I. Call to Order
Jeffrey Littmann, Chair

II. Roll Call
Sarah Schulte, Secretary

III. Confirm Agenda
Jeffrey Littmann, Chair

IV. Opening Remarks
   A. Opening Remarks of the Board Chair
      Jeffrey Littmann, Chair
   B. Opening Remarks of the University President
      Richard Koubek, President

V. Public Comment Period

VI. Committee Reports
   A. Academic Affairs Committee
      John Bacon, Committee Chair
   B. Audit and Finance Committee
      Jeff Littmann, Committee Chair
   C. Leadership Committee
      Steve Tomaszewski, Committee Chair

VII. Consent Agenda
   A. Approval of Minutes
B. Resignations, Retirements, and 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>Alfred Giusti</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Maintenance Mechanic</td>
<td>02/08/2010</td>
<td>11/03/2021</td>
</tr>
<tr>
<td>Karen Kangas</td>
<td>Staff</td>
<td>College of Sciences &amp; Arts</td>
<td>Administrative Aide 7</td>
<td>09/26/1988</td>
<td>10/02/2021</td>
</tr>
<tr>
<td>Nancy Taglione</td>
<td>Staff</td>
<td>Center for Student Mental Health and Wellbeing</td>
<td>Clinical Counselor</td>
<td>09/16/2002</td>
<td>11/05/2021</td>
</tr>
<tr>
<td>Andrew Black</td>
<td>Staff</td>
<td>Keweenaw Research Center</td>
<td>Research Engineer I</td>
<td>04/03/2017</td>
<td>10/30/2021</td>
</tr>
<tr>
<td>Brandon Charbonneau</td>
<td>Staff</td>
<td>Wadsworth Hall Food Service</td>
<td>Food Service Helper</td>
<td>07/12/2021</td>
<td>10/02/2021</td>
</tr>
<tr>
<td>Seth Diegel</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Assistant Research Engineer-IT Support</td>
<td>04/05/2021</td>
<td>09/18/2021</td>
</tr>
<tr>
<td>Melissa Foss</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Office Assistant 6</td>
<td>04/09/2018</td>
<td>10/02/2021</td>
</tr>
<tr>
<td>John Gherna</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Equipment Operator I</td>
<td>09/20/2021</td>
<td>10/02/2021</td>
</tr>
<tr>
<td>Andrew Grohowski</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Digital Marketing Manager</td>
<td>01/15/2018</td>
<td>11/12/2021</td>
</tr>
<tr>
<td>Brian Hietala</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Equipment Operator I</td>
<td>02/25/2015</td>
<td>10/29/2021</td>
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<tr>
<td>Shannon Houle</td>
<td>Staff</td>
<td>Jackson Center for Teaching &amp; Learning</td>
<td>Office Assistant 5</td>
<td>08/14/2017</td>
<td>09/04/2021</td>
</tr>
<tr>
<td>Brad Isaacson</td>
<td>Staff</td>
<td>Sports &amp; Recreation Operations</td>
<td>Event Operations Manager/Athletic Equipment Supervisor</td>
<td>07/02/2018</td>
<td>10/17/2021</td>
</tr>
<tr>
<td>Hayley Karinen</td>
<td>Staff</td>
<td>Sponsored Programs Accounting</td>
<td>Office Assistant 6</td>
<td>09/07/2021</td>
<td>10/29/2021</td>
</tr>
<tr>
<td>Joseph Licavoli</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Research Engineer/Scientist</td>
<td>08/05/2019</td>
<td>09/07/2021</td>
</tr>
<tr>
<td>Andrew Manty</td>
<td>Staff</td>
<td>Center Technology &amp; Training</td>
<td>Research Engineer</td>
<td>07/10/2017</td>
<td>10/22/2021</td>
</tr>
<tr>
<td>Andrea McMahon</td>
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<td>Wadsworth Hall Food Service</td>
<td>Food Service Helper</td>
<td>08/12/2019</td>
<td>11/02/2021</td>
</tr>
<tr>
<td>Allison Mills</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Director of Research News</td>
<td>11/02/2014</td>
<td>10/02/2021</td>
</tr>
<tr>
<td>Joel Mishica</td>
<td>Staff</td>
<td>Transportation Services</td>
<td>Parking Enforcement Agent</td>
<td>01/29/2018</td>
<td>10/16/2021</td>
</tr>
<tr>
<td>Paul Myers</td>
<td>Staff</td>
<td>Wadsworth Hall Food Service</td>
<td>Cooks Helper</td>
<td>03/28/2012</td>
<td>11/13/2021</td>
</tr>
<tr>
<td>Alicia O'Grady</td>
<td>Staff</td>
<td>Alumni Engagement</td>
<td>Assistant Director for Alumni &amp; Donor Engagement</td>
<td>08/06/2018</td>
<td>10/16/2021</td>
</tr>
<tr>
<td>Lauren Peck</td>
<td>Staff</td>
<td>Wadsworth Hall Food Service</td>
<td>Food Service Helper</td>
<td>08/12/2019</td>
<td>10/16/2021</td>
</tr>
<tr>
<td>Sarah Perreault</td>
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<td>Food Service Helper</td>
<td>08/12/2019</td>
<td>10/16/2021</td>
</tr>
<tr>
<td>Annamarie Rutledge</td>
<td>Staff</td>
<td>College Forest Resources &amp; Environmental Science</td>
<td>Research Scientist I</td>
<td>10/19/2020</td>
<td>10/16/2021</td>
</tr>
<tr>
<td>Joanna Wesner</td>
<td>Staff</td>
<td>Financial Services &amp; Operations</td>
<td>Administrative Aide 7</td>
<td>12/17/2018</td>
<td>11/02/2021</td>
</tr>
<tr>
<td>Ismael Xique</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Research Engineer/Scientist I</td>
<td>05/05/2015</td>
<td>09/18/2021</td>
</tr>
</tbody>
</table>

M:\hro\Administration\On-Off and Off Payroll Reports\BOT Off Payroll Reports\FY22\Off-Payroll_070121_900421.doc
Megoke
2021
July 8,
### Fundraising Productivity Report

**Michigan Technological University**  
**Michigan Tech Fund**  
**Fundraising Productivity Report**  
July 1, 2021 through October 31, 2021  
Compared to Prior Fiscal Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY22 YTD Total</th>
<th>Adjustment</th>
<th>FY Goal (in millions)</th>
<th>% of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Giving</td>
<td>4,923,934</td>
<td>20.75</td>
<td>24%</td>
<td></td>
</tr>
<tr>
<td>Corporate Giving</td>
<td>581,593</td>
<td>2</td>
<td>29%</td>
<td></td>
</tr>
<tr>
<td>Foundation &amp; Other Org Giving</td>
<td>193,730</td>
<td>5</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>5,615,173</td>
<td>13</td>
<td>43%</td>
<td></td>
</tr>
</tbody>
</table>

**Fundraising Total**  
FY22 Total: 11,314,430  
% of Goal: 28%

<table>
<thead>
<tr>
<th>Source</th>
<th>FY21 YTD Total</th>
<th>Adjustment</th>
<th>FY Goal (in millions)</th>
<th>% of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Giving</td>
<td>5,405,421</td>
<td>2,000,000</td>
<td>18.25</td>
<td>41%</td>
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<tr>
<td>Corporate Giving</td>
<td>842,003</td>
<td>1</td>
<td>84%</td>
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<tr>
<td>Foundation &amp; Other Org Giving</td>
<td>1,141,540</td>
<td>142,359</td>
<td>128%</td>
<td></td>
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<tr>
<td>Corporate Sponsored Research</td>
<td>4,253,298</td>
<td>11</td>
<td>39%</td>
<td></td>
</tr>
</tbody>
</table>

**Fundraising Total**  
FY21 Total: 11,642,262  
% of Goal: 44%

**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. Reports

A. University Research and Sponsored Programs Report
   Dave Reed, Vice President for Research
Sponsored Program Summary
FY21 and 1st Quarter FY22 Activities

David Reed
Vice President for Research
December, 2021
Outline

• FY21 Results
  • Sponsored Awards
  • Research Expenditures
  • Intellectual Property/Commercialization
  • Corporate Sponsorship

• 1st Quarter FY22
  • Sponsored Awards
  • Research Expenditures
Sponsored Awards FY21
Sponsored Awards FY21

Pre-Proposals Submitted
(excluded from Proposals Submitted figures below)
FYTD 2020: 45
FYTD 2021: 39

TOTAL: $67,244,308
## Sponsored Awards FY21

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposals Submitted FY '21</th>
<th>Awards Received FY '21</th>
<th>Awards Received ($) FY '21</th>
<th>Variance FY '21</th>
<th>Variance FY '20</th>
<th>Variance $</th>
<th>Variance %</th>
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<tr>
<td>as of 06/30</td>
<td>as of 06/30</td>
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<td>as of 06/30</td>
<td>as of 06/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASA</td>
<td>66</td>
<td>85</td>
<td>57</td>
<td>70</td>
<td>3,758,802</td>
<td>6,882,291</td>
<td>-3,123,489</td>
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<tr>
<td>National Science Foundation</td>
<td>149</td>
<td>133</td>
<td>51</td>
<td>52</td>
<td>9,276,246</td>
<td>8,612,051</td>
<td>664,195</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>50</td>
<td>50</td>
<td>60</td>
<td>35</td>
<td>2,536,208</td>
<td>2,305,311</td>
<td>230,897</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>109</td>
<td>113</td>
<td>107</td>
<td>97</td>
<td>18,203,270</td>
<td>14,922,599</td>
<td>3,280,671</td>
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<tr>
<td>US Department of Education</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>7,670</td>
<td>58,614</td>
<td>-50,944</td>
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<tr>
<td>US Department of Energy</td>
<td>55</td>
<td>53</td>
<td>40</td>
<td>32</td>
<td>9,557,024</td>
<td>6,796,614</td>
<td>2,760,410</td>
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<tr>
<td>US Department of HHS</td>
<td>70</td>
<td>54</td>
<td>12</td>
<td>19</td>
<td>2,343,332</td>
<td>5,868,781</td>
<td>-3,525,449</td>
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<tr>
<td>US Department of Transportation</td>
<td>11</td>
<td>14</td>
<td>8</td>
<td>13</td>
<td>977,688</td>
<td>2,542,750</td>
<td>-1,565,062</td>
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<tr>
<td>Other Federal Agencies*</td>
<td>68</td>
<td>54</td>
<td>42</td>
<td>48</td>
<td>3,822,011</td>
<td>3,321,443</td>
<td>500,568</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>580</td>
<td>559</td>
<td>378</td>
<td>369</td>
<td>50,482,251</td>
<td>51,310,454</td>
<td>(828,203)</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>51</td>
<td>40</td>
<td>38</td>
<td>29</td>
<td>5,058,255</td>
<td>3,761,931</td>
<td>1,296,324</td>
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<tr>
<td>Industrial</td>
<td>172</td>
<td>175</td>
<td>154</td>
<td>150</td>
<td>5,496,106</td>
<td>5,933,873</td>
<td>-437,767</td>
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<tr>
<td>Foreign</td>
<td>23</td>
<td>22</td>
<td>18</td>
<td>12</td>
<td>2,217,088</td>
<td>1,501,603</td>
<td>715,485</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>90</td>
<td>88</td>
<td>45</td>
<td>47</td>
<td>1,255,330</td>
<td>1,110,667</td>
<td>144,663</td>
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<tr>
<td>Subtotal</td>
<td>916</td>
<td>884</td>
<td>633</td>
<td>607</td>
<td>64,509,030</td>
<td>63,618,528</td>
<td>890,502</td>
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<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>211</td>
<td>230</td>
<td>2,722,474</td>
<td>3,566,565</td>
<td>-844,091</td>
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<tr>
<td>Crowdfunding</td>
<td>N/A</td>
<td>N/A</td>
<td>10</td>
<td>15</td>
<td>12,804</td>
<td>20,224</td>
<td>-7,417</td>
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<tr>
<td>Grand Total</td>
<td>916</td>
<td>884</td>
<td>854</td>
<td>852</td>
<td>67,244,308</td>
<td>67,205,314</td>
<td>$38,994</td>
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</tbody>
</table>

Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II (Covid Relief) or FY20 $4,605,779 CARES Act funding from US Department of Education


**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.
### Research Expenditures FY21

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>Preliminary FY2021</th>
<th>Preliminary FY2020</th>
<th>Variance</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>820,733</td>
<td>2,346,630</td>
<td>(1,525,897)</td>
<td>-65.0%</td>
</tr>
<tr>
<td>College of Business</td>
<td>1,522,209</td>
<td>1,551,760</td>
<td>(29,551)</td>
<td>-1.9%</td>
</tr>
<tr>
<td>College of Computing</td>
<td>4,021,921</td>
<td>2,925,595</td>
<td>1,096,326</td>
<td>37.5%</td>
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<tr>
<td>College of Engineering</td>
<td>31,614,848</td>
<td>29,761,464</td>
<td>1,853,384</td>
<td>6.2%</td>
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<tr>
<td>College of Forest Resources &amp; Environmental Science</td>
<td>6,084,790</td>
<td>5,070,043</td>
<td>1,014,747</td>
<td>20.0%</td>
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<tr>
<td>College of Science &amp; Arts</td>
<td>14,267,247</td>
<td>14,718,484</td>
<td>(451,237)</td>
<td>-3.1%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>1,480,740</td>
<td>1,016,771</td>
<td>463,969</td>
<td>45.6%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>597,330</td>
<td>515,516</td>
<td>81,814</td>
<td>15.9%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>10,090,175</td>
<td>9,543,097</td>
<td>547,078</td>
<td>5.7%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>11,215,400</td>
<td>10,478,063</td>
<td>737,337</td>
<td>7.0%</td>
</tr>
<tr>
<td>School of Technology</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>81,715,393</td>
<td>77,927,423</td>
<td>3,787,970</td>
<td>4.9%</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.

External Expenditures + 12.1 %
Internal Expenditures - 4.7 %
Research Expenditures FY21
# Intellectual Property FY21

<table>
<thead>
<tr>
<th></th>
<th>FY21</th>
<th>FY22</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received</td>
<td>23</td>
<td>26</td>
<td>- 11.3 %</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>84</td>
<td>98</td>
<td>- 14.3 %</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>26</td>
<td>26</td>
<td>0.0 %</td>
</tr>
<tr>
<td>License Agreements</td>
<td>13</td>
<td>17</td>
<td>- 23.6 %</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>$121,965</td>
<td>$221,391</td>
<td>- 44.9 %</td>
</tr>
</tbody>
</table>
Corporate Sponsorship FY21

Sponsored Awards
- Industry -
COMBINED
Fiscal Year 2021
4th Quarter
Ended June 30, 2021
TOTAL: $16,680,580

- IT Services: 178,478
- Industrial Engineering: 533,058
- Health: 191,589
- Environmental: 95,743
- Energy: 2,648,137
- Mining & Metals: 565,730
- Other Technology: 405,919
- Technology: 444,865
- Automotive: 3,319,210
- Business & Economics: 17,500
- Chemical: 371,068
- Civil: 600,162
- Consumer Products: 1,015,658
- Defense & Space: 6,293,463

Michigan Technological University
# Sponsored Awards 1st Qtr FY22

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposals Submitted FY '22 as of 9/30</th>
<th>Proposals Submitted FY '21 as of 9/30</th>
<th>Awards Received FY '22 as of 9/30</th>
<th>Awards Received FY '21 as of 9/30</th>
<th>Awards Received ($) FY '22 as of 9/30</th>
<th>Awards Received ($) FY '21 as of 9/30</th>
<th>Variance ($)</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>16</td>
<td>17</td>
<td>10</td>
<td>13</td>
<td>2,700,962</td>
<td>684,908</td>
<td>2,016,054</td>
<td>294.4%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>41</td>
<td>26</td>
<td>23</td>
<td>20</td>
<td>8,033,360</td>
<td>4,995,720</td>
<td>3,037,640</td>
<td>60.8%</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>31</td>
<td>10</td>
<td>16</td>
<td>31</td>
<td>1,053,037</td>
<td>1,741,702</td>
<td>-688,665</td>
<td>-39.5%</td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>17</td>
<td>31</td>
<td>29</td>
<td>24</td>
<td>7,175,561</td>
<td>7,037,279</td>
<td>138,282</td>
<td>2.0%</td>
</tr>
<tr>
<td>US Department of Education</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>102,145</td>
<td>-</td>
<td>102,145</td>
<td>N/A</td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>9</td>
<td>13</td>
<td>10</td>
<td>15</td>
<td>2,231,969</td>
<td>1,415,458</td>
<td>816,511</td>
<td>57.7%</td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>4</td>
<td>386,583</td>
<td>955,319</td>
<td>-568,736</td>
<td>-59.5%</td>
</tr>
<tr>
<td>US Department of Transportation</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>885,066</td>
<td>788,126</td>
<td>96,940</td>
<td>12.3%</td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td>17</td>
<td>12</td>
<td>17</td>
<td>11</td>
<td>1,302,529</td>
<td>1,281,762</td>
<td>20,767</td>
<td>1.6%</td>
</tr>
<tr>
<td>Federal Agency Total</td>
<td>139</td>
<td>120</td>
<td>115</td>
<td>121</td>
<td>23,871,212</td>
<td>18,900,274</td>
<td>4,970,938</td>
<td>26.3%</td>
</tr>
<tr>
<td>State of Michigan</td>
<td>17</td>
<td>10</td>
<td>7</td>
<td>8</td>
<td>890,540</td>
<td>566,820</td>
<td>323,820</td>
<td>57.1%</td>
</tr>
<tr>
<td>Industrial</td>
<td>38</td>
<td>48</td>
<td>38</td>
<td>27</td>
<td>1,138,907</td>
<td>837,713</td>
<td>301,194</td>
<td>36.0%</td>
</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>5</td>
<td>25,291</td>
<td>546,448</td>
<td>-521,157</td>
<td>-95.4%</td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>22</td>
<td>22</td>
<td>11</td>
<td>9</td>
<td>208,008</td>
<td>153,976</td>
<td>54,032</td>
<td>35.1%</td>
</tr>
<tr>
<td>Subtotal</td>
<td>218</td>
<td>204</td>
<td>173</td>
<td>170</td>
<td>26,134,058</td>
<td>21,005,231</td>
<td>5,128,827</td>
<td>24.4%</td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>51</td>
<td>39</td>
<td>635,045</td>
<td>450,021</td>
<td>185,024</td>
<td>41.1%</td>
</tr>
<tr>
<td>Crowdfunding</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>6,776</td>
<td>-6,776</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>218</td>
<td>204</td>
<td>224</td>
<td>213</td>
<td>26,769,103</td>
<td>21,462,028</td>
<td>5,307,075</td>
<td>24.7%</td>
</tr>
</tbody>
</table>

Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II (COVID Relief) from US Department of Education


**Gifts represent non-contractual funding from corporations, foundations, associations and societies in support of academic programs, scholarships/fellowships, student design & enterprise, research, youth programs and special programs.
# Research Expenditures 1\textsuperscript{st} Qtr FY22

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2022</th>
<th>FY2021</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,327,481</td>
<td>1,910,845</td>
<td>416,636</td>
<td>21.8%</td>
</tr>
<tr>
<td>Advanced Power Systems Research Center (APSRC) / MEEM</td>
<td>216,678</td>
<td>N/A</td>
<td>216,678</td>
<td>N/A</td>
</tr>
<tr>
<td>College of Business</td>
<td>283,587</td>
<td>229,728</td>
<td>53,859</td>
<td>23.4%</td>
</tr>
<tr>
<td>College of Computing</td>
<td>902,188</td>
<td>691,554</td>
<td>210,634</td>
<td>30.5%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>6,747,269</td>
<td>6,382,852</td>
<td>364,417</td>
<td>5.7%</td>
</tr>
<tr>
<td>College of Forest Resources &amp; Environmental Science</td>
<td>1,394,688</td>
<td>1,057,772</td>
<td>336,916</td>
<td>31.9%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>2,976,747</td>
<td>2,651,724</td>
<td>325,023</td>
<td>12.3%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>343,546</td>
<td>248,161</td>
<td>95,385</td>
<td>38.4%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>84,904</td>
<td>93,698</td>
<td>(8,794)</td>
<td>-9.4%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>1,870,631</td>
<td>1,823,082</td>
<td>47,549</td>
<td>2.6%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>2,895,737</td>
<td>2,313,847</td>
<td>581,890</td>
<td>25.1%</td>
</tr>
<tr>
<td>Total</td>
<td>20,043,456</td>
<td>17,403,263</td>
<td>2,640,193</td>
<td>15.2%</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.

External Expenditures + 17.2%

Internal Expenditure + 12.6%
COVID-19 Testing Lab

- 36,000+ Samples Processed
- Portage Health Foundation Support
- *Kingfisher* For RNA Extraction
- Medical Lab Experience for Students
Cary A. Gottlieb, MD
OSF
St. Francis Hospital

Current Lab Staff:
Morgan Codere
Trisha Colling Lynn
Manchester
Aimee Marceau
Hannah Reish
McKinnon
Alshouq Zainab
Momoko Tajari
Spencer Snider
Delilah Hauswirth
Jenna Disser
Grant Thivierge

Karl Meingast

Bill Kordenbrock

Mike Abbott

Kim Codere

Natasha Chopp

Tammy LaBissoniere

Julie Seppala

Sarah Schulte

Kelley Christensen

David Dixon

Joel Smith

Chem Stores Clerks
John LeMay
Jesse Garrow

Jeff Lewin

Michigan Technological University

Testing Staff
Flex Task Force
Cathy Jenich
Brian Cadwell
Emmett Golde
Brooke Goulette
B. **Treasurer’s Report**  
   Sue Kerry, Treasurer  
   a. **External Auditor’s Report**  
      TBD, Plante Moran
C. Trash to Treasure: How microbial communities and chemical processing can convert plastic into protein powder
   Stephen Techtmann, Associate Professor, Biological Sciences
Trash to Treasure: How microbial communities and chemical processing can convert plastic into protein powder

Stephen Techtmann
Associate Professor
Biological Sciences
Food is on the most fundamental needs
Food insecurity is a global challenge.

690 million people are hungry.

12 million increase each year.
Plastic pollution is a pressing threat worldwide. Inexpensive and durable, plastics are accumulating in landfills, with 9% recycled, 12% incinerated, and 79% accumulated. As of 2015, there are 6.3 billion tons of plastic, with 380 million tons every year, and by 2050, this will increase to 34 billion tons. Plastics are expected to outnumber fish in oceans by 2050.
Our vision: Addressing the twin challenges simultaneously

Plastic waste

Food insecurity and malnutrition

One man’s trash is another man’s treasure
A drop of lake water can contain over 1 million microbes and thousands of species. Many industrially relevant chemical reactions can be performed by environmental bacteria.
Our vision: Addressing the twin challenges simultaneously

Plastic waste

Our vision: Addressing the twin challenges simultaneously

Food insecurity and malnutrition

One man’s trash is another man’s treasure
Our strategy: Harnessing microbial communities to turn waste to food

Plastic waste $\rightarrow$ conversion + augmentation $\rightarrow$ Food

isolates of native consortia + rationally engineered microbes
Conversion: Plastic breakdown

Plastics are polymers with a high energy cost to break.

<table>
<thead>
<tr>
<th>Polymer Name</th>
<th>POLYETHYLENE TEREPTHALATE</th>
<th>HIGH-DENSITY POLYETHYLENE</th>
<th>POLYVINYL CHLORIDE</th>
<th>LOW-DENSITY POLYETHYLENE</th>
<th>POLYPROPYLENE</th>
<th>POLYSTYRENE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Temperature</td>
<td>70°C (158°F)</td>
<td>120°C (248°F)</td>
<td>70°C (158°F)</td>
<td>80°C (176°F)</td>
<td>135°C (275°F)</td>
<td>90°C (194°F)</td>
</tr>
<tr>
<td>Brittleness Temperature</td>
<td>-40°C (-40°F)</td>
<td>-100°C (-148°F)</td>
<td>-30°C (-22°F)</td>
<td>-100°C (-148°F)</td>
<td>-20°C (-4°F)</td>
<td>Polycarbonate: 135°C (275°F)</td>
</tr>
<tr>
<td>How Long to Decompose</td>
<td>5-10 Years</td>
<td>100 Years</td>
<td>Never</td>
<td>500-1,000 Years</td>
<td>20-30 Years</td>
<td>50 Years</td>
</tr>
<tr>
<td>Under Perfect Conditions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Majority of these plastics: never</td>
</tr>
</tbody>
</table>

Our focus: A coupled biological and chemical process for conversion of plastic into SCP.
Coupling chemical and biological process can speed up the rate of conversion of plastic.

Bacteria can efficiently grow using deconstructed plastics.

This bacterial biomass can be recovered as single cell protein (food).
We have been developing a flexible system for conversion of olefin plastics (HDPE, LDPE, PP) and ester-based plastics (PET) into microbial biomass using two chemical processes as well as a consortium of bacteria able to deal with diverse inputs.
Conversion: Natural consortia grow rapidly to high biomass

- Rapid growth was observed using pyrolysis product as the carbon source.
- These consortia can grow to biomass densities on chemical breakdown products of HDPE in 24 – 48 hours.
Conversion: Chemically Deconstructed PET can replace culture medium
Division of labor in synthetic microbial communities for TPA conversion (Glu+)

Rhodococcus jostii (R.j.)

Corynebacterium glutamicum (C.g.)

Conversion: Engineered consortia convert TPA to biomass (glutamate+)

Diagram showing metabolic pathways for TPA conversion and glutamate production.
Final Products from the Process
Future Plan

Waste → Engineered and Natural Consortium → Food (SCP)

Plastic Waste → Engineered Breakdown → Natural Conversion → Enhanced Nutrition

Lignocellulosic waste → Engineered Breakdown → Natural Conversion → Enhanced Nutrition
Acknowledgements

Techtmann Research Group (ReSource Team)
- Dr. Lindsay Putman
- Laura Schaerer
- Emily Wood
- Yogita Warkhade
- Megan Schultz - MiCUP

Collaborators
Michigan Tech
- David Shonnard
- Rebecca Ong
University of Illinois Urbana-Champaign
- Ting Lu
Western University
- Joshua Pearce

Funding
- DARPA ReSource Program
- Merck Future Insight Prize
D. Undergraduate Student Government
   Zack Olson, President
USG BOARD OF TRUSTEES UPDATE

Zachary Olson, USG President
December 17, 2021
BREAK BUSES

- 55 students bought tickets to ride the Thanksgiving Break Bus, selling each seat
- In preparation for the Winter Break Bus, USG sent a survey to assess demand for a second bus
STUDENT LIFE

- Reviewed Senate Proposal 2-22, concerning teaching evaluations

- Planned an open forum on student organization event catering policies
STUDENT ORGANIZATION FINANCES

- Reviewing the six Special Budgetary Groups at MTU, implementing an internal review process in parallel

- Preparing for Registered Student Organization budget hearings in Spring 2022
OTHER INITIATIVES

● Hosted a **roundtable discussion** with the Houghton City Council and City Manager on Dec. 2

● Implemented a **public Discord server** for MTU students to communicate with USG
THANK YOU! QUESTIONS?
CONTACT

Zachary Olson

Undergraduate Student Government, President

usg-president@mtu.edu | zaolson@mtu.edu

(989) 439-6884
E. Graduate Student Government
   Nathan Ford, President
Advocacy • Enrichment • Community

Graduate Student Government

Nathan Ford

December 17, 2021
Board of Trustees
Michigan Technological University
Agenda

- New Officers
- Fall Semester Wrap-Up
- Spring Semester Plans
- Travel and Career Enrichment Grant Report
New Officers

First_Name Last_Name
Department
President Elect

First_Name Last_Name
Department
Professional Development Chair

First_Name Last_Name
Department
Social Chair
3 Minute Thesis

- 37 Participants
- Finals held at the beautiful Orpheum Theater in Hancock
- Winners
  - 1st Place - Priyanka Kadava - *Capture and Release (CaRe): A Novel Protein Purification Technique*
  - Runner Up - Emily Shaw
  - People’s Choice - Yue (Emily) Kang
Grad Commons

- **Survey Complete**
  - Over 100 responses
- **Public Forums**
  - 3 Forums Held
- **Renovation Plan**
  - Final Design Drafted
  - Renovation submitted to Facilities
  - Acquiring furniture for the house
Grammarly @EDU

- Pilot Program Wrapping Up
- Over 1,000 users with nearly 600 daily users
- Feedback Survey will be conducted early Spring semester
- Will draft a report on usage statistic and feedback
- If you have any comments, positive or negative, please send them our way!
Community

The **Halloween Escape Room** was a hit!

Around 50 graduate students managed to escape!
Fall So Far

- Advocacy
  - Accessibility Ad-hoc Committee
  - Advocacy Ad-hoc Committee
  - Student Insurance Committee Recommendations

- Enrichment
  - Seminar Series
    - Journal Writing
    - Public Speaking
    - Managing Finances

- In Total
  - 2 Research Events
  - 5 Town Halls
  - 4 Social Events
  - 4 Seminars
Looking Ahead

● Advocacy
  ○ Husky GEAR
  ○ Grad Commons - Official Launch!
  ○ Travel Grant Advancement Campaign
  ○ Graduate Student Workload/Funding Models

● Enrichment
  ○ Graduate Research Colloquium
  ○ Merit Awards
  ○ Seminar Series
    ■ Programming for R
    ■ Navigating Advisee Relationships
    ■ How to be an effective TA/TI and RA
    ■ Young Professionals Panel
    ■ Career Navigation for Scientists

● Community
  ○ Lots of fun new social events!
Travel Grant Stats  (as of 12/3/21)

• Total Applications : 34 (PhD - 31, MS - 3)
  ○ Presenting - 30 (PhD - 28, MS - 2)
  ○ Attending - 4 (PhD - 3, MS - 1)

Career Enrichment Grant Stats

• Total Applications : 11 (PhD - 7, MS - 4)
Advocacy • Enrichment • Community

Thank You
F. University Senate
   Samuel Sweitz, President
University Senate Update

Sam Sweitz, Senate President
Business from Fall 2021

20 Numbered Proposals/Resolutions and counting

- Proposal 1-22: University Senate Handbook
- Proposal 2-22: Revisions to Procedure 504.1.1 Teaching Effectiveness Evaluations
- Proposal 8-22: Establishment of a New Master’s in Manufacturing Engineering
- Resolution 9-22: Resolution to Raise Awareness and Reduce Mental Health Stigma
- Seven minor degree program proposals

December 17, 2021
Updates on Ballot Initiatives

Vote on Faculty Handbook additions:

Section 2.5 Role of Innovation and Commercialization

Section 2.6 Role of Diversity, Equity, and Inclusion to the Faculty Handbook

December 17, 2021
Agenda Items for Spring

• Proposal19-22: Uses of Student Evaluations of Instruction: Best-Practice and Minimal Standards

• Updates to Senate Chair and Dean Review Policies

• Calendar: Fall start date, Fall Break, Spring Break, universal meeting time

• Updates to Senate Constitution and Bylaws

December 17, 2021
IX. Action and Discussion Items

A. Emeritus Rank
   Jacqueline Huntoon, Provost

IX-A. EMERITUS RANK Recommendation for the granting of faculty emerita/emeritus status originates within the retiree’s academic department and proceeds through the respective college. Once approved, the recommendation is presented to the Provost, and if successful, to the President of the University for presentation to the Board of Trustees.

RECOMMENDATION: The Board of Trustees approves the following emeritus appointments:

   Dr. Victoria Bergvall, Professor Emerita, Department of Humanities
   Dr. Thomas Co, Professor Emeritus, Department of Chemical Engineering
   Dr. Faith Morrison, Professor Emerita, Department of Chemical Engineering
   Dr. Diane Shoos, Professor Emerita, Department of Humanities
OFFICE MEMO

TO: Michigan Technological University Board of Trustees

FROM: Scott Marratto, Chair
       Department of Humanities

DATE: November 20, 2021

SUBJECT: Recommendation for Emerita Status

The faculty of the Department of Humanities/College of Sciences & Arts voted on November 3, 2021 to request that the Michigan Technological University Board of Trustees name Dr. Victoria Bergvall as Professor Emerita upon her retirement on June 30, 2021.

Dr. Bergvall has served for 32 years in the Department of Humanities. She received her BA in English from Whitman College (1978, summa cum laude, Phi Beta Kappa), and her MA (1982) and PhD (1987) in Linguistics from Harvard University (where she was also cross-enrolled at MIT). [Please see attached document.]

Scott Marratto
Digitally signed by Scott Marratto
Date: 2021.11.30 15:49:30 -05'00'

Scott Marratto, Interim Chair/Humanities Dept.

David Hemmer
Digitally signed by David Hemmer
Date: 2021.11.30 16:01:56 -05'00'

David Hemmer, Dean/College of Sciences & Arts

Jacqueline E. Huntoon
Digitally signed by Jacqueline E. Huntoon
Date: 2021.12.01 14:48:31 -05'00'

Jacqueline Huntoon, Provost/Senior VP for Academic Affairs

Richard J. Koubek
Digitally signed by Richard J. Koubek
Date: 2021.12.02 07:25:10 -06'00'

Rick Koubek, President
History of Employment: Before coming to Michigan Tech, Dr. Bergvall was an Instructor at Northeastern University in Boston and then an Assistant Professor of Linguistics at Rensselaer Polytechnic Institute (RPI) in Troy, New York. Dr. Bergvall started at MTU in August of 1989 as an Assistant Professor of Linguistics and was tenured and promoted to Associate Professor in May 1996. She served as the Humanities Department’s Director of Graduate Studies in Rhetoric and Technical Communication from 1999 to 2002, where she helped oversee the program’s conversion to semesters. In 2014, she chaired the committee that oversaw the program’s name and content change to Rhetoric, Theory and Culture.

Publications/Presentations/Awards: Dr. Bergvall’s publications include two co-edited books, *Rethinking Language and Gender Research: Theory and Practice* (1996, Longman; 2014 Routledge) with Janet M. Bing, & Alice F. Freed; and *Feminist Vigilance* (2020, Palgrave MacMillan) with Patty Sotrin & Diane Shoos; and 15 peer-reviewed journal articles, book chapters and other publications. She is presently working on a monograph, *Language, Gender, Sex, and Sexuality: Beyond Nature vs. Nurture*. She was invited to give seven plenary talks and seminars, including presentations in Sweden, Germany, Poland, Canada, and the United States, and she delivered 65 other presentations at conferences in the United States, Canada, England, Spain, New Zealand, Japan, and Kenya. Dr. Bergvall has been the recipient of a National Science Foundation Grant, a MTU Faculty Scholarship Grant, and a Fulbright for doctoral research in Kenya. She was elected president of the International Gender and Language Association and served as chair of the Committee on the Status of Women in Linguistics for the Linguistic Society of America. She co-chaired national conferences for the Linguistic Society of America and the Organization for the Study of Communication, Language, and Gender. She was named a Fulbright Senior Specialist, received a national award for the Outstanding Conference Paper from the Organization for the Study of Communication, Language, and Gender, and the Exceptional Graduate Mentor Award in 2020 from the Michigan Tech’s Graduate Student Government.

Graduate & Undergraduate Education: Dr. Bergvall has served on 77 doctoral and master’s committees, including chairing six completed PhD dissertations (of students who all accepted tenure-track positions) with three more still in process; she also chaired 13 completed masters’ degrees. She created or innovated over 50 different undergraduate and graduate courses in linguistics, feminist and diversity studies, and general education. She helped to design the Diversity Studies minor within the Department of Humanities and create courses for that minor.

Service: Both nationally and internationally. Dr. Bergvall is a frequent referee for publications and conference submissions. At Michigan Tech, she has served on the ADVANCE grant Internal Evaluation and Advisory Board (IEAB), among many other university-level committees, and she chaired the College of Science and Arts’ Tenure, Promotion, and Reappointment Committee. She has served on or led numerous Department of Humanities governance, curriculum, and search committees. She has given numerous local outreach presentations, including some on the UP (Yooper) dialect with then-graduate student Kathryn Remlinger (now Professor of Linguistics at Grand Valley State University), for Carl Pelonpaa’s *Finland Calling/Suomi Kuutsu*, TV Channel 6 (in Marquette), and for the Michigan Tech Alumni Association.

We are pleased to recommend Dr. Bergvall's appointment as Professor Emerita.
TO: Michigan Technological University Board of Trustees

FROM: Department of Chemical Engineering

DATE: September 20, 2021

SUBJECT: Recommendation of Professor Emeritus Status for Dr. Tomas B Co

The faculty of the Department of Chemical Engineering voted on September 17, 2020 with a simple majority to request that the Michigan Technological University Board of Trustees name Associate Professor Tomas B. Co as Professor Emeritus pursuant to his retirement on September 1, 2021.

Dr. Co joined Chemical Engineering as an Assistant Professor in 1990. He has authored one book during this period. Dr. Co plans to remain active and continue his book writing activity.

Approved

______________________________
Department Chair

Janet Callahan

Digitally signed by Janet Callahan
Date: 2021.11.01
10:10:06 -04'00'

______________________________
College Dean

Jacqueline E. Huntoon

Digitally signed by Jacqueline E. Huntoon
Date: 2021.11.01
17:13:41 -04'00'

______________________________
Provost and Senior Vice President for Academic Affairs

Richard J. Koubek

Digitally signed by Richard J. Koubek
Date: 2021.11.02
09:51:16 -05'00'

______________________________
President

Date
TO: Michigan Technological University Board of Trustees
FROM: Department of Chemical Engineering
DATE: September 20, 2021
SUBJECT: Recommendation of Professor Emerita Status for Dr. Faith A Morrison

The faculty of the Department of Chemical Engineering voted on September 17, 2020 with a simple majority to request that the Michigan Technological University Board of Trustees name Professor Faith A. Morrison as Professor Emerita pursuant to her retirement on September 1, 2021.

Dr. Morrison joined Chemical Engineering as an Assistant Professor in 1990. She has authored three books during this period. She has been active in a number of campus-wide organizations. She also served as Associate Dean for Graduate School 2016-2019. In addition, she has edited the newsletter for the Society of Rheology for many years. She was one of the faculty members selected for the Dean’s Teaching Showcase in spring 2019. Dr. Morrison plans to remain active and continue her book writing activity, and some of her service activities in the forseeable future. She also plans to engage in developing internet teaching and learning resources.

Approved

[Signature]
Department Chair

[Signature]
Date

Janet Callahan
Digitally signed by Janet Callahan
Date: 2021.11.01
10:09:58 -04'00'

College Dean

[Signature]
Date

Jacqueline E. Huntoon
Digitally signed by Jacqueline E. Huntoon
Date: 2021.11.01
17:13:28 -04'00'

Provost and Senior Vice President for Academic Affairs

[Signature]
Date

Richard J. Koube
Digitally signed by Richard J. Koube
Date: 2021.11.02
09:50:58 -05'00'

President

[Signature]

Revised 9/21/16
TO: Michigan Technological University Board of Trustees

FROM: Scott Marratto, Chair
Department of Humanities

DATE: November 20, 2021

SUBJECT: Recommendation for Emerita Status

The faculty of the Department of Humanities/College of Sciences & Arts voted on November 3, 2021 to request that the Michigan Technological University Board of Trustees name Dr. Diane Shoos as Professor Emerita upon her retirement on June 30, 2021.

Dr. Shoos received her PhD in French (with a minor in Cinema Studies) from Ohio State University in 1986. She became Assistant Professor at Michigan Tech in 1986 and was promoted to Full Professor in 2020. [See attached document]
(Recommendation for Emerita Status—Dr. Diane Shoos)

Dr. Shoos has made significant contributions to the scholarship in her field, particular around issues of domestic violence and its depictions in cinema. This is exemplified in her 2017 book, *Domestic Violence in Hollywood Film: Gaslighting* (Palgrave). She has also published numerous articles and book chapters, most recently:


Dr. Shoos was Co-PI on an NEH grant “Strengthening Foreign Language and Intercultural Study at Michigan Technological University,” $226,968, 1987-1990. She has also served in 54 graduate committees, including 6 as PhD chair.

Dr. Shoos has made extensive contributions in service both at the department and university levels, in particular through her commitment to diversity, equity, and inclusion. She has served as Director of Graduate Studies (1996-99) and twice as chair of our department P&T committee.

Dr. Shoos has been an exemplary scholar, teacher and colleague. We are pleased to recommend her appointment as Professor Emerita.
B. Honorary Degree
   Jacqueline Huntoon, Provost

IX-B. HONORARY DEGREE

The Administration recommends that Mr. Michael A. Pulick, Jr. be awarded an Honorary Doctorate of Philosophy degree from Michigan Technological University.

Mr. Michael Pulick earned his Bachelor of Science in Electrical Engineering from Michigan Technological University in 1986. As an alumnus, he continues to support Michigan Tech with his time, talent, and treasure. He currently serves as the Chair of the Michigan Tech Fund Board, is a member of the Department of Electrical and Computer Engineering’s Academy, and has previously served on the College of Business Dean’s Advisory Council.

Mr. Pulick retired from W.W. Grainger, Inc. where he was President of Grainger US and Grainger International. Prior to dedicating a majority of his career to Grainger, he spent 12 years with General Electric. In 2015, Michael joined the private equity firm Warburg Pincus as an Executive in Residence for the Industrial and Business Service sector until the end of 2019. He currently serves on the Board of Directors for Wencor Group, Kano Laboratories, and Wittichen Supply and is an adjunct professor at the Florida Gulf Coast University and Lake Forest Graduate School of Management.

RECOMMENDATION: It is recommended that the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. Michael A. Pulick, Jr.
IX-C. CREATION OF BOARD POLICY 6.9, STUDENT EVALUATION OF INSTRUCTION

Rationale:
It is important that instructional personnel and their supervisors review feedback documenting students’ perceptions of the quality and effectiveness of instruction at Michigan Technological University. Teaching is one of the three areas evaluated during the tenure, promotion, and reappointment processes at Michigan Tech. Only the Board of Trustees has authority to grant tenure or promotion at Michigan Tech. Therefore, the administration requests the Board approve creation of Board Policy 6.9, Student Evaluation of Instruction.

Proposed Policy:
Summarized numerical responses and written comments provided by students will be shared with each instructor, the instructor’s director supervisor (for GTAs/GTIs), and the academic administrator of the unit(s) offering the course taught by the instructor. Deans of colleges with departments and the provost (or their designee) will be provided with the summarized numerical responses and will be provided with access to written comments upon request. Summaries of numerical responses and written student comments from General Education core course sections constitute a special case and will also be sent to the relevant core course coordinator and to the person charged by the provost with General Education instructional oversight.

RECOMMENDATION: It is recommended that the Board of Trustees approves the creation of Board Policy 6.9, Student Evaluation of Instruction.
D. Employment Matters
Steve Tomaszewski, Leadership Committee Chair
E. Acceptance of Financial Statements
   Sue Kerry, Treasurer
IX-F. Resolution to Proceed with Construction of the H-STEM Engineering and Health Technologies Complex - Phase I
G. Approval of Strategic Plan  
Richard Koubek, President

IX-G. APPROVAL OF STRATEGIC PLAN

In February 2021, the Board of Trustees discussed the Strategic Plan as part of its retreat. It was determined that no changes would be made to the plan, but that the existing Tech Forward initiatives would be added to clarify the current focus areas for Michigan Tech. The Tech Forward initiatives were the result of faculty, staff, student, alumni, and community collaboration that began in Fall 2018.

RECOMMENDATION: It is recommended that the Board of Trustees affirms the current Strategic Plan and the addition of the Tech Forward initiatives to the plan.
X. Informational Items
A. Analysis of Investments
<table>
<thead>
<tr>
<th></th>
<th>Market Value 6/30/21</th>
<th>Market Value 9/30/21</th>
<th>Fiscal-Year Return</th>
<th>Benchmark Return</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Money Market Fund</strong></td>
<td>$ 2,227,371</td>
<td>$ 2,290,983</td>
<td>0.00%</td>
<td>0.01%</td>
<td>ICE BofA Merrill Lynch US T-Bill Index</td>
</tr>
<tr>
<td><strong>Equity Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Equity Fund</td>
<td>11,505,342</td>
<td>11,285,530</td>
<td>0.51%</td>
<td>0.58%</td>
<td>S&amp;P 500</td>
</tr>
<tr>
<td>Commonfund Strategic Solutions Equity Fund</td>
<td>6,888,970</td>
<td>6,684,412</td>
<td>0.72%</td>
<td>0.58%</td>
<td>S&amp;P 500</td>
</tr>
<tr>
<td><strong>Total Equity Funds</strong></td>
<td>18,394,312</td>
<td>17,969,942</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fixed Income Funds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate Term Fund</td>
<td>8,896,448</td>
<td>9,116,197</td>
<td>0.00%</td>
<td>0.06%</td>
<td>ICE BofA Merrill Lynch 1-3 Yr Treasury</td>
</tr>
<tr>
<td>Commonfund Contingent Asset Portfolio</td>
<td>8,892,319</td>
<td>9,117,309</td>
<td>-0.05%</td>
<td>0.06%</td>
<td>ICE BofA Merrill Lynch 1-3 Yr Treasury</td>
</tr>
<tr>
<td>High Quality Bond Fund</td>
<td>6,760,565</td>
<td>6,776,228</td>
<td>0.15%</td>
<td>0.05%</td>
<td>Bloomberg Barclays US Aggregate Bond Index</td>
</tr>
<tr>
<td><strong>Total Fixed Income Funds</strong></td>
<td>24,549,332</td>
<td>25,009,734</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$ 45,171,015</td>
<td>$ 45,270,659</td>
<td>0.25%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Current Asset Allocation**
- Cash Equivalents, 5%
- Fixed Income - Short Duration, 40%
- Fixed Income - Long Duration, 15%
- Equities, 40%

**Target Asset Allocation**
- Cash Equivalents, 5%
- Fixed Income - Short Duration, 40%
- Fixed Income - Long Duration, 15%
- Equities, 40%
B. Research & Sponsored Programs
Sponsored Awards
Fiscal Year 2022
1st Quarter
 Ended Sept 30, 2021
TOTAL: $26,769,103

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

FYTD 2021: 1
FYTD 2022: 4

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '22 as of 9/30</th>
<th>FY '21 as of 9/30</th>
<th>FY '22 as of 9/30</th>
<th>FY '21 as of 9/30</th>
<th>FY '22 as of 9/30</th>
<th>FY '21 as of 9/30</th>
<th>Awards Received ($)</th>
<th>Variance</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>16</td>
<td>17</td>
<td>10</td>
<td>13</td>
<td>2,700,962</td>
<td>684,908</td>
<td>2,016,054</td>
<td>294.4%</td>
<td></td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>41</td>
<td>26</td>
<td>23</td>
<td>20</td>
<td>8,033,360</td>
<td>4,995,720</td>
<td>3,037,640</td>
<td>60.8%</td>
<td></td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>31</td>
<td>10</td>
<td>16</td>
<td>31</td>
<td>1,053,037</td>
<td>1,741,702</td>
<td>-688,665</td>
<td>-39.5%</td>
<td></td>
</tr>
<tr>
<td>US Department of Defense</td>
<td>17</td>
<td>31</td>
<td>29</td>
<td>24</td>
<td>7,175,561</td>
<td>7,037,279</td>
<td>138,282</td>
<td>2.0%</td>
<td></td>
</tr>
<tr>
<td>US Department of Education</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>102,145</td>
<td>-</td>
<td>102,145</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>US Department of Energy</td>
<td>9</td>
<td>13</td>
<td>10</td>
<td>15</td>
<td>2,231,969</td>
<td>1,415,458</td>
<td>816,511</td>
<td>57.7%</td>
<td></td>
</tr>
<tr>
<td>US Department of HHS</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>4</td>
<td>386,583</td>
<td>955,319</td>
<td>-568,736</td>
<td>-59.5%</td>
<td></td>
</tr>
<tr>
<td>US Department of Transportation</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>885,066</td>
<td>788,126</td>
<td>96,940</td>
<td>12.3%</td>
<td></td>
</tr>
<tr>
<td>Other Federal Agencies*</td>
<td>17</td>
<td>12</td>
<td>17</td>
<td>11</td>
<td>1,302,529</td>
<td>1,281,762</td>
<td>20,767</td>
<td>1.6%</td>
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</tr>
<tr>
<td>Federal Agency Total</td>
<td>139</td>
<td>120</td>
<td>115</td>
<td>121</td>
<td>23,871,212</td>
<td>18,900,274</td>
<td>4,970,938</td>
<td>26.3%</td>
<td></td>
</tr>
<tr>
<td>State of Michigan</td>
<td>17</td>
<td>10</td>
<td>7</td>
<td>8</td>
<td>890,640</td>
<td>566,820</td>
<td>323,820</td>
<td>57.1%</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td>38</td>
<td>48</td>
<td>38</td>
<td>27</td>
<td>1,138,907</td>
<td>837,713</td>
<td>301,194</td>
<td>36.0%</td>
<td></td>
</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>5</td>
<td>25,291</td>
<td>546,448</td>
<td>-521,157</td>
<td>-95.4%</td>
<td></td>
</tr>
<tr>
<td>All Other Sponsors</td>
<td>22</td>
<td>22</td>
<td>11</td>
<td>9</td>
<td>208,008</td>
<td>153,976</td>
<td>54,032</td>
<td>35.1%</td>
<td></td>
</tr>
<tr>
<td>Subtotal</td>
<td>218</td>
<td>204</td>
<td>173</td>
<td>170</td>
<td>26,134,058</td>
<td>21,005,231</td>
<td>5,128,827</td>
<td>24.4%</td>
<td></td>
</tr>
<tr>
<td>Gifts**</td>
<td>N/A</td>
<td>N/A</td>
<td>51</td>
<td>39</td>
<td>635,045</td>
<td>450,021</td>
<td>185,024</td>
<td>41.1%</td>
<td></td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>6,776</td>
<td>-6,776</td>
<td>-100.0%</td>
<td></td>
</tr>
<tr>
<td>Grand Total</td>
<td>218</td>
<td>204</td>
<td>224</td>
<td>213</td>
<td>26,769,103</td>
<td>21,462,028</td>
<td>$5,307,075</td>
<td>24.7%</td>
<td></td>
</tr>
</tbody>
</table>

Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II (Covid Relief) from US Department of Education


**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.
# Fiscal Year 2022
## 1st Quarter
Ended Sept 30, 2021

**TOTAL:** $26,769,103

### Percentages of Tenured & Tenure Track Faculty

- **Great Lakes Research Center**: 31.9%
- **Keweenaw Research Center**: 99.2%
- **College of Sciences & Arts**: 22.0%
- **Pavlis Honors College**: 8.6%
- **College of Business**: 10.6%
- **College of Computing**: 12.1%
- **College of Forest Resources & Env Science**: 16.3%
- **College of Engineering**: 23.0%
- **Advanced Power Systems Research Center / MEEM**: 20.0%

### SPO & OIC Metrics

<table>
<thead>
<tr>
<th>Metric</th>
<th>Administration</th>
<th>Advanced Power Systems Research Center / MEEM</th>
<th>College of Business</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>Keweenaw Research Center</th>
<th>Michigan Tech Research Institute</th>
<th>Pavlis Honors College</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposals Submitted</td>
<td>8</td>
<td>6</td>
<td>1</td>
<td>12</td>
<td>106</td>
<td>38</td>
<td>18</td>
<td>8</td>
<td>9</td>
<td>12</td>
<td>218</td>
</tr>
<tr>
<td>Awards Received</td>
<td>31</td>
<td>2</td>
<td>2</td>
<td>13</td>
<td>80</td>
<td>27</td>
<td>19</td>
<td>10</td>
<td>8</td>
<td>8</td>
<td>25</td>
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<tr>
<td>Federal</td>
<td>50,000</td>
<td>-</td>
<td>-</td>
<td>1,066,982</td>
<td>2,724,896</td>
<td>1,218,980</td>
<td>8,651,230</td>
<td>1,807,652</td>
<td>5,867,636</td>
<td>926,976</td>
<td>26,769,103</td>
</tr>
<tr>
<td>Federal Pass-Through</td>
<td>149,413</td>
<td>-</td>
<td>99,998</td>
<td>718,706</td>
<td>138,737</td>
<td>107,875</td>
<td>181,991</td>
<td>-</td>
<td>3,286,171</td>
<td>-</td>
<td>4,682,891</td>
</tr>
<tr>
<td>Foreign</td>
<td>-</td>
<td>-</td>
<td>10,640</td>
<td>1,071,936</td>
<td>8,500</td>
<td>-</td>
<td>-</td>
<td>20,000</td>
<td>-</td>
<td>25,291</td>
<td></td>
</tr>
<tr>
<td>Gifts</td>
<td>363,404</td>
<td>-</td>
<td>663,812</td>
<td>1,231,236</td>
<td>17,500</td>
<td>-</td>
<td>39,845</td>
<td>237,292</td>
<td>-</td>
<td>1,138,907</td>
<td></td>
</tr>
<tr>
<td>Crowd Funding</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6,776</td>
</tr>
<tr>
<td>Industry</td>
<td>-</td>
<td>49,222</td>
<td>-</td>
<td>61,186</td>
<td>-</td>
<td>64,966</td>
<td>49,456</td>
<td>7,400</td>
<td>25,000</td>
<td>-</td>
<td>206,008</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>215,024</td>
<td>121,558</td>
<td>-</td>
<td>-</td>
<td>890,640</td>
<td>566,820</td>
</tr>
<tr>
<td>State of MI</td>
<td>504,058</td>
<td>50,000</td>
<td>122,285</td>
<td>5,777,389</td>
<td>2,812,389</td>
<td>3,700,112</td>
<td>765,933</td>
<td>5,208,931</td>
<td>2,193,501</td>
<td>-</td>
<td>21,462,028</td>
</tr>
</tbody>
</table>

### Fiscal Comparison

<table>
<thead>
<tr>
<th>Fiscal Comparison</th>
<th>Administration</th>
<th>Advanced Power Systems Research Center / MEEM</th>
<th>College of Business</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>Keweenaw Research Center</th>
<th>Michigan Tech Research Institute</th>
<th>Pavlis Honors College</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Change</td>
<td>95.3%</td>
<td>N/A</td>
<td>N/A</td>
<td>897.1%</td>
<td>-57.5%</td>
<td>52.6%</td>
<td>-</td>
<td>21.0%</td>
<td>-16.0%</td>
<td>-16.0%</td>
<td>24.7%</td>
</tr>
</tbody>
</table>

### Percent Change

- Federal: 95.3%
- Federal Pass-Through: 94.5%
- Foreign: 52.6%
- Gifts: 90.0%
- Crowd Funding: -100.0%
- Industry: 36.0%
- Other: -100.0%
- State of MI: 57.1%

### Disclosures Received

- Proposals Submitted: 8
- Awards Received: 218

### Nondisclosure Agreements

- Administration: 1
- Advanced Power Systems Research Center / MEEM: 1
- College of Business: 1
- College of Computing: -
- College of Engineering: -
- College of Forest Resources & Env Science: -
- College of Sciences & Arts: -
- Keweenaw Research Center: -
- Michigan Tech Research Institute: -
- Pavlis Honors College: -

### Patents Filed or Issued

- Proposals Submitted: 2
- Awards Received: 7

### License Agreements

- Proposals Submitted: -
- Awards Received: -

### Gross Royalties

- Proposals Submitted: -
- Awards Received: -

### Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II (Covid Relief) from US Department of Education

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).
Michigan Technological University  
Total Research Expenditures by College/School/Division  
Fiscal Year 2022 & 2021  
As of September 30, 2021 and September 30, 2020

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>FY2022</th>
<th>FY2021</th>
<th>Variance</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration*</td>
<td>2,327,481</td>
<td>1,910,845</td>
<td>416,636</td>
<td>21.8%</td>
</tr>
<tr>
<td>Advanced Power Systems Research Center (APSRC) / MEEM</td>
<td>216,678</td>
<td>N/A</td>
<td>216,678</td>
<td>N/A</td>
</tr>
<tr>
<td>College of Business</td>
<td>283,587</td>
<td>229,728</td>
<td>53,859</td>
<td>23.4%</td>
</tr>
<tr>
<td>College of Computing</td>
<td>902,188</td>
<td>691,554</td>
<td>210,634</td>
<td>30.5%</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>6,747,269</td>
<td>6,382,852</td>
<td>364,417</td>
<td>5.7%</td>
</tr>
<tr>
<td>College of Forest Resources &amp; Environmental Science</td>
<td>1,394,688</td>
<td>1,057,772</td>
<td>336,916</td>
<td>31.9%</td>
</tr>
<tr>
<td>College of Science &amp; Arts</td>
<td>2,976,747</td>
<td>2,651,724</td>
<td>325,023</td>
<td>12.3%</td>
</tr>
<tr>
<td>Great Lakes Research Center**</td>
<td>343,546</td>
<td>248,161</td>
<td>95,385</td>
<td>38.4%</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>84,904</td>
<td>93,698</td>
<td>(8,794)</td>
<td>-9.4%</td>
</tr>
<tr>
<td>Keweenaw Research Center (KRC)</td>
<td>1,870,631</td>
<td>1,823,082</td>
<td>47,549</td>
<td>2.6%</td>
</tr>
<tr>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>2,895,737</td>
<td>2,313,847</td>
<td>581,890</td>
<td>25.1%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>20,043,456</td>
<td>17,403,263</td>
<td>2,640,193</td>
<td>15.2%</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.
C. Advancement & Alumni Relations
2021-2022 Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Campaign prep (completion of the feasibility study, following through on recommendations)
  - Review the fee structure to be sure it's in accordance with our peers and appropriate for a campaign
  - Review of the MTF bylaws
  - Ensure Donor integrity and intention in every aspect of our business
  - Evaluate private assets as an investment vehicle for the endowment
  - Revitalize alumni engagement with services and programs virtually and across the nation
- Rebrand and refocus annual giving toward engaging more first time donors
- Implement Customer Relationship Management software
- Engage alumni, principal and major gift donors and corporate/foundation partners in a virtual and hybrid environment
- Launch Alumni DEIS Advisory Board for Fall and establish alumni board liaison

Recent Activity

- Welcomed new team members: Jennifer (Jung) Lucas '09, AVP of Alumni Engagement, Kari Price Assistant Director for Alumni and Student Programming and Tayler Tankersley, Principal Giving Associate.
- Raised over $11.5 million to date 29% of the $40.75 million goal.
- Frontline fundraiser travel continues with positive outcomes.
- $53.9 million pending asks from 218 individual donors.
- Establishing principal gifts totaling $17 million for endowed scholarships and chairs to support programs in the College of Business, Engineering, and Sciences and Art.
- Rebranding Annual Giving is underway.
- BWF has completed interviews with campus leaders and is moving forward with donor interviews.
- Feasibility study underway and engaging alumni for the campaign.
- Completed the data requests for the Campaign Readiness Study and preparing the engagement survey questions (deployment December 2) and reviewing the results from the wealth screening process.
- Preparing for the conversion process to the Ellucian CRM platform with data clean up and business practices documentation. Assessment of reporting needs is ongoing.
- Supporting communications to alumni and friends for academic departments and for annual giving solicitations.
- 10% of Michigan Tech employees have donated $73,089 to the Campus Campaign.
- Held successful Traverse City Alumni event in conjunction with Traverse Connect ribbon cutting.
- The President's Hockey Skybox has resumed normal operation.
- Held inaugural virtual events Innovators in Industry series:
  - The Future of Autonomous Vehicles/Mobility
  - Computing in Perpetual Revolution
  - Entrepreneurship; Startups and Venture Capital
- Hosted representatives from the Thompson Foundation to visit with scholarship recipients.
● Hosted alumni and donors at Sherman Field at Kearly Stadium enjoying the Huskies Football home games.
● Launched fundraising initiative for 100 years of Men's Basketball to be celebrated in 2022.
● Held the PCA visit and induction ceremony.
● The alumni board met on campus and in person.
● Campus Master Plan alumni update via Zoom.
● Scheduled and executed first in-person corporate meetings since prior to the pandemic, with visits including key contacts at Whirlpool, ITC, Consumers Energy, Mannik & Smith, Engineering Society of Detroit, Rock Central, Marathon Petroleum, and LIFT.
● Facilitated engagement between 3M and Athletics, successfully resulting in 3M partnering with Hockey to sponsor backdrops for 2021-22 season streaming.
● Received gift from Ford Motor Company Fund to sponsor 2022 Winter Wonderhack hackathon.
● Supporting communications to alumni and friends for academic departments and for annual giving solicitations.
● The Alumni Engagement Office will host the traditional Commencement Reception for the newest class of graduates immediately following commencement on Sat Dec 18 in the multipurpose room of the SDC.
● GLI in December: The 56th Great Lakes Invitational looks a little different this year. The teams will play at two venues instead of one, and while Michigan Tech Alumni Engagement office will still host a pre-game social, it will be off site and also in two different locations before each game.

**Fundraising totals as of October 31, 2021**

$ 2,925,501 in planned gifts  
$ 1,179,069 in realized planned gifts  
$ 1,379,745 in major outright gifts and pledges  
$ 618,688 in annual gifts under $10,000  
$ 581,593 in corporate support  
$ 193,730 in foundation gifts

54 illustrations, proposals, and gift agreements were provided for donors  
24 executed gift agreements
D. Media Coverage
Media Report: Sept. 18 to Nov. 29, 2021
Michigan Technological University
Regular Meeting of the Board of Trustees
Dec. 17, 2021

Overview

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles</td>
<td>2,006</td>
</tr>
<tr>
<td>Total engagement</td>
<td>35,811</td>
</tr>
<tr>
<td>Average engagement</td>
<td>23</td>
</tr>
<tr>
<td>Journalist shares</td>
<td>305</td>
</tr>
<tr>
<td>Journalist reach</td>
<td>~ 5.13M</td>
</tr>
<tr>
<td>Average unique visitors per month (UVM)</td>
<td>~ 2.86M</td>
</tr>
<tr>
<td>Total UVM</td>
<td>~ 4.28B</td>
</tr>
</tbody>
</table>

Between Sept. 18 and Nov. 29, 2021, a total of 2,006 online articles mentioned Michigan Technological University:
Those 2,006 articles were shared, commented on, or liked social media more than 35,000 times, for an average engagement of 23 shares, comments, or likes per article:

Journalists shared the articles on Twitter 305 times, resulting in a reach of roughly 5.13 million people:
**News Highlights:**

**Research News**
Research by Sarah Hoy, Rolf Peterson, and John Vucetich (CFRES) into the effects of warmer summers on tick infestations in moose populations was covered in an [AP news article](https://www.apnews.com/) that was picked up by national and international outlets.

John Vucetich (CFRES) was interviewed about his new book, "Restoring the Balance," by [Psychology Today](https://www.psychologytoday.com/).

The installation of the first monitoring buoy in Grand Traverse Bay, a result of the partnership between Michigan Tech and Northwestern Michigan College, was covered by [9&10 News](https://www.9and10news.com/) and [The Ticker](https://www.theticker.com/).

Simon Cairn (GMES) was quoted in a [Washington Post](https://www.washingtonpost.com/) article on the erupting volcano on the Canary Island of La Palma.

**General News**
The Oct. 4 official opening of the Michigan Tech Grand Traverse Area research workspace was the focus of a [Traverse City Record-Eagle](https://www.record-eagle.com/) news story, which was also picked up by [Yahoo News](https://www.yahoo.com/). The event was also covered by [WWTV 9&10 News](https://www.wwtv.com/), the [Verified News Network](https://www.verifiednewsnetwork.com/), and [The Traverse City Ticker](https://www.thetravecityticker.com/).
Pasi Lautala (CEGE) was interviewed for an NBC News report on Amtrak’s plans to use the $66 billion in funding it receives from the newly passed federal infrastructure bill to advance rail projects.

The 32nd annual Parade of Nations was featured on WLUC TV6 and the Daily Mining Gazette.

Michigan Tech's international student population was mentioned in an MLive story regarding the global “talent war” for skilled workers with advanced degrees. Kellie Raffaelli was quoted discussing the H-1B work visa lottery system.
E. Employee Safety Statistics
### EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE

Jan 1 - October 31, 2020/2021

<table>
<thead>
<tr>
<th>Category</th>
<th>Years</th>
<th>Employee Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AFSCME</td>
</tr>
<tr>
<td></td>
<td>2020</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>2</td>
</tr>
<tr>
<td>Injury Only w/Medical - No Lost Time</td>
<td>2020</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>5</td>
</tr>
<tr>
<td>Lost Time Cases</td>
<td>2020</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>1</td>
</tr>
<tr>
<td>Restricted Work Cases</td>
<td>2020</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>8</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)</td>
<td>2020</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>73</td>
</tr>
<tr>
<td>Injury Lost Time 3</td>
<td>2020</td>
<td>273</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>30</td>
</tr>
<tr>
<td>Restricted Work Days 3</td>
<td>2020</td>
<td>180,498</td>
</tr>
<tr>
<td>Hours Worked</td>
<td>2021</td>
<td>190,799</td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2020</td>
<td>8.8%</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>9.7%</td>
</tr>
<tr>
<td>Lost Time Case Rate 1</td>
<td>2020</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>5.2</td>
</tr>
<tr>
<td>Frequency Rate 2 (Recordable)</td>
<td>2020</td>
<td>14.4</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>8.4</td>
</tr>
</tbody>
</table>

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

1. The Lost Time Case Rate is calculated by multiplying the number of Lost Time Cases by 200,000 then dividing by the labor hours at the University.
2. The Frequency Rate is calculated by multiplying the number of recordable cases by 200,000 then dividing by the labor hours at the University.
3. The number of days are total days for the life of the cases first reported during this period.
F. Disposal of Surplus property
<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/15/21</td>
<td>Portable Hydraulic Trainer</td>
<td>$202.50</td>
</tr>
<tr>
<td>10/14/21</td>
<td>Miscellaneous scrap metal, including the following:</td>
<td>$2,860.00</td>
</tr>
<tr>
<td></td>
<td>1999 Ford F350 4x4 Truck</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2000 Oldsmobile Intrigue GLS 4D Sedan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2000 Chevrolet Blazer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2006 GMC Sierra Truck, 2500HD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1994 Agco 4WD Tractor, Model 6105</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Utility Vehicle, John Deere Egator</td>
<td></td>
</tr>
<tr>
<td>10/20/21</td>
<td>Custom Built Micro-Milling Machine with Computer</td>
<td>$500.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$3,562.50</strong></td>
</tr>
</tbody>
</table>
XI. Other Business

XII. Date for Next Formal Meeting: February 25, 2022

XIII. Adjourn