CAMPUS FORUM

September 25, 2008
Strategic Plan Report
www.mtu.edu/stratplan

Goal 1. People
Attract and support world-class and diverse faculty, staff and student population.

Goal 2. Distinctive Education
Discovery based technological focus, sustainability, innovation.

Goal 3. Research / Scholarship / Creativity
World class, technological focus, economic sustainability.
## Fund Comparison

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>General Fund</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td>$ 0.3M</td>
<td>($ 0.5M)</td>
<td>$ --</td>
</tr>
<tr>
<td>Balance</td>
<td>($ 9.1M)</td>
<td>($ 9.6M)</td>
<td>($9.6M)</td>
</tr>
<tr>
<td><strong>Current Fund</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td>$ 1.5M</td>
<td>($ 0.7M)</td>
<td>$ 1.0M</td>
</tr>
<tr>
<td>Balance</td>
<td>$ 16.1M</td>
<td>$15.4M</td>
<td>$16.4M</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate</td>
<td>6,033</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate</td>
<td>981</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7,014</td>
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</table>
# New Student Profile

<table>
<thead>
<tr>
<th></th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT Composite</td>
<td>25.2</td>
<td>25.6</td>
<td>25.6</td>
</tr>
<tr>
<td>ACT Math</td>
<td>26.3</td>
<td>26.8</td>
<td>26.5</td>
</tr>
<tr>
<td>ACT English</td>
<td>23.9</td>
<td>24.2</td>
<td>24.4</td>
</tr>
<tr>
<td>High School Percentile</td>
<td>74.2</td>
<td>75.2</td>
<td>76.8</td>
</tr>
<tr>
<td>GPA</td>
<td>3.50</td>
<td>3.53</td>
<td>3.52</td>
</tr>
</tbody>
</table>
## Enrollment by Gender

<table>
<thead>
<tr>
<th>Gender</th>
<th>Fall 2008</th>
<th>Change</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female undergraduate</td>
<td>1410</td>
<td>64</td>
<td>23.4</td>
</tr>
<tr>
<td>Female graduate</td>
<td>307</td>
<td>6</td>
<td>31.3</td>
</tr>
<tr>
<td>Female subtotal</td>
<td>1,717</td>
<td>70</td>
<td>24.5</td>
</tr>
<tr>
<td>Male undergraduate</td>
<td>4,623</td>
<td>131</td>
<td>76.6</td>
</tr>
<tr>
<td>Male graduate</td>
<td>674</td>
<td>75</td>
<td>68.7</td>
</tr>
<tr>
<td>Male subtotal</td>
<td>5,297</td>
<td>206</td>
<td>75.5</td>
</tr>
</tbody>
</table>
U.S. News Best Colleges Ranking (Undergraduate)

- Ranked 121st among 262 national universities, both public and private.

- Ranked 60th among 162 public national universities.

- Environmental Engineering ranked 13th in the nation.
FY07 NSF Research Rankings

- 163rd out of 662 Nationally
- 169th in Federal research based on $55.3M in science and engineering research expenditures.
- $60.3M in total research expenditures in FY08
NSF NATIONAL RANK

Research Expenditure ($ Millions)

Fiscal Year

National Rank

Expenditures
All-Rank
Public-Rank
Percent Increases in Research Expenditures

<table>
<thead>
<tr>
<th>University</th>
<th>Percent Increase FY06-FY07</th>
</tr>
</thead>
<tbody>
<tr>
<td>UM</td>
<td>0</td>
</tr>
<tr>
<td>MSU</td>
<td>0</td>
</tr>
<tr>
<td>WSU</td>
<td>50</td>
</tr>
<tr>
<td>MTU</td>
<td>30</td>
</tr>
</tbody>
</table>
Michigan Center of Energy Excellence

- Development of Commercial Cellulosic Ethanol Plant
- $20M MEDC Grant for the Center; $2M for Research
- Frontier Partners
  - Mascoma Corporation
  - J.M. Longyear
- Research Support
  - Michigan Technological University
  - Michigan State University
2008/09 Tenured/Tenure Track Faculty Hires-Projections

• 29 Tenured/Tenure Track
  ✓ 12 – College of Engineering
  ✓ 13 – College of Sciences & Arts
  ✓ 1 – School of Business
  ✓ 1 – School of Forestry
  ✓ 2 – School of Technology
STRATEGIC FACULTY HIRING INITIATIVE

Named Chairs Being Awarded

• Robbins Chairs
  – John Sutherland – Sustainable Manufacturing
  – Dave Karnosky – Sustainable Management of the Environment
  – Dave Shonnard – Sustainable Use of Materials
## Campaign Total to Date

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>FY09 gifts</td>
<td>$1.61</td>
</tr>
<tr>
<td>FY08 gifts</td>
<td>25.95</td>
</tr>
<tr>
<td>FY07 gifts</td>
<td>29.49</td>
</tr>
<tr>
<td>FY09 corporate research</td>
<td>1.09</td>
</tr>
<tr>
<td>FY08 corporate research</td>
<td>6.53</td>
</tr>
<tr>
<td>FY07 corporate research</td>
<td>6.21</td>
</tr>
<tr>
<td>Selected FY06 gifts</td>
<td>12.29</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$82.87</strong></td>
</tr>
<tr>
<td><strong>(discounts of Planned Gifts)</strong></td>
<td><strong>-5.68</strong></td>
</tr>
<tr>
<td><strong>Net Total</strong></td>
<td><strong>$77.19</strong></td>
</tr>
</tbody>
</table>

As of August 31, 2008
Priority

Developing Resources to Support Faculty, Students, Staff
AQIP
(Academic Quality Improvement Program)

• University Accreditation Process

• Systems Portfolio
  – Describes Fundamental Organizational Systems
  – Covers the Nine AQIP Categories
  – Focus Groups Consisting of Faculty and Staff

AQIP Projects
  – Carbon Neutral (Peg Gale, Chair)
  – Learning Space Enhancement (Chelley Vician, Chair)
  – Comprehensive Space Inventory Database (Walt Milligan, Chair)
  – Faculty Diversity Committee (Bill Bulleit, Chair)
LEAN

- Catering/Ordering Process
- Recipe/Order Taking Consistency
- Room Setup and Cleanliness Standards
- Process for Training New Catering Students
- RSP’s Internal Processing of Modifications
- Financial Close-out of Sponsored Projects
CAPITAL PROJECTS
• McNair Hall
• MUB Third Floor Renovation
• KRC
• EERC Patio/Computer Center Roof
• Physics Labs
• Great Lakes Research Center?
• Fisher II?
Athletic Academic Achievement Award

Division II Athletic Directors Association Academic Achievement Award

- Michigan Tech Ranked #1 in the Nation
  - 97 Michigan Tech Athletes received awards
Conceptual design
Resident Apartments

Architect Interviews on September 29 and 30
UPPCO Building Renovation

- $3M Economic Development Administration
- $500k Michigan Economic Development Corporation
- LEED Certification
# Metric Goals

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
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<tbody>
<tr>
<td></td>
<td>2006</td>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>Freshman ACT</td>
<td>25.2</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>PhDs Awarded</td>
<td>41</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Sponsored Program Awards</td>
<td>43.6M</td>
<td>76.6M</td>
<td></td>
</tr>
<tr>
<td>Endowment Value</td>
<td>66M</td>
<td>200M</td>
<td></td>
</tr>
</tbody>
</table>
Number of PhDs Awarded, Goal: 69

Fiscal Year


Number of PhDs Awarded

38 42 44 41 65
Sponsored Programs New Awards

Amount of Awards in Millions, Goal: $76.6M

- 2003-04: $28.72M
- 2004-05: $37.34M
- 2005-06: $43.64M
- 2006-07: $49.96M
- 2007-08: $41.33M

Fiscal Year
Endowment Value

Endowment Balance as of August 31, 2008: $77.5M

Endowment Balance in Millions, Goal: $200M

- 2003-04: $51.7M
- 2004-05: $58.65M
- 2005-06: $64.8M
- 2006-07: $78.9M
- 2007-08: $79.3M

Fiscal Year
FY2009 Critical Success Factors

- Enhance & Restructure Compensation
- Continue Faculty Hiring in Strategic Areas
- Provide Training & Support for Deans & Chairs
- Attain our Metric Goals
- Achieve Enrollment Target
- Increase Visibility
- Launch New University Web Site
- Practice Sound Financial Management
- Execute Plans for High-Impact Capital Projects
Mission

We prepare Students to Create the Future
Strategic Plan

• Great Faculty, Staff and Students
• Distinctive Programs
• Innovative Research Development Scholarship and Creativity
The Strategic Objective

Michigan Tech will be a Premier Technological University for the World
QUESTIONS