Fundraising Productivity Report

July 1, 2020 through Sep 15, 2020

Compared to Prior Fiscal Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY21</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YTD Total (in millions)</td>
<td>Adjustment</td>
</tr>
<tr>
<td>Individual Giving</td>
<td>2,606,076</td>
<td>2,000,000</td>
</tr>
<tr>
<td>Corporate Giving</td>
<td>116,212</td>
<td>1</td>
</tr>
<tr>
<td>Foundation &amp; Other Org Giving</td>
<td>133,589</td>
<td>1</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>2,289,123</td>
<td>11</td>
</tr>
<tr>
<td><strong>FUNDRAISING TOTAL</strong></td>
<td><strong>5,145,000</strong></td>
<td><strong>2,000,000</strong></td>
</tr>
</tbody>
</table>

**Notes:**

The Adjustment totals include changes to gift records (e.g. gift received date, amount, or other donor driven gift modifications).
The FUNDRAISING TOTAL includes outright gifts, as well as new pledge and planned gift commitments, made in the specified date range.
Realized planned gifts and realized pledges are not included in the FUNDRAISING TOTAL.
An individual's gifts made through a donor-advised fund are counted under the individual.
An individual's gifts made through another source (i.e. family foundation or closely held business) are counted under the source entity.
The FUNDRAISING TOTAL for fiscal years 2020 and later include gifts-in-kind under other sources (Major Gifts, Annual Giving, etc.).
VIII-E. 2020 MEETING DATES

The following dates are presented for approval.

   Friday, February 26, 2021
   Friday, April 30, 2021
   Thursday, August 5, 2021
   Friday, October 8, 2021
   Friday, December 17, 2021

RECOMMENDATION: That the Board of Trustees approves the meeting dates as presented.
VIII-F. TEMPORARY SUSPENSION OF BOARD BYLAW 1.13

Michigan Technological University moved to Health and Safety Level 4 on September 28 to support the local community's cooling off period requested by public health officials. In furtherance of that support, the October 2020 Board of Trustees meeting will take place virtually. Board Bylaw 1.13 requires that at least three Board members be physically present for a formal session of the Board. Travel for this purpose is not advisable at this time.

RECOMMENDATION: That the Board of Trustees temporarily suspends the portion of Board Bylaw 1.13 that requires at least three Board Members be physically present for a formal session of the Board for the October 2020 formal session only.
VIII. ACTION AND DISCUSSION ITEMS

A. Employee Recognition
B. Five-year State Capital Outlay Plan
C. Melvin Calvin Award Medal of Distinction
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.) Joyce Fountaine - 35 years of service
VIII-B. FY22 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY22 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 FY22 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/FY 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>62,000</td>
<td>11,000</td>
<td>$44,700</td>
<td>$29,700</td>
<td>$15,000</td>
<td>2022/2025</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 Association, 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. The Schematic Design and Programming Statement were submitted to the State in March 2020 for review. Construction approval will be sought from the Board of Trustees in spring 2022.**
VIII-C. MELVIN CALVIN MEDAL OF DISTINCTION

The Melvin Calvin Medal of Distinction is Michigan Tech’s highest honor. It is bestowed on individuals who have exhibited truly distinguished professional and personal accomplishments and who have been associated with the University. The administration is recommending Mr. Kanwal Rekhi for the prestigious Melvin Calvin Medal of Distinction.

He has long had close ties to Michigan Tech and is a regular presence on campus, visiting at least twice each year with the 14 Floors group of alums. Graduating in 1969 with a master's degree in electrical engineering, he has served on the President's International Advisory Board. He previously received an honorary Doctorate in Business and Engineering from Michigan Tech in 1997 and the Board of Control Silver Medal for outstanding service to the University in 1994. Most recently, Kanwal received a Distinguished Alumni Award from Michigan Tech in 2000.

Rekhi founded Excelan, a pioneering computer networking company and one of the first to commercially develop the TCP/IP protocol. In 1989 Excelan merged with Novell, where Rekhi served as executive vice president, chief technology officer, and a member of the board of directors. Rekhi was named Entrepreneur of the Year by Venture magazine in 1987. He soon became a high-profile, super-angel while co-founding and leading TiE (The Indus Entrepreneurs) into the largest global mentoring network for Indian entrepreneurs. Rekhi co-founded Inventus Capital Partners in 2007 to institutionalize their high-conviction early stage approach to help them build category defining companies. Currently a managing partner at Inventus, the company has helped Silicon Valley founders grow from early-stage startups into meaningful companies with aggregate annual sales of over $1 Billion. Notable Inventus companies include Poshmark in the fashion industry, Credit Sesame in the consumer credit & finance markets, and Sierra Atlantic in the outsourced product development industry. In addition to his role at Inventus, Kanwal has provided capital to local Michigan Tech start-up companies, and serves as a mentor to not only those, but also a number of individual students in early-phase development. Kanwal and his wife, Ann, have a building on campus in their name – the Kanwal and Ann Rekhi Computer Science Hall.

RECOMMENDATION: The Board of Trustees approve the awarding of the Melvin Calvin Medal of Distinction to Mr. Kanwal Rekhi.
IX. REPORTS

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

B. State Budget Report - Bill Kordenbrock, Vice President for Government Relations

C. COVID-19 Contact Tracing and Testing - Kelly Kamm, Associate Professor KIP, Epidemiologist

D. Undergraduate Student Government – Larkin Hooker-Moericke, President

E. Graduate Student Government – Nathan Ford, President

F. University Senate – Sam Sweitz, President
IX-A. RECRUITING AND ENROLLMENT UPDATE

John Lehman, Vice President for University Relations and Enrollment
Female Enrollment History

- 2010: 9.3%
- 2000: 30.0%
- 1523: 29.3%
- Women: 1500
- Women %: 1000
- Michigan Technological University
- Recruiting and Enrollment Update
- 10/9/2020
Domestic Diversity

- African American/Non-Hispanic American
- American Indian/Alaskan Native
- Asian/Asian American
- Hispanic/Hispanic American
- Multiracial
- Pacific Islander

% domestic diversity

Fall 1999: 5.4%
Fall 2000: 5.7%
Fall 2001: 6.4%
Fall 2002: 6.5%
Fall 2003: 5.9%
Fall 2004: 6.7%
Fall 2005: 7.1%
Fall 2006: 6.7%
Fall 2007: 6.6%
Fall 2008: 7.2%
Fall 2009: 7.4%
Fall 2010: 7.6%
Fall 2011: 8.3%
Fall 2012: 8.5%
Fall 2013: 8.2%
Fall 2014: 8.1%
Fall 2015: 9.1%
Fall 2016: 9.5%
Fall 2017: 10.4%

10/9/2020
Michigan Tech New Freshmen

-100, -7%

Recruiting and Enrollment Update

10/9/2020
Incoming Domestic Diversity

African American/Non-Hispanic
American Indian/Alaskan Native
Asian/Asian American
Hispanic/Hispanic American
Multiracial
Pacific Islander
% of domestic diversity in class

10/9/2020
Recruiting and Enrollment Update
Recalibrated tiers for incoming class of 2019
### Incoming Freshmen High School GPA

<table>
<thead>
<tr>
<th>Year</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>3.50</td>
</tr>
<tr>
<td>2001</td>
<td>3.51</td>
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<tr>
<td>2002</td>
<td>3.54</td>
</tr>
<tr>
<td>2003</td>
<td>3.51</td>
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<tr>
<td>2004</td>
<td>3.50</td>
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<tr>
<td>2005</td>
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<td>2007</td>
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<td>2008</td>
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<td>2009</td>
<td>3.58</td>
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<td>2010</td>
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<td>2011</td>
<td>3.60</td>
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<td>2012</td>
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<td>2013</td>
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<td>2015</td>
<td>3.72</td>
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<td>2016</td>
<td>3.75</td>
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<td>2017</td>
<td>3.78</td>
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<td>2018</td>
<td>3.80</td>
</tr>
<tr>
<td>2019</td>
<td>3.80</td>
</tr>
<tr>
<td>2020</td>
<td>3.80</td>
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</table>

**Recruiting and Enrollment Update**

10/9/2020
THANK YOU
IX-B. STATE BUDGET REPORT

Bill Kordenbrock, Vice President for Government Relations
Michigan Tech
State Appropriation Overview

<table>
<thead>
<tr>
<th>FY2019-20</th>
<th>FY2020-21</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50,568,100</td>
<td>$50,795,200</td>
<td>+0.4%</td>
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</table>
### Summary: FY 2020-21 University Performance Funding Increases

#### Conference Summary

<table>
<thead>
<tr>
<th>University</th>
<th>FY 2019-20 Indian Tuition Year-to-Date Appropriation</th>
<th>FY 2019-20 Year-to-Date Appropriation</th>
<th>Total FY 2019-20 Funding Increase</th>
<th>FY 19 Indian Tuition Waiver Cost</th>
<th>Indian Waiver through Adjustment</th>
<th>Indian Tuition Waiver Adjustment</th>
<th>Total FY21 Tuition Waiver Payment</th>
<th><strong>Other Adjustments</strong></th>
<th>Proposed FY 2020-21 Appropriation</th>
<th>Percent Change</th>
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</thead>
<tbody>
<tr>
<td>Central</td>
<td>$1,598,100</td>
<td>$89,227,800</td>
<td>$1,848,400</td>
<td>$79,700</td>
<td></td>
<td></td>
<td>$1,964,500</td>
<td>$0</td>
<td>$89,564,500</td>
<td>0.4%</td>
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<tr>
<td>Eastern</td>
<td>302,300</td>
<td>77,558,000</td>
<td>301,500</td>
<td>(800)</td>
<td></td>
<td></td>
<td>301,500</td>
<td></td>
<td>77,555,200</td>
<td>0.0%</td>
</tr>
<tr>
<td>Ferris</td>
<td>1,070,300</td>
<td>56,032,800</td>
<td>908,800</td>
<td>(98,500)</td>
<td></td>
<td></td>
<td>908,800</td>
<td></td>
<td>55,934,300</td>
<td>(0.2%)</td>
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<tr>
<td>Grand Valley</td>
<td>1,075,000</td>
<td>73,388,500</td>
<td>1,177,200</td>
<td>102,200</td>
<td></td>
<td></td>
<td>1,177,200</td>
<td></td>
<td>73,490,700</td>
<td>0.1%</td>
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<tr>
<td>Lake Superior</td>
<td>954,000</td>
<td>14,361,000</td>
<td>945,100</td>
<td>(100,000)</td>
<td></td>
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<td>845,100</td>
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<td>15,252,100</td>
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<td>Michigan State</td>
<td>1,467,700</td>
<td>286,799,400</td>
<td>1,604,000</td>
<td>136,300</td>
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<td></td>
<td>1,640,300</td>
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<td>268,935,700</td>
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<td>Michigan Tech</td>
<td>466,500</td>
<td>50,568,100</td>
<td>693,500</td>
<td>227,100</td>
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<td>693,500</td>
<td></td>
<td>50,795,200</td>
<td>0.4%</td>
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<tr>
<td>Northern</td>
<td>1,100,000</td>
<td>48,909,100</td>
<td>1,180,800</td>
<td>50,000</td>
<td></td>
<td></td>
<td>1,080,800</td>
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<td>48,869,700</td>
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<tr>
<td>Oakland</td>
<td>285,100</td>
<td>53,432,500</td>
<td>266,100</td>
<td>(19,000)</td>
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<td></td>
<td>246,100</td>
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<td>53,413,500</td>
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<td>Saginaw Valley</td>
<td>223,900</td>
<td>30,807,700</td>
<td>219,500</td>
<td>(4,400)</td>
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<td>219,500</td>
<td></td>
<td>30,803,300</td>
<td>0.0%</td>
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<tr>
<td>UM-Ann Arbor</td>
<td>803,500</td>
<td>322,773,600</td>
<td>911,000</td>
<td>157,500</td>
<td></td>
<td></td>
<td>911,000</td>
<td></td>
<td>322,931,100</td>
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<tr>
<td>UM-Dearborn</td>
<td>160,200</td>
<td>26,327,200</td>
<td>167,800</td>
<td>7,600</td>
<td></td>
<td></td>
<td>167,800</td>
<td></td>
<td>26,334,800</td>
<td>0.0%</td>
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<tr>
<td>UM-Flint</td>
<td>277,000</td>
<td>23,893,200</td>
<td>348,200</td>
<td>71,200</td>
<td></td>
<td></td>
<td>348,200</td>
<td></td>
<td>23,964,400</td>
<td>0.3%</td>
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<td>Wayne State</td>
<td>417,200</td>
<td>203,413,900</td>
<td>482,200</td>
<td>45,000</td>
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<td></td>
<td>482,200</td>
<td></td>
<td>203,458,900</td>
<td>0.0%</td>
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<tr>
<td>Western</td>
<td>767,900</td>
<td>112,290,100</td>
<td>841,700</td>
<td>73,800</td>
<td></td>
<td></td>
<td>841,700</td>
<td></td>
<td>112,383,900</td>
<td>0.1%</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td>$10,906,700</td>
<td>$1,471,780,900</td>
<td>$11,792,100</td>
<td>$29,700</td>
<td></td>
<td></td>
<td>$11,792,100</td>
<td></td>
<td>$1,473,867,300</td>
<td>0.1%</td>
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</tbody>
</table>
Michigan 15 Public Universities
State Appropriations
2019-20 vs. 2020-21
Labor and Economic Opportunity Budget

Sec. 1052. Coronavirus Relief Fund Grants – NEW Specifies one-time appropriation in part 1 for Coronavirus Relief Fund Grants shall be awarded to the following for eligible expenses:

- Wolverine Human Services ($2.4 million)
- Spectrum Human Services ($1.9 million)
- Orchard's Children Services ($81,900)
- Oakland Family Services ($77,100)
- Ennis Center ($85,800)
- Hospital UV Air Cleaner Grant Program ($2.0 million)
- **Michigan Tech COVID Testing Facility** ($400,000)
- Rapid COVID Testing ($3.0 million)
THANK YOU
IX-C. COVID-19 CONTACT TRACING AND TESTING

Kelly Kamm, Associate Professor KIP, Epidemiologist
MTU Contact Tracing Team

Kelly Kamm, MHS, PhD
COVID-19 case
Susceptible contact

Susceptible

Symptomatic
- Test positive
- Mild, moderate, severe presentation
- Are able to spread disease

Asymptomatic
- Test positive
- Never develop symptoms
- Are able to spread disease

NOT INFECTED
INFECTED
$R_0$: Average number of cases from 1 person

- Daily contact rate
- Number of infectious days
- Depends on biology & behavior

Small household, stay-at-home

Small household, some outside contacts

Large household, stay-at-home
Incubation and infectious periods

- **Infection**
  - **Incubation period**: 2-14 days after exposure
  - **Latent period**
  - **Quarantine**: Keeps presumed infected people away from others to prevent further spread

- **Symptoms appear**
  - **Symptomatic period**: 10 days – 3 weeks or more
  - **Infectious period**
  - **Quarantine**: Keeps presumed infected people away from others to prevent further spread

- **Symptoms resolve**
  - **Non-diseased**
  - **Non-infectious**

- **Isolate**
  - Keeps known infectious people away from others to prevent further spread
Stop the exposed from infecting others

Unknown which contacts are infected

*Treat all contacts as if they are infected*

Get the contacts away from others *as quickly as possible during the latent period* (before the infected individuals are able to spread the disease)

*Contact tracing*: notifying the contacts of exposure to COVID-19 by health department
Containment of COVID-19 using quarantine
MTU Contact Tracing Team

14 student tracers
Management team (2)
Donated staff time

MTU notified by Health Department

Student self-reports

Household reports

Contact tracing initiated

• What is quarantine
• How to quarantine
• Symptom check
• Resource check

Phone call (15-20 min.)

Phone or text (5-10 min.)

• Symptom check
• Resource check

Develop into case

Case interview

Release after 14 days

Phone call (30-45 min.)

Michigan Technological University

10/9/2020

COVID-19 Contact Tracing and Testing
Contact tracing numbers

Number followed on any given day highly variable
• 20-40 new contacts per day

As of 10/2/2020
• 207 contacts on active follow-up list
• 84 contacts have become cases
• 679 individuals identified
  • Not all determined to be close contacts
Challenges

Timing
- Delayed notification → quarantined after they are infectious

Large numbers of household contacts

Incomplete information from cases on close contacts
- Lack of knowledge
- Purposeful withholding
IX-D. UNDERGRADUATE STUDENT GOVERNMENT

Larkin Hooker-Moericke, President
Undergraduate Student Government

Larkin Hooker -Moericke, USG President
October 9th, 2020
Agenda

• USG Events
• Body Member Elections
• USG Initiatives
USG Events

- Meetings with President and Dean of Students
  - Discussed Flex semester-related student concerns
- K Day
  - Distributed voter registration and absentee ballot information and USG stickers
- Fall Body Retreat
  - Team building and goal setting with the body
- Voter Registration Drive
- Elections
Voter Registration Drive

• September 22nd
  • Ann Vollrath registered students
  • Three on-campus locations
  • Engaged with 200 students

• Will host 110th District Candidates
  • October 17th
  • Janet Metsa (D)
  • Rick Sauermilch (G)
  • Town hall style with opportunity for Q&A
Body Member Elections 2020

- Five new members
  - First Year Representatives (3)
  - College of Business
  - College of Sciences and Arts
- Sworn in on September 30th
USG Initiatives

• Cycle Project
  • Provide menstrual hygiene products in campus bathrooms
  • Partnership with Women’s Leadership Council
  • Distributing liners provided by Kimberly Clark

• Dining Hall Sustainability
  • Encourage students to only use what they need
  • Encourage recycling

• Title IX Process and Procedures
  • USG members participating in mock reporting process
Thank you!
IX-E. GRADUATE STUDENT GOVERNMENT

Nathan Ford, President
Advocacy • Enrichment • Community

Graduate Student Government

Nathan Ford
Agenda

- Advocacy
- Enrichment
- Community
- Travel Grant Report
Advocacy

● COVID-19
  ○ CARES Giveback
  ○ COVID Kit Distribution
● International Students Concerns
● HuskyFAN
● Health Insurance
● Cost of Living
● Parental Leave/Childcare Resources
● Departmental Charter Amendments
Advocacy – Looking ahead

- Travel Grant Program
- Cost of Living
- Daniell Heights Contracts
- Sustainability
- Student Activity Fee
Masoud Sarabi, PhD Student in Electrical and Computer Engineering

Email: msarabi@mtu.edu.
Area of focus: Electromagnetics, medical antennas and radar systems
Topic: Application of leaky wave antennas for medical hyperthermia and automotive FMCW mm-wave radar system.

Project Summary: Leaky wave antennas have proven to provide attractive low-cost and robust solutions in RF and microwave industry. These antennas enjoy frequency scanning capability which make them eligible for medical hyperthermia and also automotive antennas (instead of arrays).

Laura Schaerer, PhD Student in Biological Sciences

Email: lgschaer@mtu.edu
Area of focus: Microbiology
Topic: Microbial Communities of Bilge Water, Boat Surfaces and Port Water: A Global Comparison.

Project Summary: Bacteria are ubiquitous in nearly every environment on earth. Microorganisms may live on the hull and in the bilge water of a boat, and very little is known about these bacterial hitchhikers. My research aims to understand how microbes from the port water may impact the microbial community on a boat’s hull and bilge. In the largest boat microbiome study to date, we sampled boats and water in 20 ports on three continents to characterize the hull and bilge microbial communities on boats.

Sushree Dash, PhD Student in Physics

Email: ssdash@mtu.edu.
Area of focus: Magneto-optic materials
Topic: Surface reconstruction and electronic transitions in bismuth-substituted iron garnets.

Project Summary: Earlier Studies show a seven-fold increase in Faraday rotation at the air-sample interface. It occurs at 2-4 nm from the surface. We are diving into the Physics of why this happens? To do so, we look into the XAS and XMCD data that we collected at Argonne National Lab with Circularly Polarized X-ray light source. We also look into the HAADF Fe ion images that we collected from S-TEM at Michigan Tech.
Enrichment

Seminar Series
- Summer Seminar Series - 119 participants
- Teaching in a Virtual Environment - 81 participants
- Career Fair Prep - 54 participants
- Preparing the IDP
- Work and Family (Mental & Physical Health & Work/Life balance)
- Three Minute Thesis Prep with Past Winners
- Grant Writing

3 Minute Thesis
- November 3rd
- Virtual Preliminaries
- In Person Finals
Community

- Kayaking on the Portage
- Mountain Biking the Tech Trails
- Virtual Fall Color Tour
- Halloween Adventure Race
- Orienteering the Outdoors
Travel Grants

Travel Grant Stats (as of 9/18/20)

- Total Applications: 13 (PhD - 8, MS - 5)
  - Presenting: 6 (PhD - 5, MS - 1)
  - Attending: 7 (PhD - 3, MS - 4)

Career Enrichment Grant Stats

- Total Applications: 6 (PhD - 1, MS - 5)
Advocacy • Enrichment • Community

Thank You
IX-F. UNIVERSITY SENATE

Sam Sweitz, President
Proposed Agenda Items

- Revisions to 506.1.1 Department Chair Evaluation
- Revisions to 710.1 Charters
- Proposal to establish the Committee on Promoting and Facilitating Equity and Understanding as a Senate Standing Committee
- Graduate Enrollment Leave Policy during COVID
- GTA Funding Requirements
- Career Fair Calendar Change
Proposed Agenda Items

- Recommendation for Graduate Student Shared Governance in Charters
- Resource Accountability for Proposed New Programs
- Recommendation on Structure for Merit/Cost of Living Raises
- Compensation Levels for Faculty
- Sabbatical Leave for Lecturers
- Voter Engagement Election Day Course Work Requirements
- 17 New Graduate Certificate Programs
- Ad hoc Committee to Review Senate Bylaws
X. INFORMATIONAL ITEMS

A. Analysis of Investments
B. Research & Sponsored Programs
C. Advancement & Alumni Relations
D. Media Coverage
E. Employee Safety Statistics
X-A. ANALYSIS OF INVESTMENTS
### MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2020 THROUGH AUGUST 31, 2020

<table>
<thead>
<tr>
<th></th>
<th>Market Value 6/30/2020</th>
<th>Market Value 8/31/2020</th>
<th>Fiscal-Year Investment Return</th>
<th>Benchmark Return</th>
<th>Benchmark</th>
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<tbody>
<tr>
<td>Money Market Fund</td>
<td>$ 1,987,852</td>
<td>$ 2,028,139</td>
<td>0.02%</td>
<td>0.02%</td>
<td>ICE BofA Merrill Lynch US T-Bill Index</td>
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<tr>
<td>Equity Funds:</td>
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<tr>
<td>Core Equity Fund</td>
<td>9,923,270</td>
<td>10,967,823</td>
<td>12.68%</td>
<td>13.23%</td>
<td>S&amp;P 500</td>
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<tr>
<td>Commonfund Strategic Solutions Equity Fund</td>
<td>5,967,304</td>
<td>6,463,630</td>
<td>10.78%</td>
<td>13.23%</td>
<td>S&amp;P 500</td>
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<tr>
<td>Total Equity Funds</td>
<td>15,890,574</td>
<td>17,431,453</td>
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<td>Fixed Income Funds:</td>
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<tr>
<td>Intermediate Term Fund</td>
<td>8,254,386</td>
<td>8,111,455</td>
<td>0.39%</td>
<td>0.08%</td>
<td>ICE BofA Merrill Lynch 1-3 Yr Treasury</td>
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<tr>
<td>Commonfund Contingent Asset Portfolio</td>
<td>7,650,773</td>
<td>8,116,804</td>
<td>0.33%</td>
<td>0.08%</td>
<td>ICE BofA Merrill Lynch 1-3 Yr Treasury</td>
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<tr>
<td>High Quality Bond Fund</td>
<td>5,974,880</td>
<td>6,098,965</td>
<td>1.49%</td>
<td>0.67%</td>
<td>Bloomberg Barclays US Aggregate Bond Index</td>
</tr>
<tr>
<td>Total Fixed Income Funds</td>
<td>21,880,039</td>
<td>22,327,224</td>
<td></td>
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<tr>
<td>Total</td>
<td>$ 39,758,465</td>
<td>$ 41,786,816</td>
<td>5.18%</td>
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</tr>
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</table>

### Current Asset Allocation
- Cash Equivalents: 5%
- Fixed Income - Short Duration: 39%
- Equities: 42%
- Fixed Income - Long Duration: 14%

### Target Asset Allocation
- Cash Equivalents: 5%
- Fixed Income - Short Duration: 40%
- Equities: 40%
- Fixed Income - Long Duration: 15%
X-B. RESEARCH AND SPONSORED PROGRAMS
Formal Session of the Board of Trustees - Agenda

Sponsored Awards
Fiscal Year 2020
4th Quarter
Ended June 30, 2020
TOTAL: $71,814,093

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)
FYTD 2019: 77
FYTD 2020: 45

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '20 as of 6/30</th>
<th>FY '19 as of 6/30</th>
<th>FY '20 as of 6/30</th>
<th>FY '19 as of 6/30</th>
<th>FY '20 as of 6/30</th>
<th>FY '19 as of 6/30</th>
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<td>70</td>
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<td>64</td>
<td>35</td>
<td>47</td>
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<td>1,359,711</td>
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<td>127</td>
<td>97</td>
<td>112</td>
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<td>3</td>
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<td>88,732</td>
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<td>42</td>
<td>32</td>
<td>22</td>
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<td>66</td>
<td>19</td>
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<td>2,829,867</td>
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<td>48</td>
<td>56</td>
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<td>12</td>
<td>19</td>
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<td>88</td>
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<td>886</td>
<td>982</td>
<td>609</td>
<td>656</td>
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<td>275</td>
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<tr>
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<td>17</td>
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<td>62,385</td>
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<tr>
<td>Subtotal</td>
<td>886</td>
<td>982</td>
<td>609</td>
<td>656</td>
<td>71,814,093</td>
<td>63,846,244</td>
</tr>
</tbody>
</table>

**Grand Total**                 | $71,814,093       | $63,846,244       | $7,967,849        |


**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.

***US Department of Education includes $4,605,779 of CARES ACT funding received in Q4
Formal Session of the Board of Trustees - Agenda

Vice President for Research
Fiscal Year 2020
4th Quarter
Ended June 30, 2020

TOTAL: $71,814,093

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

Submitting Proposals since 07/01/2019 66.7%
On Active Projects as of 6/30/2020 63.2%

<table>
<thead>
<tr>
<th>SPO &amp; OIC Metrics1</th>
<th>Administration</th>
<th>College of Business &amp; Economics</th>
<th>College of Computing</th>
<th>College of Engineering</th>
<th>College of Forest Resources &amp; Env Science</th>
<th>College of Forest 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 Technology</th>
<th>Totals Fiscal Comparison</th>
<th>Percent Change</th>
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<td>20</td>
<td>55</td>
<td>83</td>
<td>4</td>
<td>N/A</td>
<td>886</td>
<td>982</td>
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<td>91</td>
<td>21</td>
<td>69</td>
<td>76</td>
<td>42</td>
<td></td>
<td>857</td>
<td>948</td>
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<td>-</td>
<td>5,444,330</td>
<td>5,084,495</td>
<td>-</td>
<td>-</td>
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<td>6,763,847</td>
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<td>1,378,710</td>
<td>903,390</td>
<td>30,000</td>
<td>4,581,971</td>
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<td>14,225,120</td>
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<td>1,187,810</td>
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<td>79,946</td>
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<td>3,152,856</td>
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<td>7,350</td>
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<td>3,700</td>
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<td>906</td>
<td>-</td>
<td>-</td>
<td>20,221</td>
<td>62,385</td>
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<td>Industry</td>
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<td>-</td>
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<td>710,578</td>
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<td>315,946</td>
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<td>-</td>
<td>-</td>
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<td>8,743,736</td>
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<td>-</td>
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<td>414,678</td>
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<td>10,665,677</td>
<td>1,247,369</td>
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<td>10,723,730</td>
<td>280,224</td>
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<td>71,814,093</td>
<td>63,846,244</td>
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<tr>
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<td>3,320,485</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>268,254</td>
<td>63,846,244</td>
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<tr>
<td>Percent Change</td>
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<td>-15.2%</td>
<td>31.5%</td>
<td>49.9%</td>
<td>193.2%</td>
<td>10.5%</td>
<td>-5.6%</td>
<td>-64.7%</td>
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<td>Disclosures Received2</td>
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<td>72.68%</td>
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<td>35</td>
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<td>1</td>
<td>2</td>
<td>10</td>
<td>23</td>
<td>2</td>
<td>-</td>
<td>98</td>
<td>97</td>
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<td>20</td>
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<td>17</td>
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<td>Gross Royalties2</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>221,391</td>
<td>334,790</td>
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</tbody>
</table>

* Federal award dollars include $4,605,779 received from US Department of Education CARES ACT funding
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)
## Formal Session of the Board of Trustees - Agenda

**Sponsored Awards & Gifts**

- **COMBINED Fiscal Year 2020 4th Quarter**
- **Ended June 30, 2020**
- **TOTAL: $12,948,437**

### Sponsored Awards & Gifts

<table>
<thead>
<tr>
<th>Division</th>
<th>Administration</th>
<th>College of Business &amp; Economics</th>
<th>College of Computing</th>
<th>College of Engineering</th>
<th>College of Forest Resources &amp; Env Science</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 Technology</th>
<th>Totals</th>
<th>Fiscal Comparison</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>217,500</td>
<td>29,400</td>
<td>199,847</td>
<td>1,797,902</td>
<td>816</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>500</td>
<td>35,083</td>
<td>64,500</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,000</td>
<td>262,742</td>
<td>817,477</td>
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<td>11,223</td>
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<td>547,755</td>
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<td>-</td>
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<td>9,165</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>50,000</td>
<td>260,410</td>
<td>875,765</td>
<td>-70.3%</td>
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<tr>
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<td>-</td>
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<td>-</td>
<td>1,000</td>
<td>378,016</td>
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<td>14,630</td>
<td>1,314,345</td>
<td>1,283,738</td>
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<td><strong>Total $ by Division</strong></td>
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<td><strong>35,400</strong></td>
<td><strong>302,847</strong></td>
<td><strong>4,853,287</strong></td>
<td><strong>759,794</strong></td>
<td><strong>325,963</strong></td>
<td><strong>327,631</strong></td>
<td><strong>2,530,557</strong></td>
<td><strong>2,250,401</strong></td>
<td><strong>255,468</strong></td>
<td><strong>N/A</strong></td>
<td><strong>12,948,437</strong></td>
<td><strong>17,178,564</strong></td>
<td>-24.6%</td>
</tr>
</tbody>
</table>

| Fiscal Comparison             | 1,179,675      | 35,500                          | N/A                  | 7,184,404               | 1,389,982                                | 867,933                   | 95,350                      | 2,570,062               | 3,529,158                        | 250,150             | 76,350              | 17,178,564           | 12,948,437         | -24.6%           |

| Percent Change               | 10.8%          | -0.3%                           | 0.0%                 | -32.4%                  | -45.3%                                   | -62.4%                    | 243.6%                      | -1.5%                   | -36.2%                           | 2.1%                 | N/A                 | -24.6%              |
Michigan Technological University

Total PRELIMINARY Research Expenditures by College/School/Division

Fiscal Year 2020 & 2019

As of June 30, 2020 Period 14 and June 30, 2019 Period 14

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>Preliminary FY2020</th>
<th>Preliminary FY2019</th>
<th>Variance</th>
<th>%</th>
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<td>4,765,280</td>
<td>(2,418,650)</td>
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<td>-0.5%</td>
</tr>
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<td>2,925,595</td>
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<td>2,925,595</td>
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</tr>
<tr>
<td>College of Engineering</td>
<td>29,761,464</td>
<td>31,461,566</td>
<td>(1,700,102)</td>
<td>-5.4%</td>
</tr>
<tr>
<td>College of Forest Resources &amp; Environmental Science</td>
<td>5,070,043</td>
<td>5,417,651</td>
<td>(347,608)</td>
<td>-6.4%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>14,718,484</td>
<td>16,111,313</td>
<td>(1,392,829)</td>
<td>-8.6%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>1,016,771</td>
<td>847,214</td>
<td>169,557</td>
<td>20.0%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>515,516</td>
<td>649,719</td>
<td>(134,203)</td>
<td>-20.7%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>9,543,097</td>
<td>9,103,014</td>
<td>440,083</td>
<td>4.8%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>10,478,063</td>
<td>9,488,525</td>
<td>989,538</td>
<td>10.4%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>N/A</td>
<td>1,039,148</td>
<td>(1,039,148)</td>
<td>-100.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>77,927,423</strong></td>
<td><strong>80,443,226</strong></td>
<td><strong>(2,515,803)</strong></td>
<td><strong>-3.1%</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.
X-C. ADVANCEMENT & ALUMNI RELATIONS
Advancement and Alumni Engagement
Michigan Tech Board of Trustees Report
October 9, 2020

Advancement and Alumni Engagement

2020-2021 Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Set a goal to grow the endowment by ____ percent over ____ number of years
- Engage alumni, principal and major gift donors and corporate/foundation partners in a virtual environment
- Identify and cultivate principal gift donors for the Institute for Policy Ethics and Culture
- Strengthen our partnership with the Deans and academic units as Advancement further refines our fundraising initiatives

Recent Activity

- Fundraising total of $7.1 million as of 9/15/2020
- Major and Principal Giving frontline fundraisers are back on the road to make donor visits within driving distance. Travel is based on the donor’s willingness to meet and is managed with the utmost care to maintain the safety of both the director and the donors. Active engagement continues virtually with gift conversations continuing and with gift closings in 2020 and 2021 anticipated.
- Focusing on changing our business model to reach our goals for FY21 and better position ourselves to plan for the next three years
- Continuing to conduct research to inform business intelligence efforts and the donor pipeline development
- Providing education about the benefits of giving under the CARES Act
- Supported the Weekly COVID-19 Town Hall series for community and campus September - December
- Hosted the first ever virtual alumni reunion with other virtual events to be held including a virtual book club.
- Developed Advancement Plans for each of the colleges and athletics
- Hired a new director of advancement for the College of Sciences and Arts
- Finalized a new naming policy
- Awarded $225,000 from the Great Lakes Sports Commission (GLSC) to initiate the first phase of the Tech Trail lodge project
Advancement and Alumni Engagement Recent Activity Continued

- Leveraged a major outright gift to support Athletics by launching a fundraising challenge campaign for the Champions Pavilion at Kearly Stadium
- Developing a mid-level donor outreach program comprised of email and personal outreach
- Received a Council for Advancement and Support of Education (CASE) award for Overall Improvement in the category Public Research/Doctoral Institutions with Endowments Under $215 Million
- The September issue open rate of the bi-monthly alumni newsletter was 34% for the over 60 segment with a click through rate of 44.6%
X-D. MEDIA COVERAGE
Between July 17 and September 20, 2020, a total of 975 online articles mentioned Michigan Technological University:

<table>
<thead>
<tr>
<th>Overview</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles</td>
<td>975</td>
</tr>
<tr>
<td>Social shares</td>
<td>~ 215.2K</td>
</tr>
<tr>
<td>Average engagement</td>
<td>220</td>
</tr>
<tr>
<td>Journalist shares</td>
<td>756</td>
</tr>
<tr>
<td>Journalist reach</td>
<td>~ 8.24M</td>
</tr>
<tr>
<td>Average unique visitors per month (UVM)</td>
<td>~ 4.18M</td>
</tr>
<tr>
<td>Total UVM</td>
<td>~ 4.08B</td>
</tr>
</tbody>
</table>

News Media Report, MTU Board of Trustees Regular Meeting, Oct. 9, 2020 - Articles
Those 975 articles were shared on social media more than 215,200 times, for an average engagement of 220 shares, reactions or comments per article:

Journalists shared the articles on Twitter 756 times, resulting in a reach of nearly 8.24 million people:
News Highlights:

General and Research News (non-COVID)
Michigan Tech was highlighted in an Economist article on advanced manufacturing in the Midwest:

CNBC listed Michigan Tech as one of the top 25 public universities that pay off the most:

Guy Meadows (GLRC) served as an expert for the Chicago Tribune’s “quick primer on Great Lakes water levels”:

In August, the MTU Graduate Student Government's promise to match up to $10,000 in donations from other students to the Husky Emergency Assistance Fund, was the Michigan story in USA Today's News from around our 50 states:

Amy Marcarelli (BioSci), was quoted in the story "The life that springs from dead leaves in streams," in Knowable Magazine:

Sarah Hoy (CFRES), was quoted in the story "What Wolves Can Teach Us About COVID and the Economy," in the Wall Street Journal:
Formal Session of the Board of Trustees - Agenda


William Rose (GMES) was quoted in the story "40 Years Ago: Lessons From the Eruption of Mount St. Helens," in Discover Magazine.

Associated Press environmental writer John Flesher's story on the Isle Royale Winter Study was picked up by numerous media outlets across the country, including US News and World Report:

A news story on a UP firefighter who took 1,980 steps (equal to walking 110 stories of the World Trade Center in New York) at the MacInnes Ice Arena on Sept. 11, 2020, went viral:

**MTU Flex and COVID-19-related News**

Michigan Tech’s COVID-19 Testing Lab, was featured in the story "How Michigan Tech brought COVID testing to the Upper Peninsula," on Michigan Radio:

The Michigan Tech COVID-19 Testing Lab was mentioned and Caryn Heldt (ChE) quoted in a Michigan Radio news story on Michigan COVID-19 labs:

Michigan Tech's COVID-19 testing lab was featured in the story "MTU COVID-19 lab prepares to test student population" on WJMN TV3:

A student-built mathematical model of COVID-19 spread on college campuses was featured on Michigan Radio's Stateside program on Sept. 16. The model was built during the spring semester in a course taught by Cécile Piret (Math):

Michael Meyer, director of the William G. Jackson Center for Teaching and Learning, was quoted in the story "Mock classroom helping test COVID-19 practices for returning to class at MTU," on WLUC TV6:
The work of David Holden and John Schneiderhan of the Van Pelt and Opie Library in developing face shields for Michigan Tech faculty was the topic of the story "MTU researchers design new mask for faculty," on WLUC TV6:

- [https://www.uppermichiganssource.com/2020/07/24/mtu-researchers-design-new-mask-for-faculty](https://www.uppermichiganssource.com/2020/07/24/mtu-researchers-design-new-mask-for-faculty)
X-E. EMPLOYEE SAFETY STATISTICS
**Michigan Technological University**

**EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE**

Jan 1 - Aug 31, 2019/2020

<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>Injury Only w/Medical - No Lost Time</strong></td>
<td>2019</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td><strong>Lost Time Cases</strong></td>
<td>2019</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td><strong>Restricted Work Cases</strong></td>
<td>2019</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>Occupational Safety and Health Administration (OSHA)</strong></td>
<td>2019</td>
<td>9</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td><strong>Recordable Injuries (Total of above)</strong></td>
<td>2020</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td><strong>Number of Recordable Injuries</strong></td>
<td>2019</td>
<td>61</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>16</td>
<td>0</td>
<td>0</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>27</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>64</td>
<td>0</td>
<td>1</td>
<td>92</td>
</tr>
<tr>
<td><strong>Number of Days</strong></td>
<td>2019</td>
<td>320</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>155</td>
<td>0</td>
<td>0</td>
<td>505</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>163</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>163</td>
</tr>
<tr>
<td><strong>Total Work Hours</strong></td>
<td>2019</td>
<td>183,218</td>
<td>486,817</td>
<td>92,543</td>
<td>12,975</td>
<td>762,033</td>
<td>38,839</td>
<td>145,299</td>
<td>1,721,724</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>138,753</td>
<td>475,515</td>
<td>85,582</td>
<td>11,858</td>
<td>760,362</td>
<td>31,537</td>
<td>122,157</td>
<td>1,625,764</td>
</tr>
</tbody>
</table>

**Hours Worked**

| Percentage of Work Hours              | 2019       | 10.6%  | 28.3%  | 5.4%       | 0.8%   | 44.3%       | 2.3%     | 8.4%  | 100.0% |
|                                       | 2020       | 8.5%   | 29.2%  | 5.3%       | 0.7%   | 46.8%       | 1.9%     | 7.5%  | 100.0% |

**Rates**

| Lost Time Case Rate 1                 | 2019       | 6.5    | 0.4    | 0.0        | 0.0    | 0.3         | 0.0       | 0.0   | 0.9    |
|                                       | 2020       | 4.3    | 0.0    | 0.0        | 0.0    | 0.5         | 0.0       | 1.6   | 0.7    |
| Frequency Rate 2 (Recordable)         | 2019       | 9.8    | 0.8    | 0.0        | 0.0    | 0.5         | 0.0       | 1.4   | 1.6    |
|                                       | 2020       | 11.5   | 0.0    | 0.0        | 0.0    | 0.8         | 0.0       | 1.6   | 1.5    |

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.
XI. OTHER BUSINESS
XII. DATE OF NEXT FORMAL MEETING: DECEMBER 18, 2020
XIII. ADJOURN