Fall 2005 CAMPUS FORUM

September 14, 2005

Be smart.
FY ’05 BUDGET DESIGN CRITERIA

• Realistic Revenue Estimation
• Reduce Expenses
• Buy Time
• Not Reduce Academic Budgets
FY ‘05

- Reinvesting the Retirement & Insurance Fund
- Implementing an E-Commerce Plan
- Moved Distance Learning to General Fund Budget
- Implemented Cost Controls
- Streamlined Administrative Structure
<table>
<thead>
<tr>
<th>Fund Type</th>
<th>FY2004</th>
<th>FY2005</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Fund</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td>($ 2.5M)</td>
<td>$ 1.9M</td>
</tr>
<tr>
<td>Balance</td>
<td>($11.9M)</td>
<td>($10.0M)</td>
</tr>
<tr>
<td><strong>Current Fund</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td>$ 1.5M</td>
<td>$ 3.3M</td>
</tr>
<tr>
<td>Balance</td>
<td>$ 10.1M</td>
<td>$13.4M</td>
</tr>
</tbody>
</table>
FY’ 05
GENERAL FUND vs BUDGET

• Tuition/Fees $900K
• Indirect Cost Recoveries $300K
• Utilities under Budget $600K
FY’ 04-05 CURRENT FUND VARIANCE

- Research Revenues $1.7M
- Auxiliaries Revenues $1.4M
- Financial Aid, Savings $600K
FY’ 05
State Executive Order Reduction

Announced ($855K)

Actual ($385K)
DESIGN CRITERIA FOR OUR CURRENT BUDGET

• Continued Belt Tightening
• Increase Revenue
• Compensation/Rewards
• Balancing Revenue & Expenses
• Securing Our Financial Future
## Freshman and Transfer Applications

<table>
<thead>
<tr>
<th></th>
<th>2004</th>
<th>2005</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>3460</td>
<td>4080</td>
<td>18</td>
</tr>
<tr>
<td>International</td>
<td>384</td>
<td>483</td>
<td>26</td>
</tr>
<tr>
<td>Minority 1st Year</td>
<td>390</td>
<td>437</td>
<td>12</td>
</tr>
<tr>
<td>Female</td>
<td>816</td>
<td>1016</td>
<td>24</td>
</tr>
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</table>
Freshmen Fall Enrollments
1983, 1990 - 2005

<table>
<thead>
<tr>
<th>Year</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>1,328</td>
</tr>
<tr>
<td>2004</td>
<td>1,227</td>
</tr>
<tr>
<td>2003</td>
<td>1,187</td>
</tr>
<tr>
<td>2002</td>
<td>1,190</td>
</tr>
<tr>
<td>2001</td>
<td>1,200</td>
</tr>
<tr>
<td>2000</td>
<td>1,275</td>
</tr>
<tr>
<td>1999</td>
<td>1,155</td>
</tr>
<tr>
<td>1998</td>
<td>1,204</td>
</tr>
<tr>
<td>1997</td>
<td>1,261</td>
</tr>
<tr>
<td>1996</td>
<td>1,076</td>
</tr>
<tr>
<td>1995</td>
<td>1,074</td>
</tr>
<tr>
<td>1994</td>
<td>1,028</td>
</tr>
<tr>
<td>1993</td>
<td>1,051</td>
</tr>
<tr>
<td>1992</td>
<td>1,272</td>
</tr>
<tr>
<td>1991</td>
<td>1,295</td>
</tr>
<tr>
<td>1990</td>
<td>1,166</td>
</tr>
<tr>
<td>1983</td>
<td>1,448</td>
</tr>
</tbody>
</table>
## FY’ 06 ENROLLMENT
### On Campus

<table>
<thead>
<tr>
<th></th>
<th>2004</th>
<th>2005</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>5,349</td>
<td>5,534</td>
<td>185</td>
</tr>
<tr>
<td>Graduate</td>
<td>795</td>
<td>873</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>6,144</td>
<td>6,407</td>
<td>263</td>
</tr>
</tbody>
</table>
FY ’06 Fall Tuition Revenue

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>$25,572,111</td>
</tr>
<tr>
<td>Fall 2005 Billings</td>
<td>$25,670,678</td>
</tr>
<tr>
<td>Variance</td>
<td>$98,567</td>
</tr>
</tbody>
</table>
CAPITAL OUTLAY MAINTENANCE

- Central Utility Plant
- Fisher Hall Renovation
- Chemical Science Renovation
- Roof Replacements
- Power Distribution Replacements
- Fire Alarm Replacements
## BASIC STATE FUNDING FORMULA

<table>
<thead>
<tr>
<th>Enrollments</th>
<th>Total</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enrollment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Undergraduate</td>
<td>$11,641,725</td>
<td></td>
</tr>
<tr>
<td>• Graduate</td>
<td>1,329,176</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$12,970,901</td>
<td>27.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Total</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Associate</td>
<td>156,212</td>
<td>0.2%</td>
</tr>
<tr>
<td>• BS</td>
<td>24,151,431</td>
<td>50.3%</td>
</tr>
<tr>
<td>• MS/PhD</td>
<td>1,198,796</td>
<td>2.5%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$25,506,439</td>
<td>53.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Research</th>
<th>Total</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9,499,090</td>
<td>19.8%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$47,976,430</td>
<td></td>
</tr>
</tbody>
</table>
State Research and Graduate Education Formula Funding

- Graduate Enrollment $1,329,176
- Graduate Degrees $1,198,796
- Research $9,499,090

TOTAL $12,027,062
2005
Two Decades into
Michigan Technological University’s Second Century:
A Long-range Plan

July 23, 1984
• Priorities of the Michigan Tech 1984 Plan
  ➢ People
  ➢ Cultural Environment
  ➢ Buildings
  ➢ Equipment and Services
Second Century Plan
Faculty and Graduate Teaching Assistants

<table>
<thead>
<tr>
<th></th>
<th>Actual</th>
<th>Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall 1983</td>
<td>Fall 2005</td>
</tr>
<tr>
<td>Faculty</td>
<td>362</td>
<td>468</td>
</tr>
<tr>
<td>Graduate School GTA’s</td>
<td>48</td>
<td>___</td>
</tr>
<tr>
<td>TOTAL</td>
<td>410</td>
<td>468</td>
</tr>
</tbody>
</table>

*All full- and part-time professors, associate professors, assistant professors, instructors, lecturers and budgeted teaching assistants, but not coaches.
<table>
<thead>
<tr>
<th></th>
<th>Actual Fall 1983</th>
<th>Projected Fall 2005</th>
<th>Actual Fall 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$59</td>
<td>$100</td>
<td>$111</td>
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</tbody>
</table>
Enrollment of Michigan Technological University 1984 Plan to Present

<table>
<thead>
<tr>
<th></th>
<th>Actual Fall 1983</th>
<th>Projected Fall 2005</th>
<th>Actual On Campus Fall 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Students</td>
<td>7,414</td>
<td>6,550</td>
<td>6,407</td>
</tr>
<tr>
<td>Undergrads</td>
<td>7,084</td>
<td>5,850</td>
<td>5,534</td>
</tr>
<tr>
<td>Graduates</td>
<td>330 (4%)</td>
<td>700 (11%)</td>
<td>873 (14%)</td>
</tr>
</tbody>
</table>
Michigan Technological University
Current Fund State Appropriations and Tuition and Fee Revenues
in Constant 2004-05 Dollars
Fiscal Years 1960-61 through 2004-05

Revenue (in Millions)

Fiscal Year
1960-61
1964-65
1969-70
1974-75
1979-80
1984-85
1989-90
1994-95
1999-00
2004-05

State Appropriations
Tuition & Fees
Net Tuition & Fees
## Total Research
(Millions)

<table>
<thead>
<tr>
<th></th>
<th>Fall 1983</th>
<th>Projected Fall 2005</th>
<th>Actual Fall 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ca. $10.5</td>
<td>$40.0</td>
<td>$41.2</td>
</tr>
</tbody>
</table>
Federal & Total Research Expenditures

Millions

$45
$40
$35
$30
$25
$20
$15
$10
$5
$0


Federal
Total
Interdisciplinary Research

1984

- Materials and Processing
- Biotechnology
- Natural Resource Technologies
- Environmental Engineering & Science
- Manufacturing Technology
- Management Strategies for research and development in manufacturing
- Scientific and Technical Communication
- Electrical Engineering
- Others not yet envisioned
### Interdisciplinary Research

#### 2005

<table>
<thead>
<tr>
<th>Institute</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biotechnology Research Center</td>
<td>$1.9M</td>
</tr>
<tr>
<td>Ecosystem Science Center</td>
<td>3.1</td>
</tr>
<tr>
<td>Remote Sensing Institute</td>
<td>1.4</td>
</tr>
<tr>
<td>Sustainable Futures Institute</td>
<td>1.6</td>
</tr>
<tr>
<td>Computational Science &amp; Engrg. Institute</td>
<td>0.5</td>
</tr>
<tr>
<td>Keweenaw Research Center</td>
<td>2.6</td>
</tr>
<tr>
<td>Institute of Engineering Materials</td>
<td>1.8</td>
</tr>
<tr>
<td>Institute of Materials Processing</td>
<td>0.7</td>
</tr>
</tbody>
</table>
• People
• Thought
• Action
Building Greatness Is:

- Visceral
- Sustained Process
- Cumulative
  - each graduate
  - each scientific contribution
  - each scholarly work
  - each tenure decision
Core Principles

The success of our students will always be the most important measure of our success.
Core Principle

Engineering, science and technology, and the business of technology, are the focus of our university enhanced by vital programs that contribute to the cultural development, social skills and well-rounded education of our students.
Core Principles

Everyone’s contribution to our success is needed, and will be valued and rewarded.
Core Principles

Hallmarks of this University

➢ Creativity and Leadership
➢ Research
➢ Ethics
➢ Sustainability
➢ Diversity
➢ Quality of Life
PRIORITIES

• Diversity
Hispanic American Enrollment

Source: 2004-05 MTU Fact Book p. 69
Female Enrollment

Source: 2004-05 MTU Fact Book p. 61 36
ARROGANCE.  
IGNORANCE.  
PREJUDICE.  
What are you bringing to the classroom?

The nationally renowned University of Michigan Center for Research Learning and Teaching (CRLT) Theater Troupe will perform three interactive vignettes on Michigan Tech's campus. These provocative performances use current research about teaching, learning and diversity in academia to spark lively conversations about pedagogy and inclusion in the classroom and at the institution.

For Students, Faculty & Staff: Gender and Race in the Classroom  
September 15th  
3:30-5:30 pm  
MUB Ballroom  
Pizza served following performance

For Faculty & Graduate Students: The Faculty Meeting  
September 16th  
8:15-10:00 am  
MUB Ballroom

15 Minutes - Faculty Mentoring  
September 16th  
3:00-5:00 pm  
MUB Ballroom

These performances are sponsored by Educational Opportunity and generously funded by Kimberly-Clark. Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.
PRIORITIES

- Diversity
- Compensation
PRIORITIES

- Diversity
- Compensation
- Academic Program Support
OUTSOURCING INNOVATION

SPECIAL REPORT First came manufacturing. Now companies are farming out R&D to cut costs and get new products to market faster. Are they going too far?

BY PETE ENGARDIO AND BRUCE EHINHORN (P. 84)
PRIORITIES

- Diversity
- Compensation
- Academic Program Support
- Recruiting and Marketing
PRIORITIES

• Diversity
• Compensation
• Academic Program Support
• Recruiting and Marketing
• Financial Security
Financial Security

- Balanced Budget
- Absorb “Shocks”
- Program Drive Budget
- Prepare University for Fund Raising Campaign
Transfer of Endowed & Total Dollars from the Michigan Tech Fund

![Bar chart showing the transfer of endowed and total dollars from the Michigan Tech Fund in years 2000 to 2005. The chart indicates significant fluctuations with peaks in 2000 and 2005.](image-url)
PRIORITIES

- Diversity
- Compensation
- Academic Program Support
- Recruiting and Marketing
- Financial Security
- Review Strategic Plan
Planning Committees

- Auxiliary Operations Review Group
- Blue Ribbon Committee on Summer/Distance/Professional Programs
- Blue Ribbon Information Technology Needs Committee
- Central Computing Funding Practices Review Task Force
- Cherry Commission Community Group
- Committee to Review Graduate School
- Community Marketing Group
- Gramm Leach Bliley Act Coordination Group
- Marketing Advisory Board
- New Media Technology Task Force
- Presidential Committee to Enhance Campus and Community
- Recruiting & Enrollment Coordination Team
- Recruiting and Marketing
- TECH Talking about Responsible Relationships (TECHTARR)
- Technology Review Group
- Top 50 Committee
- Tuition & Financial Aid Task Force
- University Student Commission
Questions?

Static happens.
Undergraduate Application and Deposit Increases

<table>
<thead>
<tr>
<th></th>
<th>Applications</th>
<th>Deposits</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>18.7%</td>
<td>8.8%</td>
</tr>
<tr>
<td>International</td>
<td>25.8%</td>
<td>74.2%</td>
</tr>
<tr>
<td>Minority 1st Year</td>
<td>12.1%</td>
<td>34.7%</td>
</tr>
<tr>
<td>Female</td>
<td>24.5%</td>
<td>2.8%</td>
</tr>
</tbody>
</table>