CAMPUS FORUM

April 24, 2012
Strategic Plan

• Approved by Board of Control on July 16, 2009

✓ Major Goals Remain Same
  ➢ People
  ➢ Distinctive Education
  ➢ Research/Scholarship/Creativity

• http://www.mtu.edu/stratplan/
Strategic Plan Review Timeline, 2012

Preliminary

- Executive Team – January, 2011
- Senate Executive Committee – February 9, 2011
- VPAdmin Direct Reports – February 16, 2011
- VPR Direct Reports – February 21, 2011
- Academic Deans Council – February 25, 2011
- USG/GSG – March 3, 2011
- VPSA, CFO, and VPGR Direct Reports – March 3, 2011
- Senate Review of Existing Plan - March 3, 2011
- Staff Council – May 18, 2011

Review

- Executive Team Retreat – June 20, 2011
- Public Comment Period – September, 2011
- Deans Retreat to Review/Revise – September 2011
- Exec Team Retreat to Review/Revise Dean’s Revision – October, 2011
- Initial Meeting with Chairs and Deans to Review Deans/ET Draft – October, 2011
- Informal Review with BOC – December, 2011
- Campus Comment Period – January-February, 2012
- Consolidation of Comments - February, 2012
- BOC Review – March, 2012
- Final BOC Approval – April, 2012
Vision for 2035:

Premier Technological Research University of International Status
Portrait of Michigan Tech
2035
Strong Partner in Change for Michigan, the US, and the World

1. Internationally competitive faculty – 40% in endowed positions
2. Student body of 8750-$500 million scholarship endowment
   - 5750 Undergraduates
   - 2000 Masters
   - 1000 PhD students
   - 40% Female and Top 10 for engineering undergraduate degrees granted to women
3. Global literacy and communication skills in a variety of media as a prominent part of education
4. Transformational education in a residential based technologically rich learning environment
5. Recognized nationally and internationally for research development and innovation
6. Sustainable financial model with less reliance on state funding
7. University culture is entrepreneurial with high quality services that are efficient, responsive and sustainable
8. Year-round calendar
ENROLLMENT
FINANCES
## CURRENT FUND FY12
(in Thousands)

<table>
<thead>
<tr>
<th></th>
<th>Original Projection</th>
<th>3rd Qtr Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$ 250,574</td>
<td>$ 252,233</td>
</tr>
<tr>
<td>Expense</td>
<td>$(250,531)</td>
<td>$(252,911)</td>
</tr>
<tr>
<td>Net Income</td>
<td>$ 43</td>
<td>$(678)</td>
</tr>
<tr>
<td>Current Fund Balance</td>
<td>$ 16,123</td>
<td>$ 15,402</td>
</tr>
</tbody>
</table>

Note: Current Fund includes General Fund, Designated Fund, Auxiliaries, Retirement and Insurance, and the Expendable Restricted Funds.
## CURRENT FUND BALANCES
(in Thousands)

<table>
<thead>
<tr>
<th></th>
<th>Balance 06/30/10</th>
<th>Balance 06/30/11</th>
<th>Projected Balance 06/30/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CURRENT FUND BALANCE</td>
<td>$15,313</td>
<td>$16,080</td>
<td>$15,402</td>
</tr>
<tr>
<td>LEGALLY RESTRICTED FUNDS</td>
<td>(2,692)</td>
<td>(2,809)</td>
<td>(3,967)</td>
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<tr>
<td>UNRESTRICTED CURRENT FUND BALANCE</td>
<td>$12,621</td>
<td>$13,271</td>
<td>$11,435</td>
</tr>
</tbody>
</table>
FY 04 to FY 11 General Fund Scholarship and Grant Expenditures

General Fund Scholarship and Grant Expenditures

- FY04: $10,002,100.89
- FY05: $11,249,719.22
- FY06: $11,204,679.23
- FY07: $13,145,437.86
- FY08: $15,825,979.48
- FY09: $19,247,012.97
- FY10: $21,086,327.91
- FY11: $22,729,724.78

Michigan Tech
Create the Future
Financial Aid Eliminations
(Since 2008-09)

Federal:
• American Competitiveness Grant (ACG)
• National Science and Mathematics Access to Retain Talent Grant (SMART)
• Summer Pell Grant program
• Robert C. Byrd
Financial Aid Eliminations
(Since 2008-09)

State:
• Michigan Work Study
• Michigan Work Study-Graduate
• Michigan Promise
• Michigan Educational Opportunity Grant (MEOG)
• Michigan Adult Part Time Grant
Financial Aid Reductions
(Since 2008-09)

State:

• Michigan Competitive
Financial Rating

• Aa3 – Financial Rating by Moody’s Investors Services

(Issued March 28, 2012)
FY13 Budget

• Will not be approved at this Board meeting
STATE BUDGET
Three Major Uncertainties

• Actual Appropriation

• Tuition Cap

• Proposed Changes in Tuition Calculation
## Proposed 2013 State Appropriation

<table>
<thead>
<tr>
<th></th>
<th>Governor</th>
<th>House</th>
<th>Senate</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base</strong></td>
<td>$40.73M</td>
<td>$40.73M</td>
<td>$41.34M</td>
<td>$40.73M</td>
</tr>
<tr>
<td><strong>Formula/Incentive</strong></td>
<td>$803k</td>
<td>$1.3M</td>
<td>$441k</td>
<td></td>
</tr>
<tr>
<td><strong>Gross Appropriation</strong></td>
<td>$41.53M</td>
<td>$42.01M</td>
<td>$41.79M</td>
<td>$40.73M</td>
</tr>
<tr>
<td><strong>Percent Change from Current Appropriation</strong></td>
<td>+2%</td>
<td>+3.1%</td>
<td>+2.6%</td>
<td></td>
</tr>
<tr>
<td><strong>Tuition Cap</strong></td>
<td>4%</td>
<td>1.2%</td>
<td>3.5%</td>
<td></td>
</tr>
</tbody>
</table>
Tuition & Fee Calculation Change?

Now: Most Common In-State Rate

Proposed: Average In-State Rate
Tuition Billing

• By Credit or 12-18 credits?

• Engineering & Computer Science Tuition and Fee to “Tuition”
Michigan Public School Employees’ Retirement System (MPSERS)

<table>
<thead>
<tr>
<th></th>
<th>Payroll</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY97</td>
<td>$15.2M</td>
<td>$2.7M</td>
</tr>
<tr>
<td>FY12</td>
<td>$10.5M</td>
<td>$5.6M</td>
</tr>
</tbody>
</table>
Michigan Public School Employees' Retirement System (MPSERS)
Health Care

• Benefits Liaison Group (BLG), plus President, and Vice President for Research working with Aon Hewitt on 3-5 year strategy for 2013 and beyond.
  - Met in January & March
  - Planning Session in May to develop a multi-year road map.
3rd Quarter, FY2012 Awards

3rd Quarter, FY2012

Awards FY12
+ 5.5%

Awards FY11

Proposals FY12
+ 5.4%

Proposals FY11

Number

0 100 200 300 400 500 600 700 800 900

MichiganTech
3rd Quarter FY2012 Sponsored Program Award Update

• Both numbers of proposals and awards increased by about 5.5% through the 3rd Quarter of FY2012 over the same point in FY2011.

• Awarded funds, though decreased by 30.6% through the 3rd Quarter of FY2012 compared to FY2011.
3rd Quarter FY2012 Update

Intellectual Property

• Invention disclosures through the 3rd Quarter are up 21.9% over FY2011 to a total of 39.
• Patents file or issued total 16, 6.7% over FY2011.
• There were 11 executed license agreements, up 22.2% over FY2011.
• Royalty income was $210,337, down 6.3% from FY2011.
ACADEMICS
Tenure and Promotion 2012

12 promotions to Associate Professors with tenure (4 women)
9 promotions to Full Professor (2 women)
2 tenured at current rank
3 appointments with tenure
2 promotions to Senior Lecturer
## Associate Professors with Tenure

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simon Carn</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
</tr>
<tr>
<td>Alexsey Smirnov</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
</tr>
<tr>
<td>Reza Shahbazian Yassar</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
</tr>
<tr>
<td>Shari Stockero</td>
<td>Cognitive &amp; Learning Sciences</td>
</tr>
<tr>
<td>Ali Ebnenasir</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Robert Pastel</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Marika Seigel</td>
<td>Humanities</td>
</tr>
<tr>
<td>Melissa Keranen</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Samuel Sweitz</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Rodney Chimner</td>
<td>School of Forest Resources &amp; Environmental Science</td>
</tr>
<tr>
<td>Oliver Gailing</td>
<td>School of Forest Resources &amp; Environmental Science</td>
</tr>
<tr>
<td>Audrey Mayer</td>
<td>School of Forest Resources &amp; Environmental Science</td>
</tr>
</tbody>
</table>
Full Professor

Andrew Burton  SFRES
Sean Kirkpatrick  Biomedical Engineering
Faith Morrison  Chemical Engineering
Judith Perlinger  Civil & Environmental Engineering
David Watkins  Civil & Environmental Engineering
Jaroslaw Drelich  Materials Science & Engineering
Yun Hang Hu  Materials Science & Engineering
Dean Johnson  School of Business & Economics
Christopher Webster  SFRES
Tenured at Current Rank

Associate Professor with Tenure:
• Paul Ward  Cognitive & Learning Sciences

Professor with Tenure:
• Saeid Nooshabadi  Electrical and Computer Engineering
Promotion

Promotion from Senior Lecturer to Principal Lecturer:
• Glen Archer Electrical & Computer Engineering

Promotion from Lecturer to Senior Lecturer:
• Philip Kendall Mathematical Sciences
• Emanuel Castro Oliveira School of Business & Economics
## Tenured and Tenure Track Faculty Growth

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2009</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>310</td>
<td>329</td>
<td>354</td>
</tr>
</tbody>
</table>
Faculty Hires Over Past Five Years

- net increase since 2007-08: 44
- total new faculty since 2007-08 (136/354 => 38%): 136
- total SFHI since 2008-09: 23

- -> 38% of all current faculty has been hired in the last 5 years
- -> 17% of all new hires are SFHI
Graduate Student Growth

![Bar chart showing graduate student growth from 2007-08 to 2011-12. The chart distinguishes between Doctor, Master, and Graduate Non-Degree students.]
New Degree Programs

• Accelerated Master’s Program Framework
• Non-Departmental Ph.D. Program in Biochemistry and Molecular Biology
• Master’s Program and Accelerated Master’s Program in Biomedical Engineering
• Master of Science in Medical Informatics
• Bachelor of Arts in Physics
• Bachelor of Arts in Physics with a Concentration in Secondary Education
• Bachelor of Science in Engineering Management
• Bachelor of Science in Engineering (meets requirements for a mining engineering degree)
Higher Learning Commission (HLC)

✓ HLC is accreditation agency for universities nationwide
✓ Michigan Tech’s Quality Checkup Visit occurred in March
✓ Michigan Tech meets all five criteria for accreditation, as well as Federal Compliance Requirements
# AQIP

## Higher Learning Commission

### Active Action Projects

<table>
<thead>
<tr>
<th>Title</th>
<th>Title AQIP</th>
<th>Kickoff Date</th>
<th>Expected Completion Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender Diversity</td>
<td>Increase Gender Diversity of Faculty &amp; Students</td>
<td>Sept 20, 2010</td>
<td>Sept 20, 2012</td>
<td>Active</td>
</tr>
<tr>
<td>Professional Development</td>
<td>Create a systematic employee development process</td>
<td>October 12, 2010</td>
<td>May 31, 2012</td>
<td>Active</td>
</tr>
<tr>
<td>Student Success</td>
<td>Improving Undergraduate Student Success</td>
<td>September 2011</td>
<td>September 2012</td>
<td>Active</td>
</tr>
</tbody>
</table>
Professional Development Initiatives

• Professional Development Program
  – Started in October 2010
  – For Departmental Coordinators and Assistants
  – First Cohorts to Graduate in June 2012
    • Shannon Brodeur
    • Alane Isaacson
    • Amie Ledgerwood
    • Patti Myllyoja
    • Renee Ozanich
    • Lois Sedar
    • Ginger Sleeman
    • Heather Soukas
Professional Development Initiatives

• Professional Development Day
  – May 10, 2012
  – 32 Sessions Available
Professional Development Initiatives

Federal Mediation & Conciliation Service Grant

• Improve labor-management relations and communication by implementing a “Lean” culture model
Federal Mediation & Conciliation Service Grant

• Grant Supports 2 cohorts for in-depth training
  – Lean Facilitators (half union; half management)
    • Maureen Anton          Carole Noonan
    • Derrick Butkovich       Kari Pietrzyk
    • Laura Givens            Julie Ross
    • Shellie Hubert          Kerri Sleeman
    • Alane Isaacson          Marty Smith
    • Amie Ledgerwood         Shane Sullivan
    • Tanya Maki              Kathy Wardynski
    • Rhonda McClellen        Rachel Wussow
  – Lean Implementation Leaders
    • Karla Aho              Jarrod Karau
    • Julie Blair            Gregg Richards
    • Wendy Jones            Cayce Will
    • Jada Gullstrand
Professional Development Initiatives

Supervisor Training Modules

• Managers and Supervisors
  – Sponsored by Affirmative Action and Human Resources
  – Began in March 2012

• Six Modules
  – Topics will range from recruiting and hiring to maximizing performance to day-to-day supervision
AQIP Project: Increasing Gender Diversity of Faculty & Students

Five interrelated projects:

1. Communication campaign: Develop and communicate gender/diversity goals to all stakeholders.
2. Improve brand awareness of Michigan Tech among females in external environment.
3. Improve processes for recruiting and mentoring female faculty (ADVANCE)
4. Improve processes for recruiting female students.
5. Improve processes for advising and mentoring female students.
Undergraduate gender diversity recruitment

- Female undergraduate marketing campaign to launch summer 2012.

- Bought over 25,000 names of high school junior females nationwide interested in Michigan Tech programs for targeted, segmented marketing.

- Offering bi-annual Michigan Tech Leadership Institute for high school junior women—24 participating in May.

- Regional Admissions Managers focusing on recruitment outreach specifically to women.
College of Engineering

Dr. William M. Worek

- July 1 Appointment
- Title includes Dave House Professor
- Fellow of ASME and American Society of Heating, Refrigerating and Air-Conditioning Engineers
- Former director of UIC’s Energy Resources Center
School of Forest Resources and Environmental Science

Dr. Terry Sharik

- July 1 Appointment
- Fellow-Society of American Foresters
- Former Head of Dept. of Forest Resources and Environment and Society-Utah State
- Former professor at Michigan Tech and Senate President
School of Business & Economics

• In Process
Great Lakes Research Center

Guy Meadows

• Director of Great Lakes Research Initiatives

• Former Professor of Applied Ocean Physics and Director of the Ocean Engineering Laboratory at the University of Michigan

• Served as Academic Director of the College’s M-STEM Academy

• June 1 appointment
CAPITAL CAMPAIGN
MICHIGAN TECHNOLOGICAL UNIVERSITY
Generations of Discovery
Campaign Progress Summary
as of April 17, 2012

Alumni & Friends $113,848,243
Corporations 47,881,359
Private Foundations 2,581,575
Gifts-in-Kind 5,884,833
Grand Total $170,196,010
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facilities</td>
<td>$7.2M</td>
</tr>
<tr>
<td>Scholarships/Fellowships</td>
<td>26.6M</td>
</tr>
<tr>
<td>Chairs &amp; Professorships</td>
<td>34.9M</td>
</tr>
<tr>
<td>Depts. Program Support/Ops.</td>
<td>50.7M</td>
</tr>
<tr>
<td>Unrestricted or undesignated</td>
<td>5.2M</td>
</tr>
<tr>
<td>Research</td>
<td>45.6M</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$170.2M</strong></td>
</tr>
</tbody>
</table>

*Michigan Technological University*

*Generations of Discovery Campaign Breakdown*

*As of April 17, 2012*
Great Lakes Research Center
(Your Name Here)

It’s Ours!
Dedication
- August 2
Commencement Speaker

Martha Sullivan ’85
President and COO
Sensata Technologies
Questions