

# CAMPUS FORUM

September 21, 2010

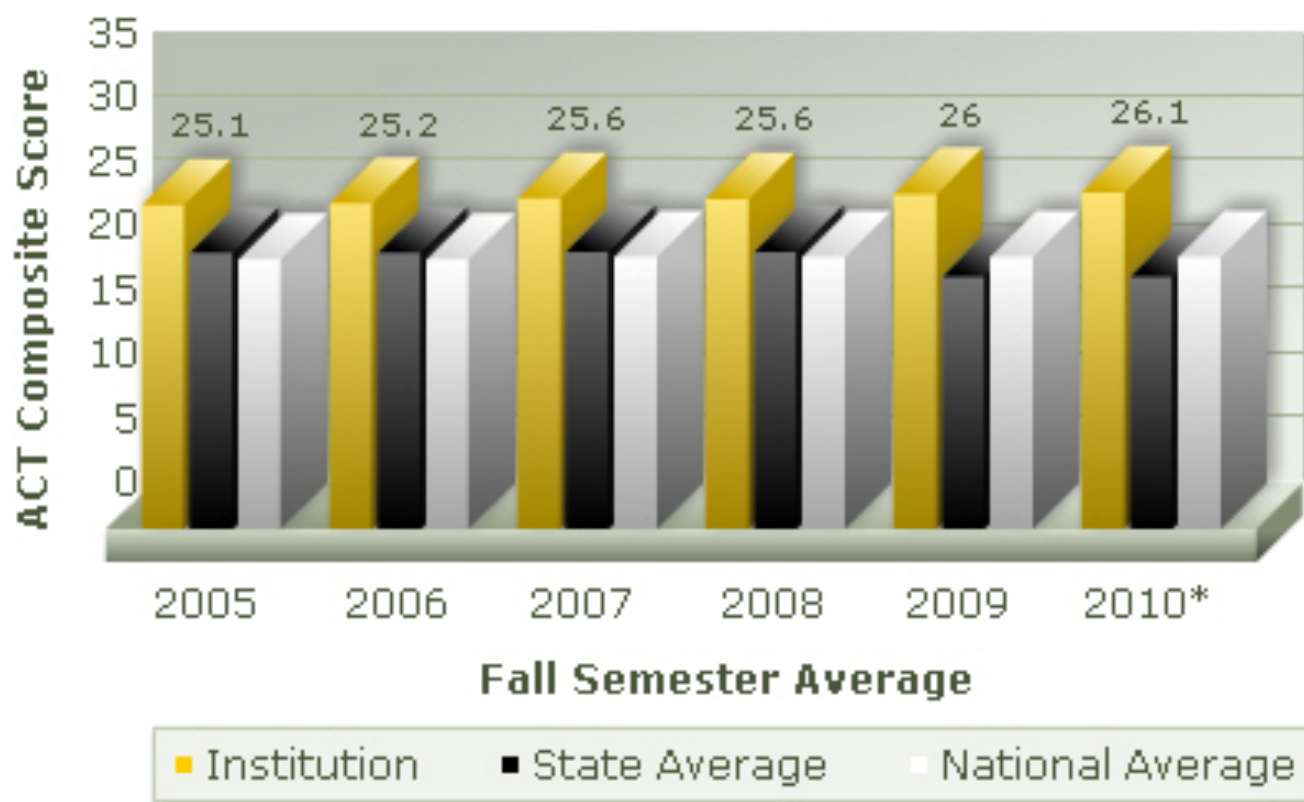
# Strategic Plan

- Approved by Board of Control on July 16, 2009
  - ✓ Major Goals Remain Same
    - People
    - Distinctive Education
    - Research/Scholarship/Creativity
- <http://www.mtu.edu/stratplan/>

**Vision for 2035:**

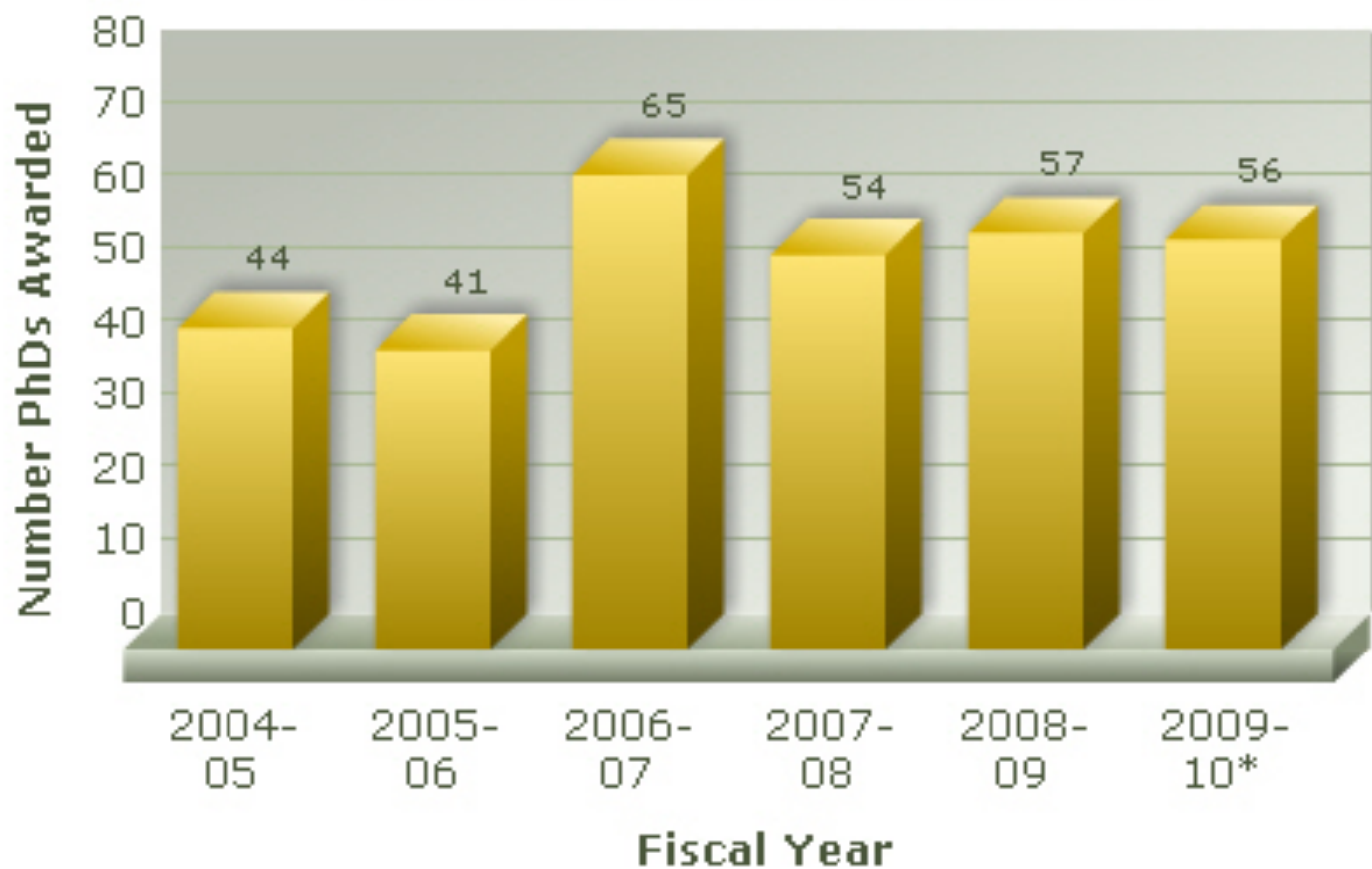
**World Class Research University**

### Incoming Freshmen ACT Scores Composite University Goal: 26





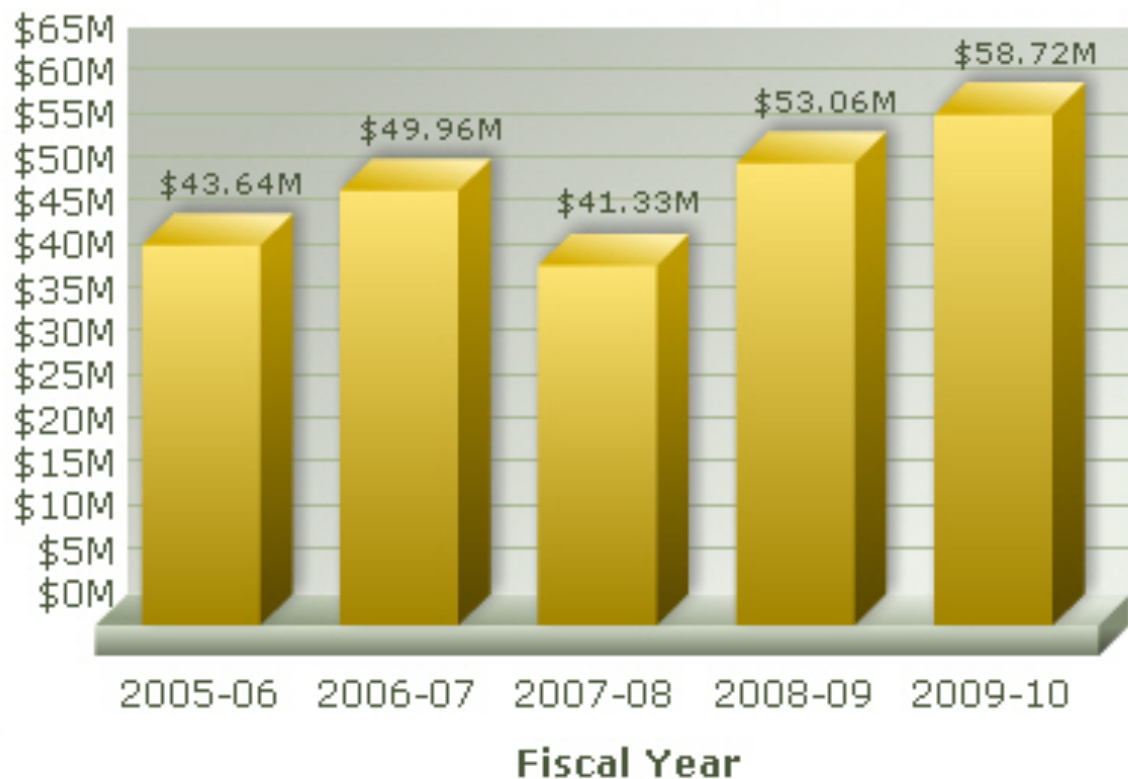
### Number of PhDs Awarded, Goal: 69



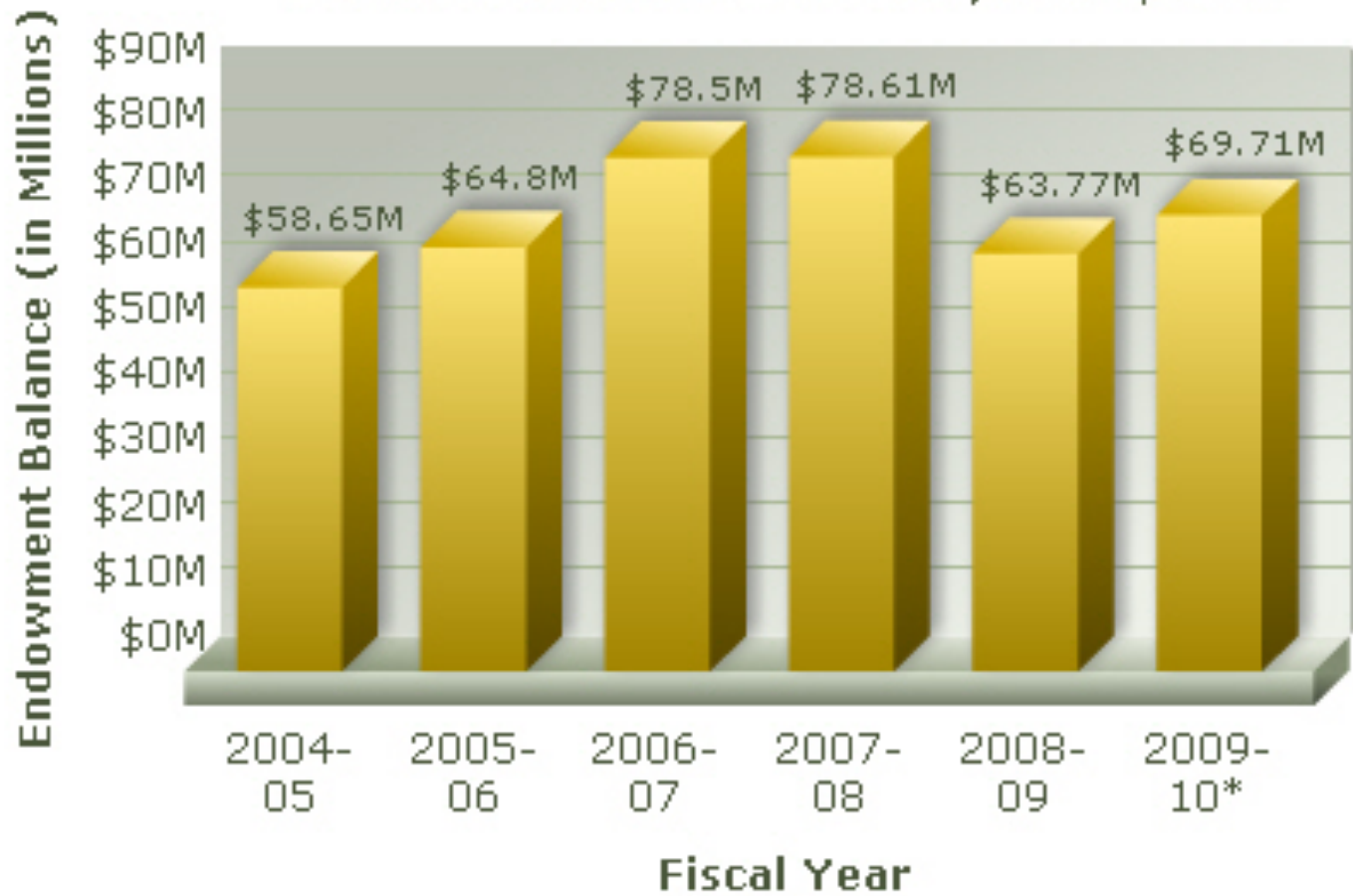
# Sponsored Programs Awards

Sponsored Programs Awards (in Millions)

Amount of Awards in Millions, Goal: \$76.6M



### Endowment Balance in Millions, Goal: \$200M



# AQIP

(Academic Quality Improvement Program)

Higher Learning Commission  
University Accreditation

# Summary of Action Projects

<b>Title Michigan Tech</b>	<b>Title AQIP</b>	<b>Kickoff Date</b>	<b>Expected Completion Date</b>	<b>Status</b>
<b>Improving the Diversity of the Faculty</b>	<b>Improving the Diversity of the Faculty</b>	<b>June 1, 2006</b>	<b>Sept 18, 2008</b>	<b>Completed</b>
<b>Learning Space Enhancement</b>	<b>Classroom and Facilities Upgrade Plan</b>	<b>June 1, 2006</b>	<b>Sept 24, 2008</b>	<b>Completed</b>
<b>Comprehensive University Space Inventory Process</b>	<b>Comprehensive University Space Inventory Process</b>	<b>June 1, 2006</b>	<b>Oct 3, 2008</b>	<b>Completed</b>
<b>Carbon Neutral</b>	<b>Carbon Counting</b>	<b>June 1, 2007</b>	<b>Sept 14, 2010</b>	<b>Completed</b>

# Summary of Action Projects

<b>Title Michigan Tech</b>	<b>Title AQIP</b>	<b>Kickoff Date</b>	<b>Expected Completion Date</b>	<b>Status</b>
<b>Academic Advising Enhancement</b>	<b>Academic Advising Enhancement</b>	<b>April 3, 2009</b>	<b>June 2011</b>	<b>Active</b>
<b>International Experience</b>	<b>Improving the Processes Associate with International Experience</b>	<b>April 6, 2009</b>	<b>June 2011</b>	<b>Active</b>
<b>Gender Diversity</b>	<b>Increase Gender Diversity of Faculty &amp; Students</b>	<b>Sept 20, 2010</b>	<b>Sept 20, 2012</b>	<b>Active</b>

# AQIP Project: Increasing Gender Diversity of Faculty & Students

The goal of this project is to develop processes and practices that will increase the gender diversity of faculty and students in order to

- “prepare students to create the future” (mission) and
- “attract, retain, and support a world-class and diverse faculty, staff, and student population” (goal).

It will improve processes for students and faculty, and communicate the value of gender diversity to our stakeholders.

# AQIP Project: Increasing Gender Diversity of Faculty & Students

This project builds on the following:

1. Completed Action Project to increase faculty diversity,
2. Current NSF ADVANCE grant to improve recruiting and mentoring of female faculty, and
3. Current Action Project to enhance academic advising. The project will improve processes for students and faculty and communicate the value of gender diversity to all university stakeholders.



# AQIP Project: Increasing Gender Diversity of Faculty & Students

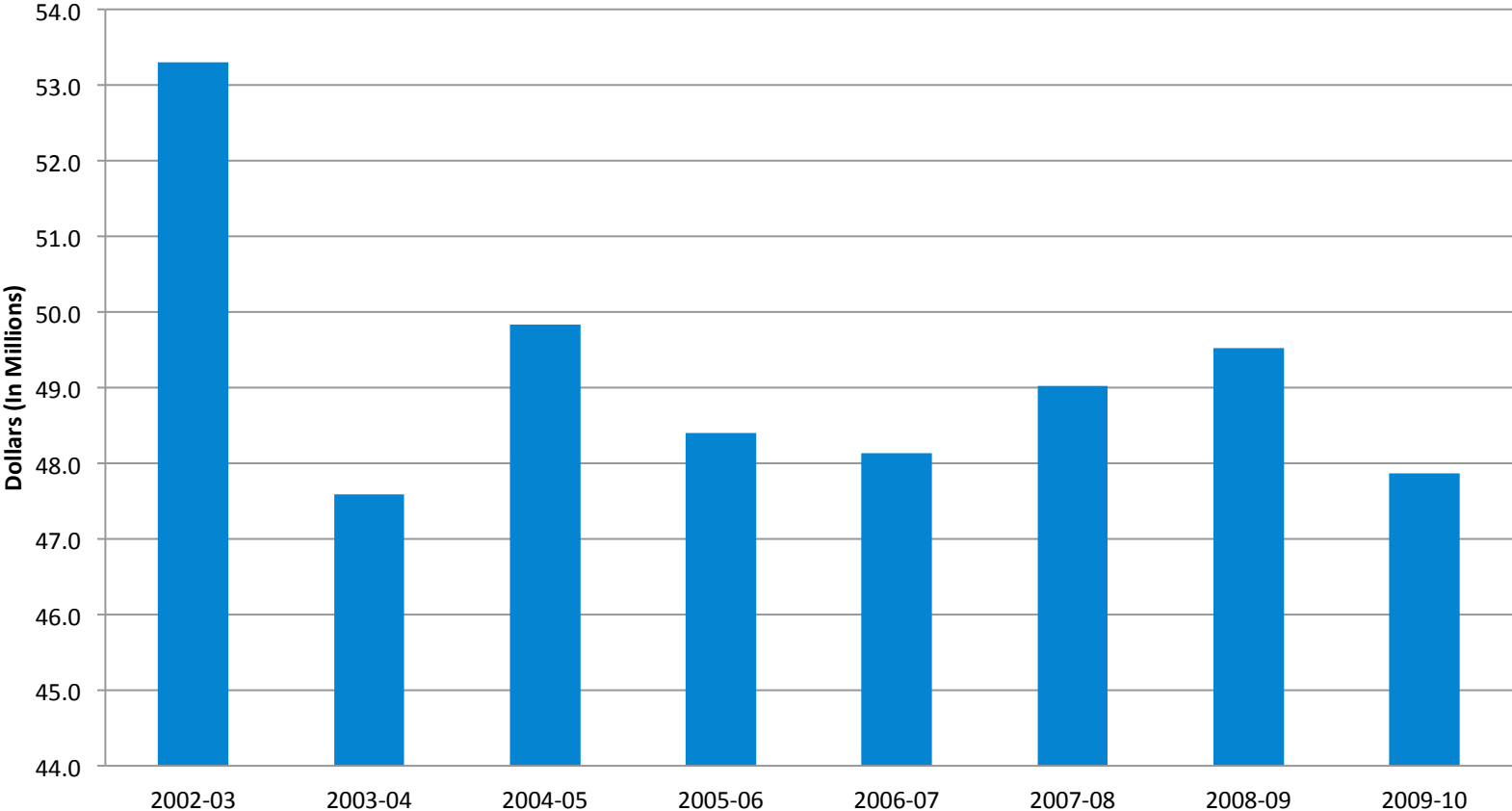
Five interrelated projects:

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.

# FINANCES

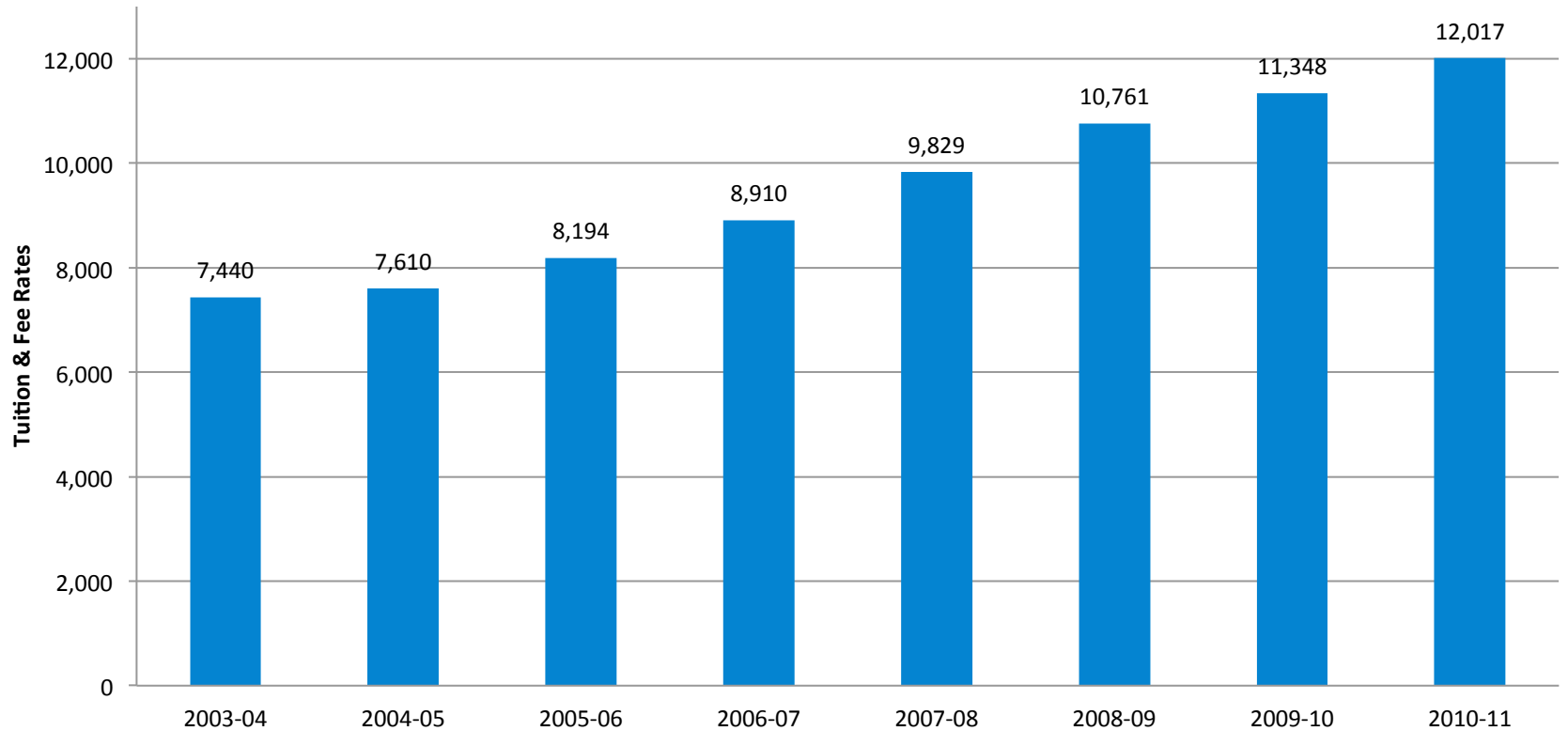
# State Appropriations

Fiscal Years 2002-03 to 2009-10



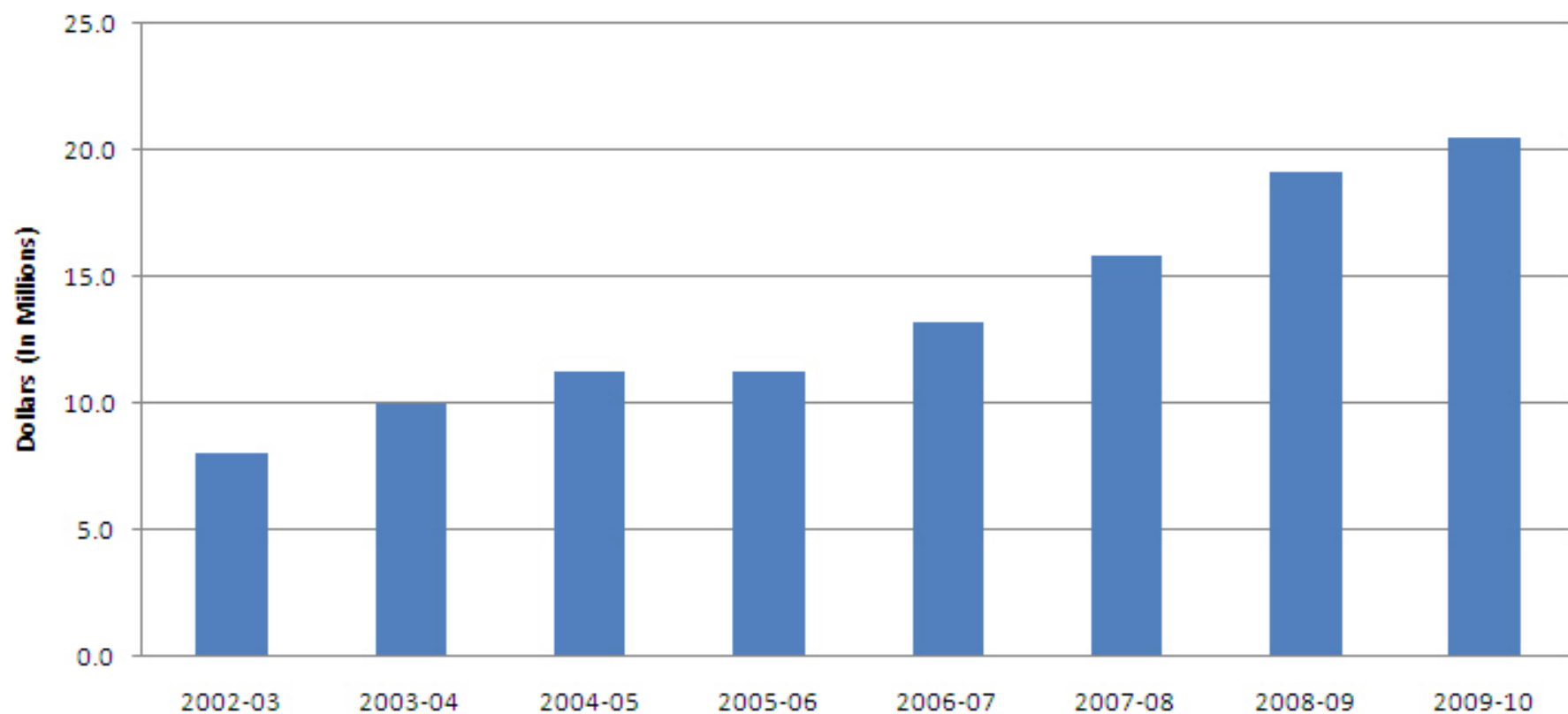
# Resident Freshmen Tuition & Fee Rates

Academic Years 2003-04 to 2009-10



## Undergraduate Financial Aid

Fiscal Years 2002-03 to 2009-10



Source: HEIDI Data

**Michigan Tech**

Create the Future

# Financial & Bond Ratings

- Aa3 – Financial Rating by Moody's Investors Services
- AAA – Bond Rating

# 2010-11 General Fund Budget Comparison by Department Unit (w/o fringes)

	<u>2009-10</u>	<u>2010-11</u>	<u>% Change</u>
• VPSA	5,429,749	5,527,423	1.8
• CFO	1,259,290	1,297,308	3.0
• BOC/Gov.	850,772	877,529	3.2
• VPA	9,864,264	10,187,772	3.3
• Provost	16,210,828	17,372,244	7.2
• President	770,383	790,730	2.6
• CIO	4,410,812	4,379,356	- 0.7
• VPAdv	2,624,725	2,710,883	3.3
• VPR	2,468,059	2,697,868	9.3
• Financial Aid	20,528,471	22,479,800*	9.5

\*estimate

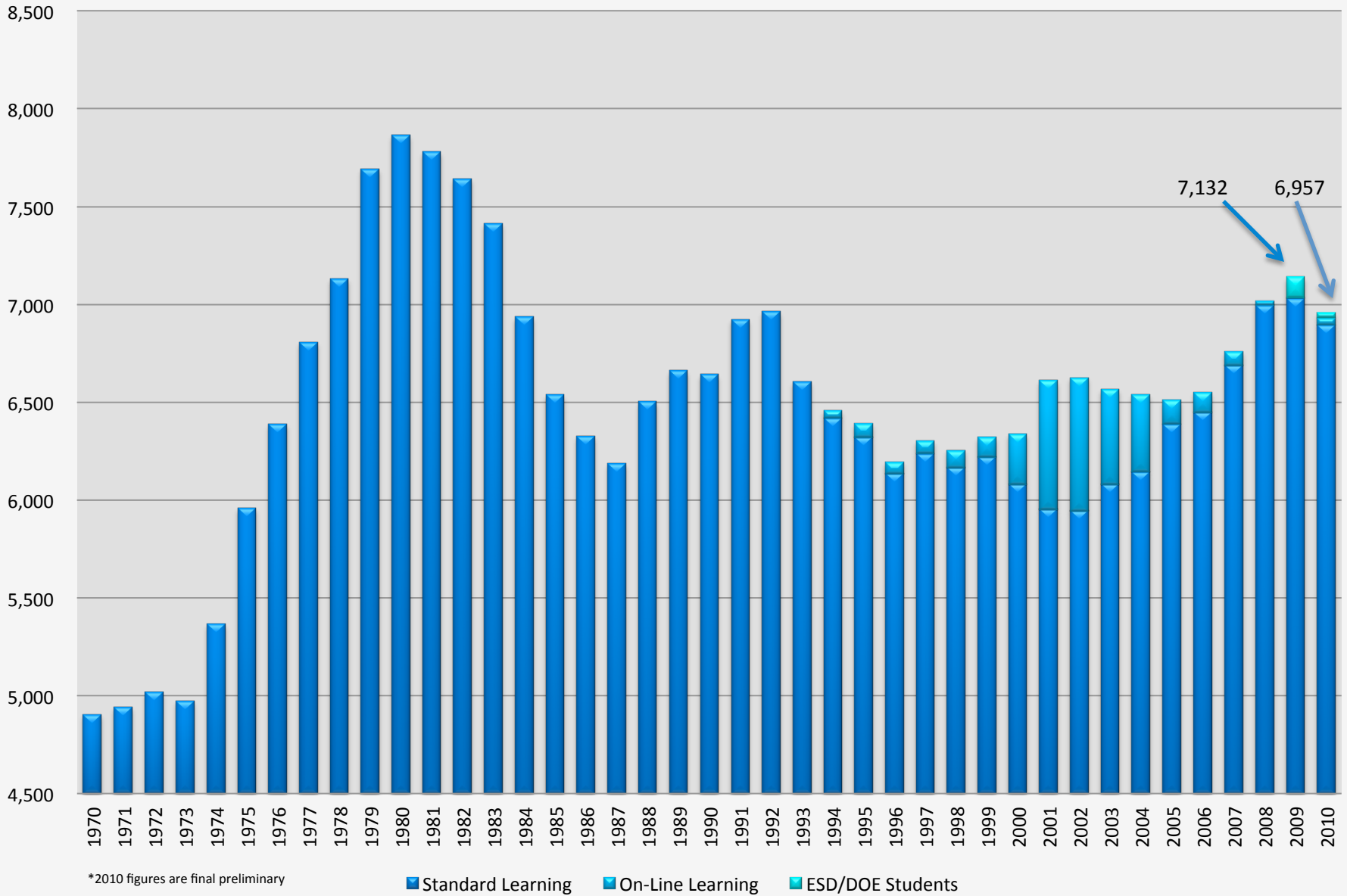
# 2010-11 General Fund Budget Comparison by Academic Unit (w/o fringes)

	<u>2009-10</u>	<u>2010-11</u>	<u>% Change</u>
• COE	17,392,200	18,170,531	4.5
• CSA	16,364,170	16,973,206	3.7
• SBE	3,249,570	3,601,586	10.8
• SFRES	2,482,206	2,649,606	6.7
• SOT	2,403,116	2,462,970	2.5



# ENROLLMENT

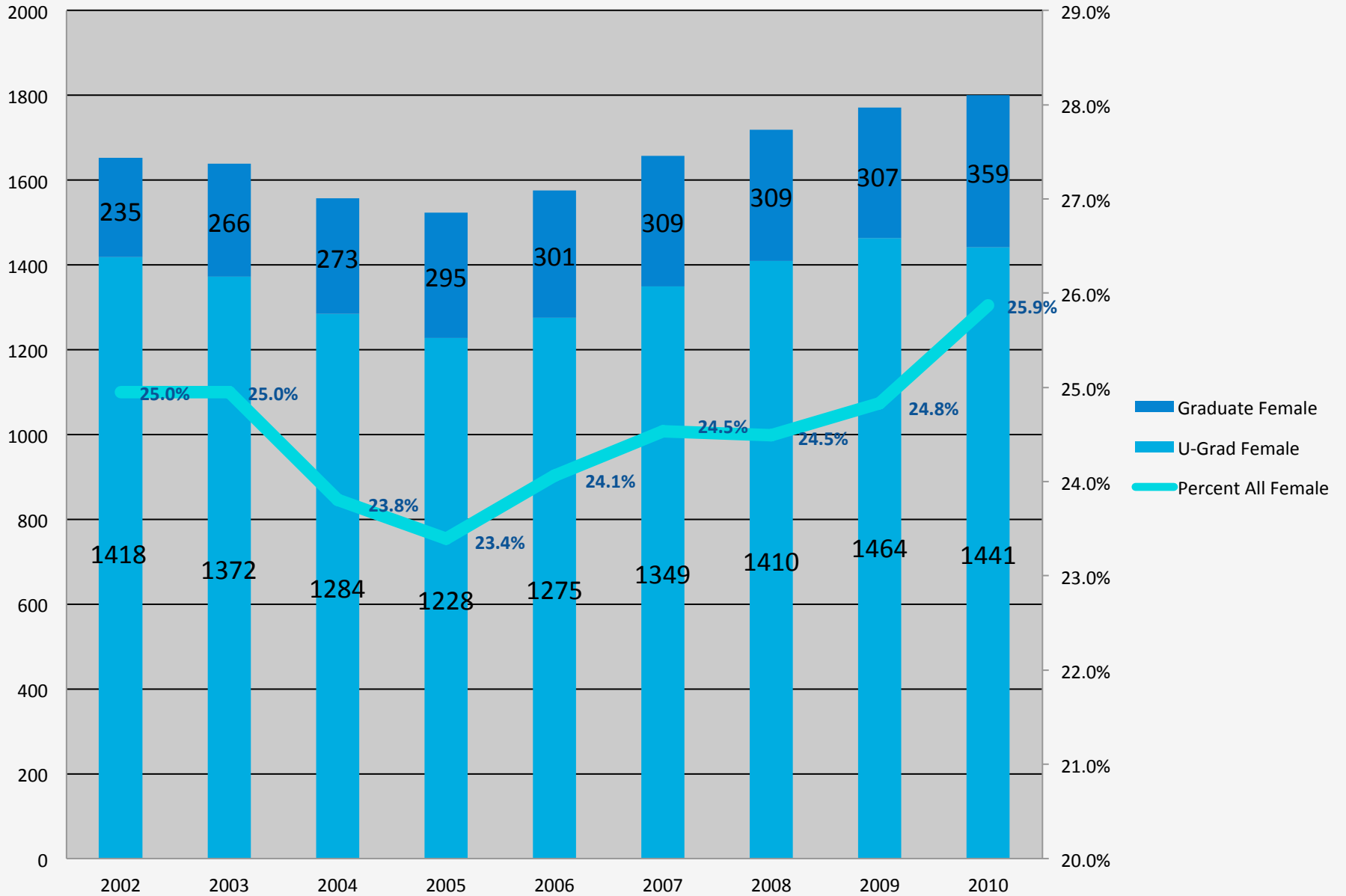
# Michigan Tech Fall Enrollment History 1970-2010



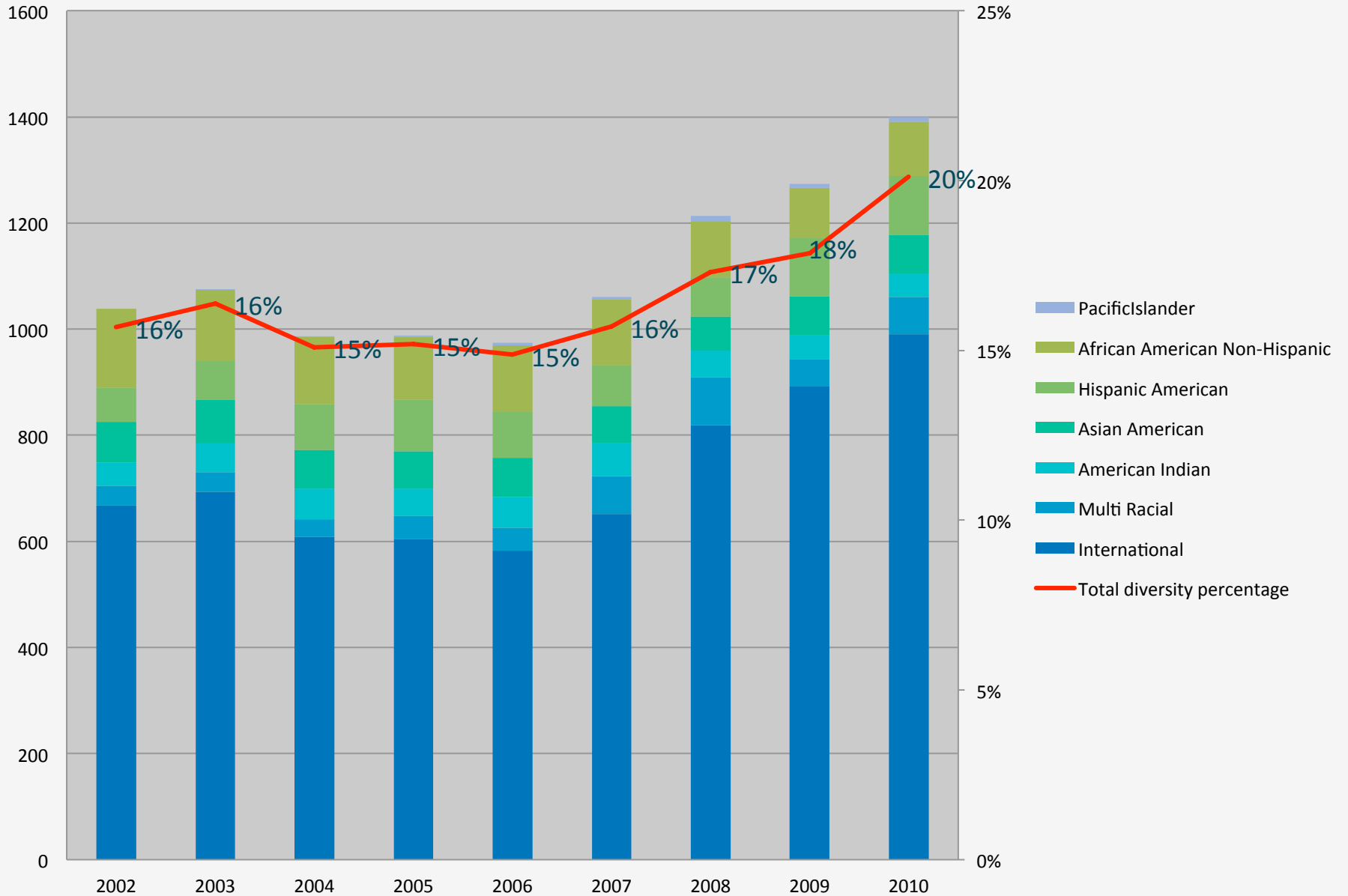
\*2010 figures are final preliminary

■ Standard Learning 
 ■ On-Line Learning 
 ■ ESD/DOE Students

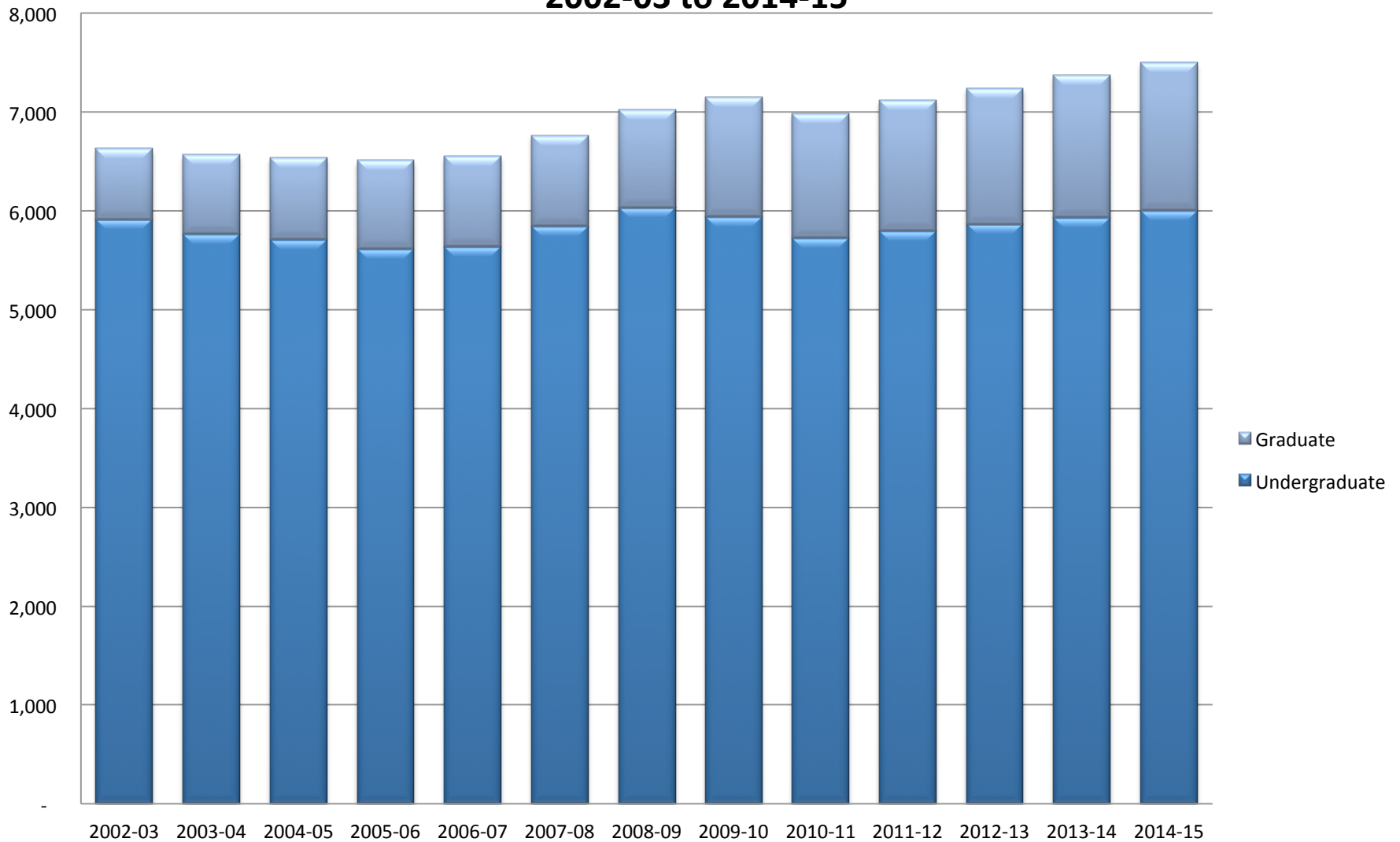
# Female Enrollment 2002-2010



# Domestic and International Diversity 2002-2010

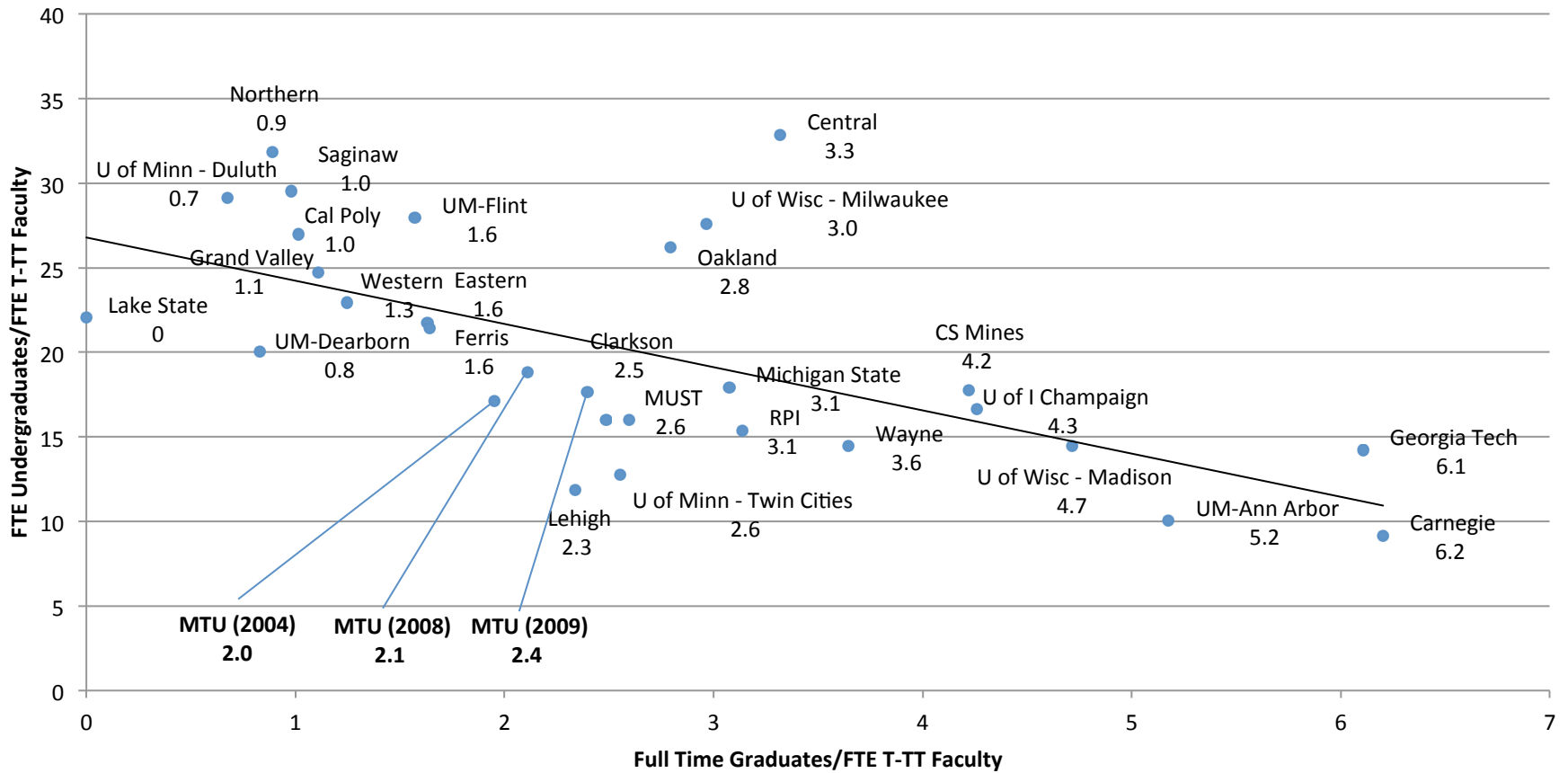


# Michigan Technological University Enrollment Projections 2002-03 to 2014-15



Note: Enrollments for 2010-11 through 2014-15 are projected

## Full Time Graduates vs. FTE Undergraduates Michigan Public Universities and Michigan Tech Benchmark Universities Fall 2008



NOTE: First-professional students and medical faculty are excluded from these figures.

SOURCE: IPEDS Data

OIA: 5-5-2010

SOURCE: IPEDS Data

# FACULTY

# New Faculty Hires

24 tenured/tenure track

- 7 female (29.2%)
- 17 male (70.8%)

6 lecturer/professor of practice

- 1 female (16.7%)
- 5 male (83.3%)



# Strategic Faculty Hiring Initiative

- Sustainability (7)
- Computational Design & Innovation (6)
- Energy (2)
- Health (3)
- Water
- Transportation

# STRATEGIC FACULTY HIRING INITIATIVE PRODUCTIVITY

## Sustainability and Computational Design & Innovation (13 hires)

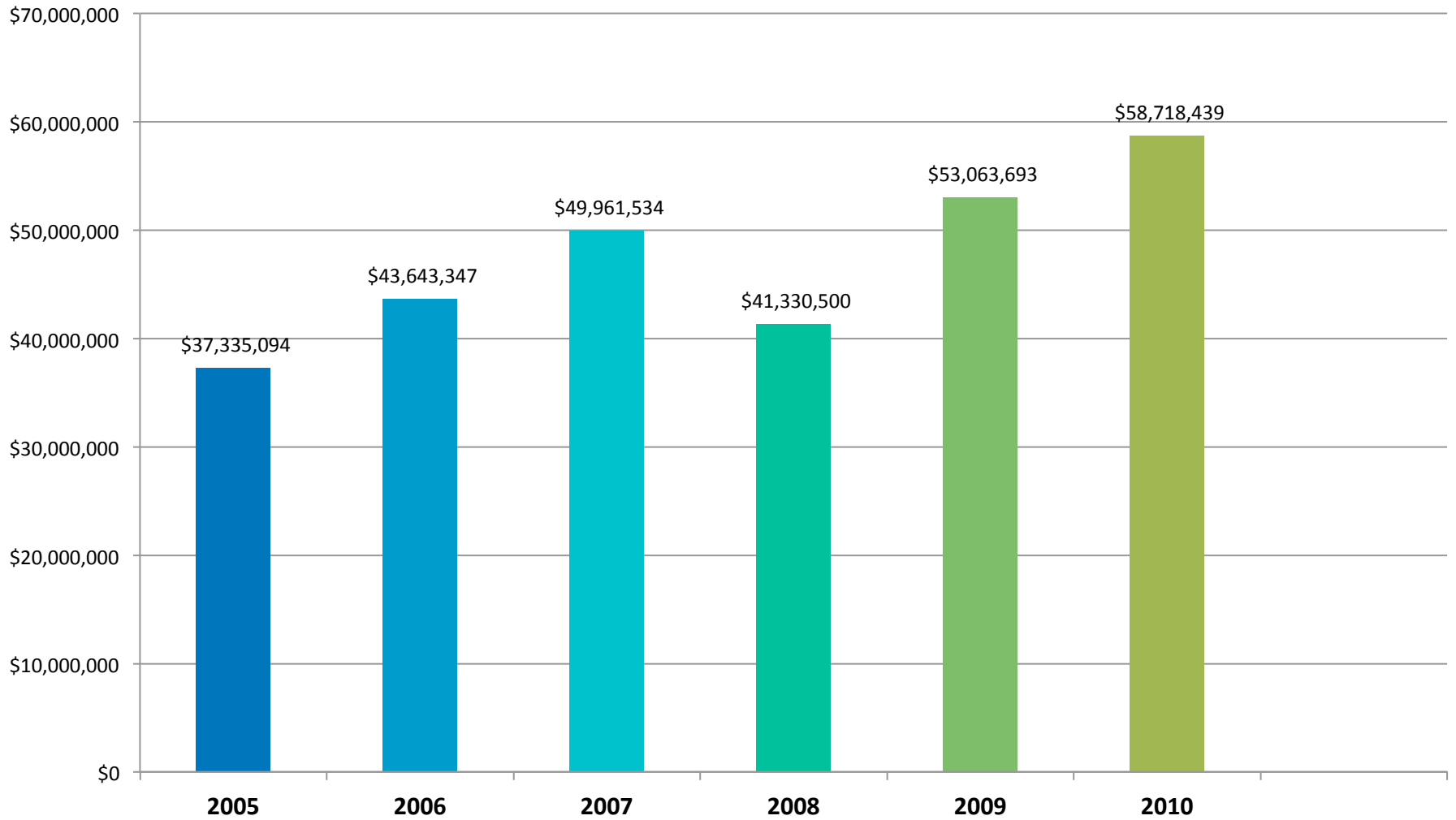
Graduate Students Advised	40
PhD Committee	13
MS Committee	13
Undergraduate Courses	32
Graduate Courses	32
PI Submitted	58
CoPI Submitted	26
Funded	\$2.1M

# RESEARCH

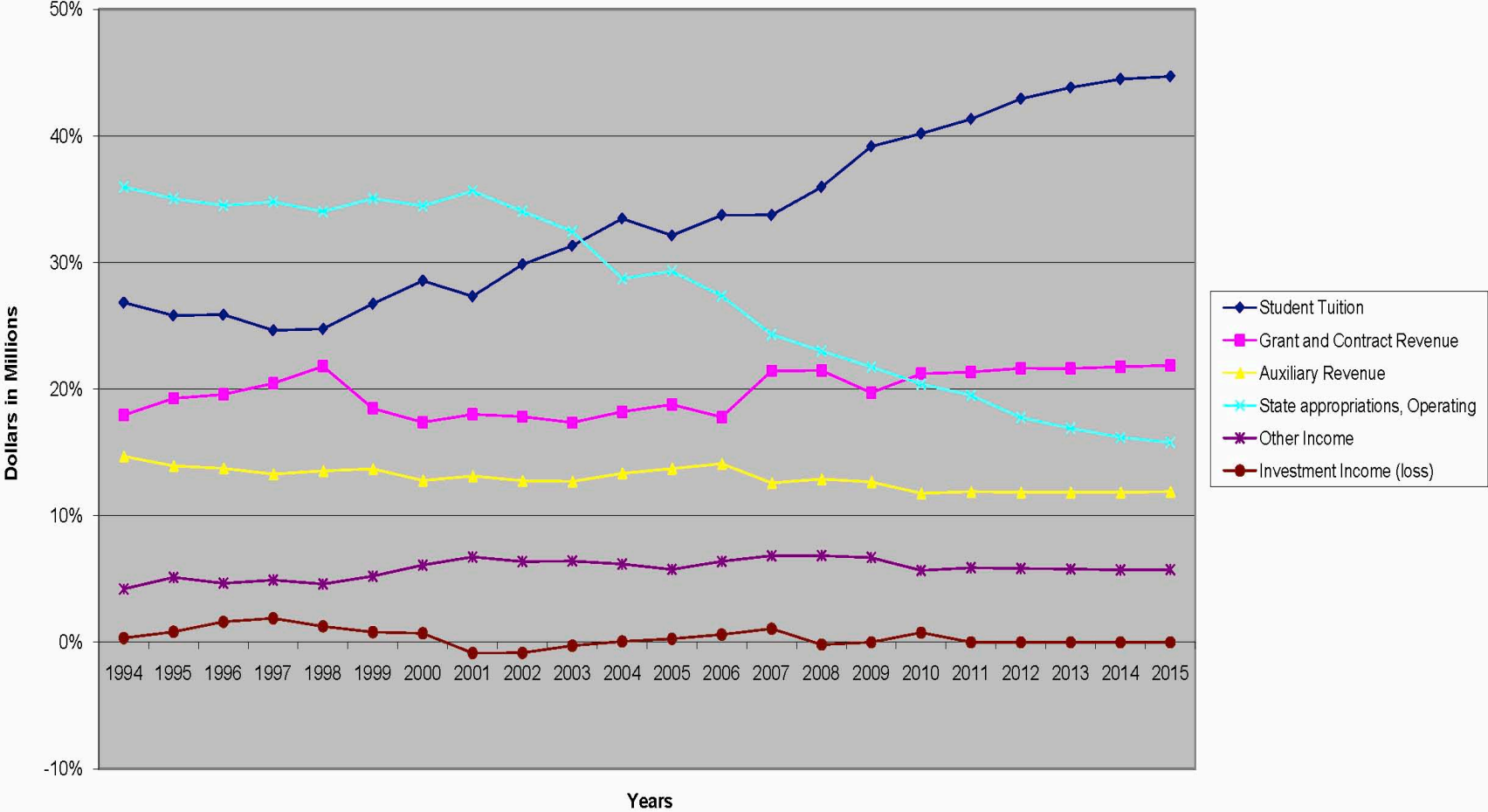
# FY08 NSF Research Rankings

- 163<sup>rd</sup> Nationally
- 118<sup>th</sup> Among Public Institutions
- 66<sup>th</sup> Among Institutions without Medical Schools

# Michigan Tech Sponsored Research Awards Fiscal Years 2005 - 2010



**CPI Adjusted Revenue Streams 1994-2015  
As a Percentage of Total Revenue**



# Michigan Tech Entrepreneurial Support Corporation

- MTESC will enhance opportunities for faculty, staff, and students to commercialize their discoveries.
- It will focus on an unaddressed link in the chain from invention to commercial enterprise, the activities between technology discovery and formation of a startup enterprise.

# Michigan Tech Entrepreneurial Support Corporation

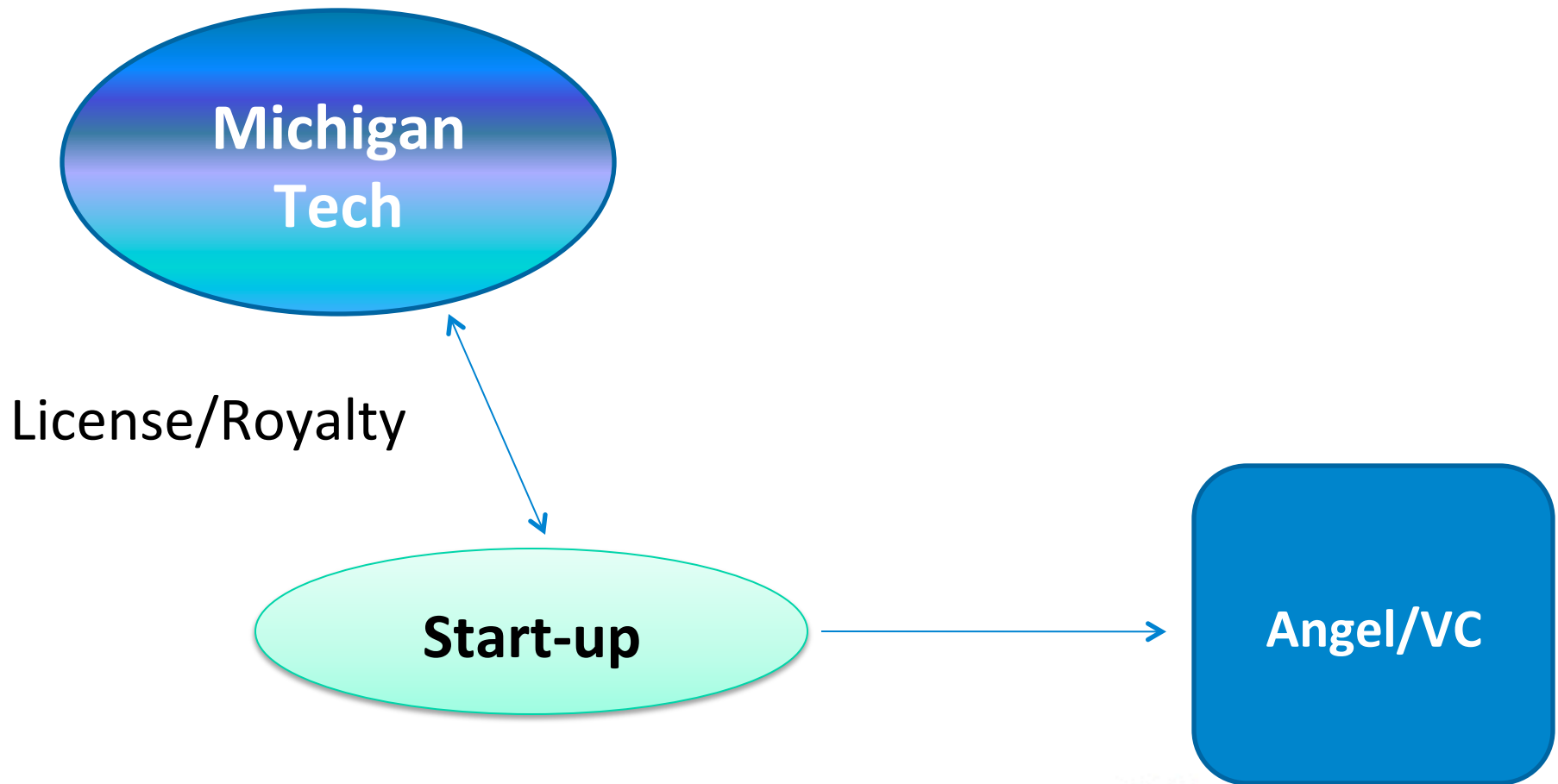
- MTESC will function as a proof-of-concept center to support technology commercialization from laboratory discovery to formation of a startup enterprise
- MTESC is complimentary to, and not a replacement for, current economic development activities in the community.

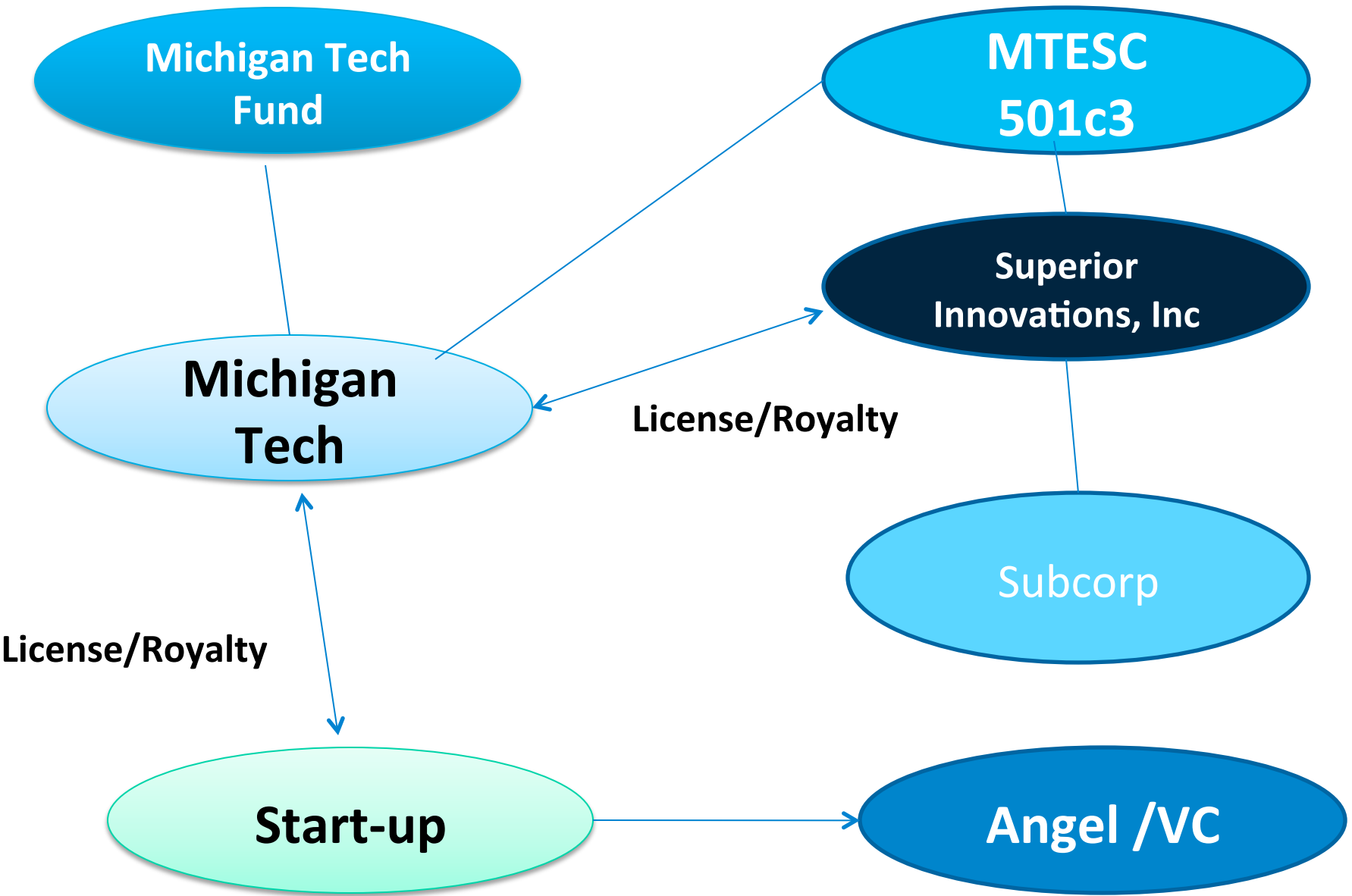


# Michigan Tech Entrepreneurial Support Corporation

- MTESC will be a 501 (c) (3) non-profit corporation and is expected to have one or more for-profit subsidiary corporations
- One of these will be an umbrella corporation, tentatively titled Superior Innovations, Inc.

# Michigan Tech Entrepreneurial Support Corporation





# Michigan Tech Entrepreneurial Support Corporation

- Proof-of-Concept Center
- Deshpande Center, MIT  
<http://web.mit.edu/deshpandecenter/>
- Von Liebig Center, UCSD  
<http://www.vonliebig.ucsd.edu/>

# CAPITAL CAMPAIGN

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## Generations of Discovery

### Campaign Productivity Totals

as of July 28, 2010

Draft Report - Data not Finalized	<u>Donations to Date</u>	<u>Goal</u>	<u>% of Goal</u>
Major & Restricted Gifts/Pledges	\$32,077,611	\$65,000,000	49.4%
Realized Planned Gifts	3,884,842		
Planned Gift Commitments	47,390,486	\$60,000,000	79.0%
Annual Fund	6,121,079	\$10,000,000	61.2%
Corp Sponsored Research	26,590,438	\$36,000,000	73.9%
Corporations	7,183,878	\$15,000,000	47.9%
Foundations & Other Orgs	2,094,661	\$6,000,000	34.9%
Gifts-in-Kind	4,727,893	\$8,000,000	59.1%
Subtotal	<u>130,070,888</u>		
(Discount of Planned Gifts)	<u>(7,678,647)</u>		
Grand Total	<u><u>\$122,392,241</u></u>	\$200,000,000	61.2%

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## Philanthropy – Since 2007

- \$120M +
- Increase from 4 to 17 named positions
- \$9.2M Scholarships
- \$1.7M Fellowships
- Rath Graduate Student/Advisor Award

# Gifts at work



Enterprises



MacInnes Student Ice Arena Skyboxes



Scholarships



Women's Soccer



Pavlis Institute for Global Technological Leadership



# Increase in Endowed Faculty Positions



**Dr Ching-An Peng**  
**James and Lorna Mack Endowed Chair**  
**Chemical Engineering**



**Dr Dave Shonnard**  
**Robbins Chair**  
**Chemical Engineering**



**Dr Shuanglin Zhang**  
**Henes Endowed Math Professorship**  
**Mathematical Sciences**



**Dr Rolf Peterson**  
**Robbins Chair**  
**School of Forest Resources and**  
**Environmental Sciences**



**Dr Tim Schulz**  
**Dave House Endowed Professorship**  
**Electrical and Computer Engineering**



**Dr Craig Friedrich**  
**Robbins Chair**  
**Mechanical Engineering - Engineering Mechanics**



**Dr Gordon Parker**  
**John and Cathy Drake Endowed Professorship**  
**Mechanical Engineering – Engineering Mechanics**

# CAPITAL PROJECTS

# CAPITAL PROJECTS

## (State and Federal Investments)

- Rekhi/Opie - \$35M (State Share=\$26.25M)
- ATDC - \$3.5M (Federal=\$2.5M; Corporate=\$1M)
- Lakeshore Center - \$3.5M (Federal)
- GLRC - \$25M (State Share=\$18.75M)
- Renovation Funds - \$10M (State Share=\$7.5M)



Student Apartments





Old Academic Offices Building



Meese Center





**Michigan Tech**  
Create the Future



Administration & Student Services  
Building





Keweenaw Research Center

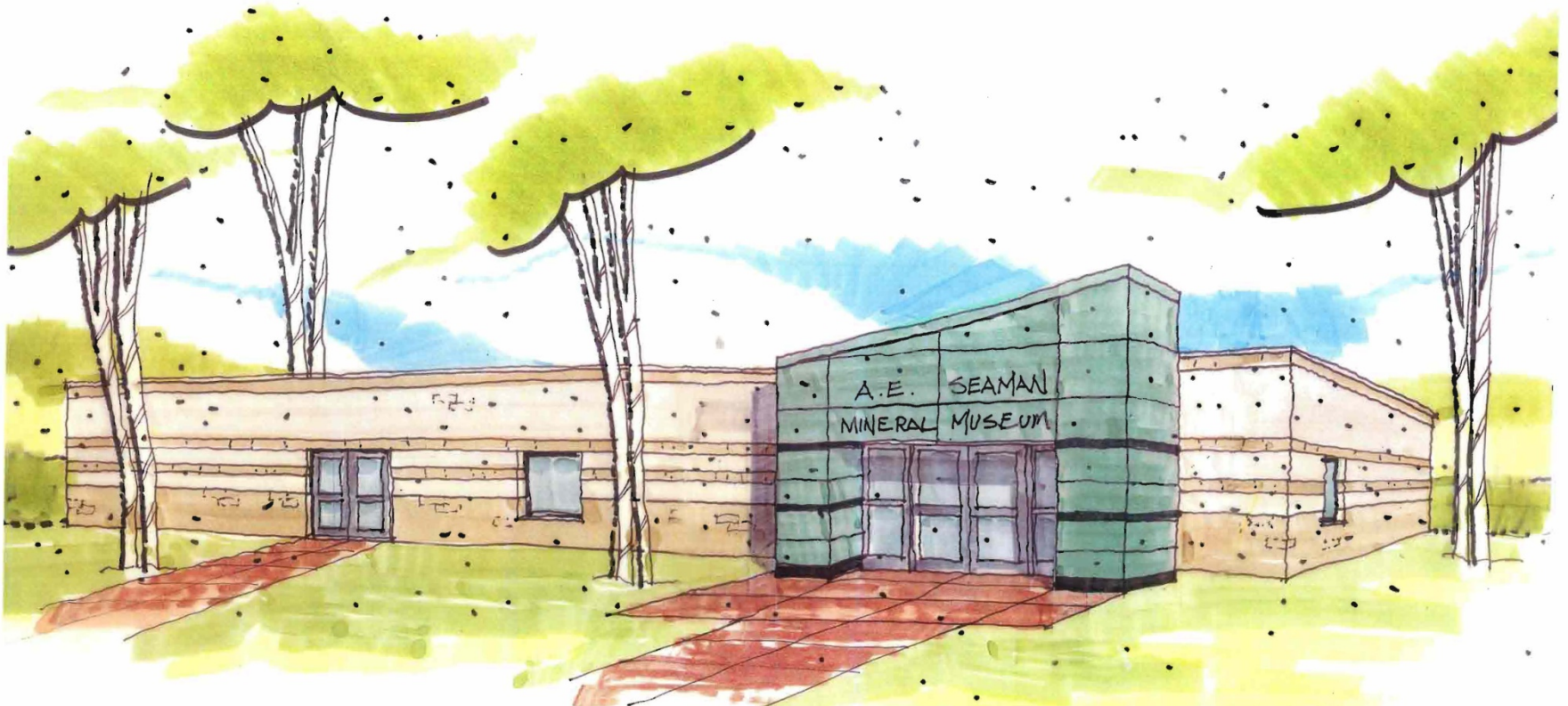


Blizzard Building





Electrical Energy Resource Center  
- A. E. Seaman Mineral Museum



**OHM**  
HOUGHTON, MI



A.E. SEAMAN  
MINERAL MUSEUM

MICHIGAN TECH. UNIVERSITY HOUGHTON, MI





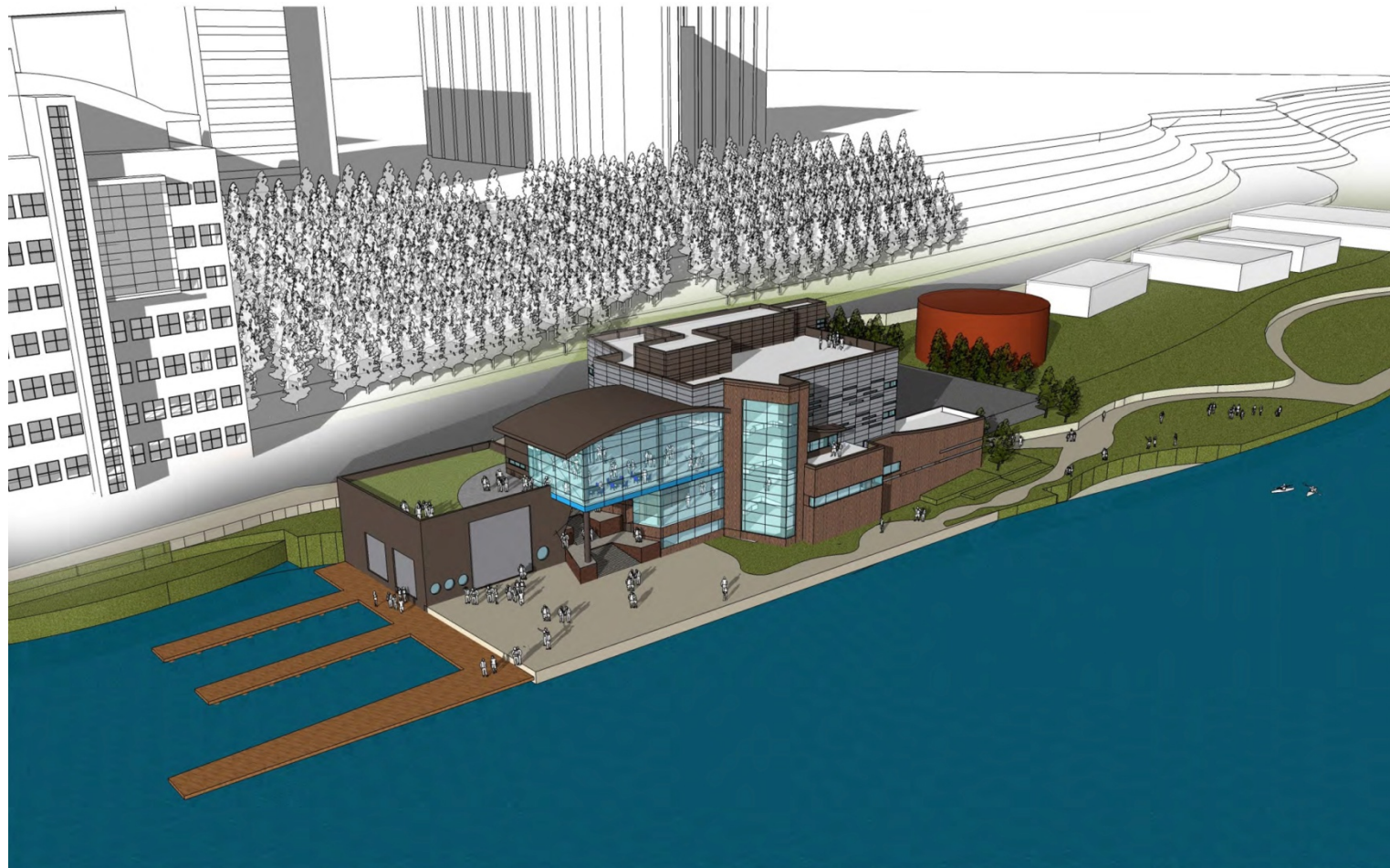
Humanities Digital Media Zone





Graduate Student Center







Building Site – Great Lakes Research Center



*1885 – 2010*

***Michigan Tech***

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CELEBRATING 125 YEARS