



Formal Session of the Board of Trustees
October 11, 2024
9:00 a.m. – 11:00 a.m.
Location: MUB Ballroom B
Public Meeting

- I. Call to Order**
Steve Tomaszewski, Chair
- II. Roll Call**
Sarah Schulte, Secretary
- III. Confirm Agenda**
Steve Tomaszewski, Chair
- IV. Opening Remarks**
 - A. Opening Remarks of the Board Chair**
Steve Tomaszewski, Chair
 - B. Opening Remarks of the University President**
Richard Koubek, President
- V. DCSA Headquarters Counterintelligence Award**

DCSA Personnel - Mr. Andrew Lochli, Assistant Director of Counterintelligence and Insider Threat
U.S. Rep./Lt. Gen. Jack Bergman
U.S. Rep. Greg Markkanen
Steve Tomaszewski, Chair
Richard Koubek, President
- VI. Public Comment Period**
- VII. Committee Reports**
 - A. Academic Affairs Committee**
John Bacon, Committee Chair
 - B. Audit and Finance Committee**
Jeff Littmann, Committee Chair
 - C. Leadership Committee**

TBD, Committee Chair

VIII. Consent Agenda

- A. Approval of Minutes**
- B. Degrees In Course**
- C. Resignations, Retirements, and Off-Payroll**
- D. Funding Productivity Report**
- E. 2025 Meeting Dates**
- F. Presidential Contract Update**

IX. Action and Discussion Items

- A. Emeritus Rank**
Andrew Storer, Provost and Senior Vice President for Academic Affairs
 - 1) Dr. Stephen L. Kampe, Professor Emeritus, Department of Materials Science & Engineering
- B. Bachelor of Science in Aerospace Engineering**
Andrew Storer, Provost and Senior Vice President for Academic Affairs
- C. Resolution to Accept the FY24 Audited Financial Statements**
Nick Stevens, Treasurer
Brian Greko, Partner Plante Moran
- D. Five-Year State Capital Outlay Plan and Request**
Nick Stevens, Treasurer

X. Reports

- A. A.E. Seaman Mineral Museum Report**
John Jaszczak, Director, and John and Phyllis Seaman Endowed Curator
Professor of Physics
- B. Research Presentation**
Jeff Naber, Endowed Professor, Mechanical and Aerospace Engineering
- C. Recruiting and Enrollment Update**
John Lehman, Vice President for University Relations and Enrollment
- D. Undergraduate Student Government**

Cole Pierucki, USG Vice-President

E. Graduate Student Government

Lauren Sprague, President

F. University Senate

Robert Hutchinson, President

XI. Informational Items

A. Analysis of Investments

B. Sponsored Programs

C. Advancement & Alumni Relations

D. Media Coverage

E. Employee Safety Statistics

F. Disposal of Surplus Property

G. Contracts 500K

XII. Date for Next Formal Meeting: December 13, 2024

XIII. Adjourn

VIII. Consent Agenda

- A. Approval of Minutes**
- B. Degrees In Course**



**Michigan
Technological
University**

Registrar's Office

MEMORANDUM

To: Dr Richard J Koubek
Office of the President

From: Theresa Jacques
Registrar's Office

Date: September 23, 2024

Subject: Candidates for Degree – Conferral Term 202405

The attached list of candidates for degrees, beginning with Michael J Halpin and ending with Tucker Dean Nielsen is submitted for the granting of the appropriate degrees by the Board of Trustees. I certify that these candidates meet all requirements for their respective degrees and that the names have been submitted to and have received the approval of the faculty from their major department.

Theresa Jacques
Registrar

TJ/kg

Michigan Technological University

Degrees Awarded for Conferral Term 202405

Michigan Technological University Registrar's Office September 23, 2024

Associate of Science in Engineering

- Michael J Halpin
- Simon Minhkhai Nguyen

Bachelor of Arts in Communication, Culture, and Media

- Melissa Louise Dowler

Bachelor of Arts in English

- Charlotte Rose Haanela - Summa Cum Laude

Bachelor of Science in Accounting

- Renae M Redinger - Summa Cum Laude

Bachelor of Science in Applied Geophysics

- Brendan Isaiah Harville

Bachelor of Science in Audio Production and Technology

- Cole D Bennett
- Bradley Jeffrey Hildwein
- David Hodgman - Cum Laude
- Bradley Keith Summers

Bachelor of Science in Biological Sciences

- Quinn Angus - Magna Cum Laude

Bachelor of Science in Biomedical Engineering

- Keegan Pierce Lieberman
- Megan Jolene Owen

Bachelor of Science in Chemical Engineering

- Jeffrey Christopher Diehl
- Nathan C LaFontaine
- David James Moore

Bachelor of Science in Civil Engineering

- Andrew James Fridstrom
- Colton James Haataja - Cum Laude
- Grant Steven Rochowiak
- Marc Douglas Sippel - Magna Cum Laude
- Cody Maxwell Towe

Bachelor of Science in Computer Engineering

- Robert J Burns
- Matthew A Jarman
- Zoey Ann Mishler
- Erik Jack Taylor

Bachelor of Science in Computer Science

- Ransom Robert Duncan
- Peyton Louise Hall
- Sean N Leverenz
- Levi William Milan
- Ethan Clarence Sampson

Bachelor of Science in Construction Management

- Jacob Edward Larson

Bachelor of Science in Cybersecurity

- Ethan Randall Brinks - Cum Laude

Bachelor of Science in Electrical Engineering

- Alexander Thomas Beltz
- Benjamin Louis Demick
- Evan J Jablinsky
- Zachary R Niemi
- Braedan Douglas Ruetz

Bachelor of Science in Electrical Engineering Technology

- Haylah Raye Buell

Bachelor of Science in Engineering Management

- Easton Gray Armstrong
- Zachary Bernard Hooper

Bachelor of Science in Environmental Engineering

- Alainna Ann Moffit

Bachelor of Science in Exercise Science

- Andrew Joseph Eskola
- Logan R Geissler - Magna Cum Laude
- Luke Elias Lahtinen

Bachelor of Science in Finance

- Colin James Swoyer

Bachelor of Science in Forestry

- Dylan Charles McCauley

Bachelor of Science in Geology

- Lydia K Lamey - Magna Cum Laude

Bachelor of Science in Geospatial Engineering

- Jacob Daniel Wysko - Magna Cum Laude

Bachelor of Science in Management

- Victoria Adele Ghazal

Bachelor of Science in Management Information Systems

- Zachary Bernard Hooper

Bachelor of Science in Marketing

- Seulgi Lee

Bachelor of Science in Materials Science and Engineering

- Braeden Elijah Apps
- Ryan Robert Dych
- John M Gatewood

Bachelor of Science in Mechanical Engineering

- Alexander James Albanice
- Ethan Loy Baker
- Cooper B Coatsworth
- Connor Farrand Davis
- Nicholas Daniel Gerstweiler
- Jonathan Austin Haverland
- Bode Charles Kays
- James Patrick Olson
- Seth D Quayle
- Gregory Thomas Redlon - Magna Cum Laude
- Lemirrette Vargas Pagan

Bachelor of Science in Mechanical Engineering Technology

- Collin James Little

Bachelor of Science in Medical Laboratory Science

- Grace Margaret Gyolai - Summa Cum Laude

Bachelor of Science in Psychology

- Anna M Lindgren
- Alyssa R Wiedeman* - Magna Cum Laude

Bachelor of Science in Robotics Engineering

- Nicolas Linly Howland
- Mohamed Yasser Salem
- Seth Ronald Thurman - Magna Cum Laude

Bachelor of Science in Social Sciences

- Olivia M Zonavetch

Bachelor of Science in Software Engineering

- Benjamin Lee Fosdick - Summa Cum Laude
- Alexander James McWilliam
- Joshua William Staples - Cum Laude
- Grayson R Wagner

Bachelor of Science in Sustainability Science and Society

- Ingrid Mary Sokup - Summa Cum Laude
- Alexis Belle Tater - Cum Laude

Bachelor of Science in Wildlife Ecology and Conservation

- Prudence Helene Friesenhahn

Doctor of Philosophy in Biological Sciences

- Michelle Catherine Kelly

Doctor of Philosophy in Chemical Engineering

- Utkarsh Shailesh Chaudhari
- Natalie Marie Nold
- Neha Sharma

Doctor of Philosophy in Computer Science

- Daniel James Byrne
- Sadia Nowrin
- Scott Katsumi Pomerville
- Yuchen Wang

Doctor of Philosophy in Electrical Engineering

- Casey Douglas Majhor
- Md Aamir Rahmani

Doctor of Philosophy in Engineering - Environmental Engineering

- Siyuan Fang

Doctor of Philosophy in Forest Science

- Tiffany Lynne Degroot
- Katherine Elizabeth Higdon

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

- Tania Sofia Demonte Gonzalez
- Akshay Shankarrao Dongre
- Siddharth Bharat Gopujkar
- Venkata Satya Sai Revanth Matthey

- Udit Sharma

Doctor of Philosophy in Rhetoric, Theory and Culture

- Fredrica Markson Eduaful
- Samantha Quade
- Basanti Timalsina

Master of Business Administr. in Business Administration

- Katherine Ann Smith

Master of Engineering Mgmt in Engineering Management

- Mareah Ann Meulemans

Master of Forestry in Forestry

- Harlee Danielle Craddock

Master of Science in Accounting

- Trent Frederick Magers
- Jacquelyn Anne Olesen

Master of Science in Applied Cognitive Science and Human Factors

- Sara Aslani
- Samantha Rose Walker

Master of Science in Applied Ecology

- Jenna Irene Brewer
- Eli Andrew Paulen
- Malik Sankofa
- Patrick Nicolas Skillings

Master of Science in Applied Statistics

- Sara Emilia Azadbakht
- Quentin Bullock
- Eric Jordan Gridley
- Tram Ho
- Dustin Nichols
- Matthew Rainier Ellis Teodoro
- Marta Mebrahtu Tewodros
- Shuo Tian

Master of Science in Biological Sciences

- Ryan Christopher Heines
- Mitchell Robert Kehne
- John Chandler McCall
- Hailee Petosky

- FNU Prince Mohammed Faisal

Master of Science in Biomedical Engineering

- Saad Asim
- Jessica Elizabeth Mehregan
- Victoria Elena Santillan

Master of Science in Chemical Engineering

- Rikhsikhon Fozilova

Master of Science in Chemistry

- Oluwanifesimi Mary Afolabi

Master of Science in Civil Engineering

- Navid Ehsani Astaneh
- Ervin Louis Kraft
- Rachel Marie May

Master of Science in Computer Science

- Brian Michael Conn
- Xinyun Liu
- Caleb James Rother
- Harsh Kumar Singh
- Ronald Ryan Stempien

Master of Science in Cybersecurity

- Jacob Michael Ludwig

Master of Science in Data Science

- Tracy Gaolese
- Vimalesh Raja Karupiah Ramachandran

Master of Science in Electrical and Computer Engineering

- Vaishnavi Harish Balambeed
- Derek Scott Brewer
- Dylan Jeffrey Kangas
- Nusrat Mary
- Morgan Renee Pfau

Master of Science in Geology

- Jarod Maggio

Master of Science in Geophysics

- Sunday Joseph
- Morgana Marie Wilke
- Aimee Zimmerman

Master of Science in Health Informatics

- Fnu Sifat Naseem

Master of Science in Kinesiology

- Nathan Edward Balok
- Abigail Christine Brooks
- Blake Martin Hewitt

Master of Science in Manufacturing Engineering

- Kayla Marie Wilson

Master of Science in Mathematical Sciences

- Cody John McCarthy

Master of Science in Mechanical Engineering

- Vasu Bhardwaj
- Douglas Alan Brynsvold
- Alexander Bruce Czarnecki
- Christopher Andrew Haferman
- Morgan Aleece Kline
- Rishitha Kothulapuram
- Sourab Shashikant Kulkarni
- Nolan Michael Ruble
- Mark Hendrik Schmelzle

Master of Science in Mechatronics

- Srinivas Lokaranjan

Master of Science in Mining Engineering

- Enoch Nii- Okai

Master of Science in Physics

- Vinaayak Sivam Balasubramaniam

Master of Science in Rhetoric, Theory and Culture

- Iheanyi Genius Amaraizu
- Tucker Dean Nielsen

* Addendum to Conferral Report

- Degree Awarded 202401

C. Resignations, Retirements, and Off-Payroll

**BOARD OF TRUSTEES OFF-PAYROLL REPORT
(July 1, 2024 – September 21, 2024)**

| RETIRED | | | | | |
|------------------|--------------|---|---|------------------------------|------------------|
| Name | Class | Department | Title | Most Recent Hire Date | Term Date |
| Gisele Colarossi | PF | Financial Services & Operations | Director, Michigan Tech Fund Accounting | 07/01/2012 | 07/19/2024 |
| Gretchen Hein | FC | Manufacturing & Mechanical Engineering Technology | Associate Teaching Professor | 08/23/1998 | 08/18/2024 |
| Iosif Pinelis | FF | Mathematical Sciences | Professor | 08/31/1992 | 08/25/2024 |
| Debbie Jarve | AF | Facilities Management | Custodian | 08/17/2001 | 09/20/2024 |

| OFF-PAYROLL | | | | | |
|----------------------|--------------|---|--|------------------------------|------------------|
| Name | Class | Department | Title | Most Recent Hire Date | Term Date |
| Jennifer Sanders | NP | College of Forest Resources & Environmental Science | Biotech & Genome Lab Manager | 05/25/2015 | 07/05/2024 |
| Luke McCurry | PF | Athletics/Recreation Complex Operations | Recreation Coordinator | 08/08/2022 | 07/05/2024 |
| Andrea Kolehmainen | PF | University Images | Merchandising Coordinator | 05/15/2023 | 07/07/2024 |
| Michael Carlson | UF | Athletics/Recreation Complex Operations | Senior Office Assistant | 02/20/2023 | 07/09/2024 |
| Kim Wadesson | UF | Admissions | Senior Office Assistant | 05/28/2024 | 07/11/2024 |
| Nathaniel Arringdale | PF | Michigan Tech Research Institute (MTRI) | Assistant Research Scientist/Environmental Analyst | 04/04/2022 | 07/12/2024 |
| Rebekah Helman | PF | University Relations & Enrollment | Operations Coordinator | 05/16/2022 | 07/12/2024 |
| Hassan Masoud | FF | Mechanical & Aerospace Engineering | Associate Professor | 07/02/2017 | 07/15/2024 |
| Muhammad Rizwan | FF | Biomedical Engineering | Assistant Professor | 01/02/2022 | 07/19/2024 |
| Shawn Klomparens | PF | College of Forest Resources & Environmental Science | Senior Full Stack Web Designer | 08/01/2016 | 07/23/2024 |
| Adam Lanctot | NF | Information Technology - Service Management | Help Desk Consultant | 08/05/2024 | 08/16/2024 |
| Michael Battaglia | PF | Michigan Tech Research Institute (MTRI) | Research Scientist/Geospatial Researcher | 09/19/2011 | 08/02/2024 |
| Robert Lambert | NF | Center for Educational Outreach | Coordinator | 11/28/2022 | 08/03/2024 |
| Briana Wakeham | PF | Social Sciences | Manager, Sustainable Outreach Program | 06/06/2016 | 08/04/2024 |
| Katherine Theisen | PF | McNair Hall Food Service | Associate Manager | 02/20/2023 | 08/09/2024 |
| Li Chen | PF | Biological Sciences | Research Associate | 09/11/2023 | 08/09/2024 |
| Samantha Smith | FF | Psychology & Human Factors | Assistant Professor | 08/19/2019 | 08/09/2024 |

Formal Session of the Board of Trustees - Consent Items

| | | | | | |
|------------------------|----|---|---|------------|------------|
| Quincy Higgins Arney | NF | Facilities Management | Master Gardener | 04/23/2014 | 08/09/2024 |
| Steven Elmer | FF | Kinesiology/Integrative Physiology | Associate Professor | 08/03/2014 | 08/10/2024 |
| Ramy El-Ganainy | FF | Physics | Professor | 08/19/2013 | 08/13/2024 |
| Sherry Kunnari | PF | Human Resources | Human Resources Generalist | 06/26/2023 | 08/14/2024 |
| Niusen Chen | RP | Computer Science | Research Assistant Professor | 12/24/2023 | 08/15/2024 |
| Alexander Mueller | PF | Michigan Tech Research Institute (MTRI) | Assistant Research Engineer/Software Developer | 03/07/2022 | 08/16/2024 |
| Michael Banyas | PF | Information Technology – Enterprise | Student Engagement & Outreach Specialist | 10/30/2023 | 08/20/2024 |
| April Heikkinen | AF | Residential Dining | Food Service Helper | 11/07/2011 | 08/23/2024 |
| Andrea Senyk | PF | Chemical Engineering | Assistant Research Scientist | 07/25/2022 | 08/31/2024 |
| Angela Cooke | PF | Associate Provost for Undergraduate Education | Assistant to the Associate Provost & Budget Manager | 12/03/2018 | 08/31/2024 |
| Steven Mintz | PF | University Marketing & Communications | College Marketing & Communications Manager | 12/03/2018 | 08/31/2024 |
| Theodore Holmstrom | AF | Wadsworth Hall Food Service | Food Service Helper | 08/05/2024 | 09/04/2024 |
| Tammy Tambellini Umlor | UP | Van Pelt & Opie Library | Office Assistant | 07/09/2024 | 09/06/2024 |

D. Funding Productivity Report

**Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report**
Fiscal Year 2024 through 6/30/2024
Compared to Prior Fiscal Year

| FY 2024 | | | | | FY 2023 | | | | |
|-------------------------------|----------------------|------------|--------------|-------------|-------------------------------|----------------------|------------|-------------------|----------------------|
| Source | YTD Total | Adjustment | FY Goal | % of Goal | Source | YTD Total | Adjustment | FY % of Goal Goal | FY Total |
| Major Gifts (Over 10K) | 4,397,180.46 | | 7.96 | 55% | Major Gifts (Over 10K) | 6,147,795 | | 6.92 89% | 6,147,794.51 |
| Planned Gift Commitments | 16,699,553.90 | | 13.35 | 125% | Planned Gift Commitments | 15,149,500.00 | | 12.04 126% | 15,149,500.00 |
| Annual Giving (10K or less) | 2,880,492.29 | | 2.37 | 122% | Annual Giving (10K or less) | 2,741,921.96 | | 2.31 119% | 2,741,921.96 |
| <i>Subtotal: Ind Giving</i> | <i>23,977,226.65</i> | | <i>23.68</i> | <i>101%</i> | <i>Subtotal: Ind Giving</i> | <i>24,039,216.47</i> | | <i>21.27 113%</i> | <i>24,039,216.47</i> |
| Corporate Giving | 3,388,354.10 | | 2.50 | 136% | Corporate Giving | 3,182,823.90 | | 2.05 155% | 3,182,823.90 |
| Foundation & Other Org Giving | 6,198,151.28 | | 3.00 | 207% | Foundation & Other Org Giving | 1,318,742.01 | | 5.13 26% | 1,318,742.01 |
| Corporate Sponsored Research | 14,942,356.00 | | 13.67 | 109% | Corporate Sponsored Research | 16,309,474.00 | | 13.33 122% | 16,309,474.00 |
| FUNDRAISING TOTAL | 48,506,088.03 | | 42.85 | 113% | FUNDRAISING TOTAL | 44,850,256.38 | | 41.77 107% | 44,850,256.38 |

E. Proposed 2025 Meeting Dates

At the August meeting of the Board of Trustees dates are generally set for next year's meetings. In order for members to check their calendars, the tentative dates are presented. If there is a conflict with any of these dates, members are asked to please notify the Board Secretary.

Retreat

Wednesday, February 19, 2025 (half day)

Thursday, February 20, 2025

Formal Session

Friday, February 21, 2025

Friday, April 25, 2025

Thursday, July 31, 2025

Friday, October 10, 2025

Friday, December 12, 2025

F. Presidential Contract Update

**Amendment to July 1, 2023, Employment Agreement for Richard Koubek
Effective October 11, 2024**

This first amendment (“Amendment”), dated October 11, 2024, (the “Effective Date”) to the July 1, 2023, employment contract (the “Agreement”) between Michigan Technological University (the “University”) and Richard Koubek (the “President”) (collectively, the “Parties”) and entered into between the Parties, hereby amends the Agreement pursuant to the following terms and conditions.

1. Amendments. As of the Effective Date, the Agreement is hereby amended as follows:

Article 3, paragraph 3.2 is amended to read as follows:

Additional Compensation. At the pleasure of the Board, it may choose to award the President additional compensation both annually and at the end of his presidency in recognition of his work during the full term of his presidency

- (a) The Board will review the President’s work annually and will award him additional compensation up to the following amounts:
- 2023-24 academic year: \$55,000
 - 2024-25 academic year: \$60,000
 - 2025-26 academic year: \$65,000
 - 2026-27 academic year: \$70,000
 - 2027-28 academic year: \$75,000

These amounts will be payable at the time they are awarded.

- (b) At the time of the President’s Separation of Service, the Board may also look at the President’s entire body of work during his time at the university and award an additional amount up to the total amount awarded under this provision (\$325,000).

The additional compensation is subject to all appropriate federal and state withholding taxes and payable in accordance with the normal payroll practices and procedures of the University for full time exempt employees.

2. Retroactive effect. As of the Effective Date of this Amendment, all additional compensation awarded previously under paragraph 3.2 of the Agreement becomes due and payable as if awarded under this Amendment to the extent such treatment does not conflict with applicable laws and regulations (including 409A and 457(f)).

3. Remaining terms unchanged. All other terms and conditions remain as stated in the July 1, 2024, Agreement.

IN WITNESS WHEREOF, the President and the Board of Trustees execute this Agreement to be effective as of the Effective Date.

AGREED:

Michigan Technological University

Steven Tomaszewski, Chair, Board of Trustees

Date: _____

Jon Jipping, Chair of Leadership Committee,
Board of Trustees

Date: _____

AGREED:

Richard J. Koubek

Date: _____

IX. Action and Discussion Items

A. Emeritus Rank

Andrew Storer, Provost and Senior Vice President for Academic Affairs

1. Dr. Stephen L. Kampe, Professor Emeritus, Department of Materials Science & Engineering

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: It is recommended that the Board of Trustees approves the request to name Dr. Stephen Kampe Professor Emeritus in the Department of Materials Science and Engineering.

**Amendment to July 1, 2023, Employment Agreement for Richard Koubek
Effective October 11, 2024**

This first amendment (“Amendment”), dated October 11, 2024, (the “Effective Date”) to the July 1, 2023, employment contract (the “Agreement”) between Michigan Technological University (the “University”) and Richard Koubek (the “President”) (collectively, the “Parties”) and entered into between the Parties, hereby amends the Agreement pursuant to the following terms and conditions.

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(a) The Board will review the President’s work annually and will award him additional compensation up to the following amounts:

- 2023-24 academic year: \$55,000
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- 2025-26 academic year: \$65,000
- 2026-27 academic year: \$70,000
- 2027-28 academic year: \$75,000

These amounts will be payable at the time they are awarded.

(b) At the time of the President’s Separation of Service, the Board may also look at the President’s entire body of work during his time at the university and award an additional amount up to the total amount awarded under this provision (\$325,000).

The additional compensation is subject to all appropriate federal and state withholding taxes and payable in accordance with the normal payroll practices and procedures of the University for full time exempt employees.

2. Retroactive effect. As of the Effective Date of this Amendment, all additional compensation awarded previously under paragraph 3.2 of the Agreement becomes due and payable as if awarded under this Amendment to the extent such treatment does not conflict with applicable laws and regulations (including 409A and 457(f)).

3. Remaining terms unchanged. All other terms and conditions remain as stated in the July 1, 2024, Agreement.

IN WITNESS WHEREOF, the President and the Board of Trustees execute this Agreement to be effective as of the Effective Date.

AGREED:

Michigan Technological University

Steven Tomaszewski, Chair, Board of Trustees

Date: _____

Jon Jipping, Chair of Leadership Committee,
Board of Trustees

Date: _____

AGREED:

Richard J. Koubek

Date: _____



TO: Michigan Technological University Board of Trustees

FROM: Walter Milligan, Chair, Materials Science and Engineering

DATE: August 28, 2024

SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Materials Science and Engineering voted on August 28, 2024 to request that the Michigan Technological University Board of Trustees name Stephen L. Kampe as Professor Emeritus upon his retirement on January 4, 2025.

Steve has been on the faculty since 2008, after serving for 16 years on the faculty at Virginia Tech. He was the Department Chair in MSE at Michigan Tech for 9 years, was among the highest-rated and most popular teachers in the Department, and has a strong research legacy, including over 140 publications and presentations and 9 patents. Steve has been a great colleague, mentor and friend to many in the Michigan Tech community.

Approved

Walter W. Milligan

8/28/2024

Department Chair

Date

Michelle Scherer Digitally signed by Michelle Scherer
Date: 2024.09.04 21:32:23 -04'00'

College Dean

Date

Andrew J. Storer Digitally signed by Andrew J. Storer
Date: 2024.09.09 16:05:28 -04'00'

Provost and Senior Vice President for Academic Affairs

Date

Richard J. Koubek Digitally signed by Richard J. Koubek
Date: 2024.09.10 12:48:39 -04'00'

President

Date

B. Bachelor of Science in Aerospace Engineering

Andrew Storer, Provost and Senior Vice President for Academic Affairs

IX-B. PROPOSAL FOR A BACHELOR OF SCIENCE (BS) IN AEROSPACE ENGINEERING

The faculty in the Department of Mechanical and Aerospace Engineering (MAE), under the umbrella of the College of Engineering, seek to establish a Bachelor of Science (BS) degree in Aerospace Engineering. This degree fills a gap in our curriculum offerings in an area with growing industry as well as student interest. Between Michigan and its bordering states of Wisconsin and Minnesota, there are only four other BS in Aerospace Engineering programs.

The BS in Aerospace Engineering will prepare students for professional practice in aeronautical and astronautical industries. The curriculum will follow Michigan Tech's signature hands-on education and integrate mechanical engineering science with theory and practice of aerospace engineering. The curriculum covers aeronautical and astronautical aspects of aerospace engineering, with an in-depth coverage of space systems and spacecraft engineering. Graduates of the program will be prepared for success in pursuit of graduate studies in the field or the opportunity to become leaders in the industry.

The proposal has been approved by the University Senate and University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

RECOMMENDATION: It is recommended that the Board of Trustees approves the Bachelor of Science (BS) degree in Aerospace Engineering.

C. Resolution to Accept the FY24 Audited Financial Statements

Nick Stevens, Treasurer

Brian Greko, Partner Plante Moran

IX-C. FY2024 AUDITED FINANCIAL STATEMENTS

Plante & Moran, PLLC has provided audit services and presented their opinion regarding the 2024 Financial Report for Michigan Technological University. After review, the Board of Trustees resolves the following:

RECOMMENDATION: That the Board of Trustees accepts the FY2024 audited financial statements, contained in the 2024 Financial Report, for the year ended June 30, 2024 as presented.

D. Five-Year State Capital Outlay Plan and Request

IX-D. FY26 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY26 Five-Year State Capital Outlay Plan and Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval and is included herein.

RECOMMENDATION: That the Board of Trustees approves the FY26 Five-Year State Capital Outlay Plan and FY26 Capital Project Request to be submitted to the State of Michigan.

| FY26 Five-Year State Capital Outlay Plan | | | | | | | |
|--|---|-------------------|-------------------------|-----------------------------|---------------------|---------------------------------|------------------|
| Rank | Project Name | Gross Sq. Ft. New | Gross Sq. Ft. Renovated | Total Project Costs (000's) | State Funds (000's) | Est. Const. Univ. Funds (000's) | FY Start/ FY End |
| 1 | Center for Convergence and Innovation (CCI) | 70,000 | 0 | 56,000 | 30,000 | 26,000 | 2025/2029 |

Description

1. Center for Convergence and Innovation (CCI): The Center for Convergence and Innovation (CCI) will help position Michigan’s economy as a leader in digital transformation through cutting-edge research, workforce development, and strategic partnerships. The CCI aligns closely with Michigan’s “Sixty by 30” and economic prosperity goals by supporting innovations in computing, connectivity, sensorization, and business in this new age of digital transformation fueled in part by the rapid advances in artificial intelligence. Hanover research (hanoverresearch.com) recently reported that four of the top ten fastest growing occupations will be Data scientist (45%), Information security analyst (32%), Software developer (26%) and Computer & information research scientist (23%). Supporting this growth, three of the top ten bachelors degree programs are System, networking, & LAN/WAN mgmt (34.2%), Computer programming (20.7%), and Computer & information systems security (16.9%). Each of these increases in demand will be addressed in the CCI building. Within Michigan, the Michigan Bureau of Labor, the state expects an 11.9 percent increase for computer and mathematical operations, an 8.5 percent increase in workforce demand for business and financial operations, a 9.1 percent increase for management — cumulatively generating over 58,000 projected new jobs by 2030.

Michigan Tech’s College of Computing was the first of its kind in Michigan, and enrollment has grown by 37 percent in the past five years and remains on track to double in size by the end of the decade. The College has been a key player in developing the Institute of Computing and Cybersystems (ICC), a research institute that forms an umbrella for the growing research activity in these areas. The ICC had \$4.1M in research expenditures in FY24. The College of Computing had FY24 research awards totaling \$6.8M and \$5.6M in research expenditures. Nationally, Michigan Tech is now in the top 100 for computer and information science research expenditures in the most recent NSF-HERD rankings for FY22, a rise in the rankings from 150th when the college was formed. In addition, enrollment in Michigan Tech’s College of Business has grown 38% in the last five years. Taken together, the two colleges account for more than 77 percent of MTU’s growth in the last five years, and both colleges have the highest enrollment in their history. Congruent with the state’s long-term economic transformation, this project will provide a place for existing computing, data science, computing and business programs to converge to spur new degree programs, entrepreneurial projects, outreach to businesses and communities, increased industry and government funding for research, and the development of a highly agile workforce prepared to implement digital transformation solutions throughout Michigan. Students and employees from the College of Computing and College of Business will be co-mingled to promote cross-disciplinary collaboration, innovation, and entrepreneurship. The design of the building will intentionally promote connections among faculty and students across colleges. Reconfigurable spaces and theme-based shared digital lab facilities will be spread throughout. These facilities will include convergence centers of excellence (cybersecurity, data science, health informatics, fintech, business analytics, and tech-based entrepreneurship); active-learning, computer-learning, and online-learning classrooms; flexible collaboration spaces open to all; student learning centers; open-access conference rooms; a reconfigurable digital makerspace; and an entrepreneurship training hall. In addition to meeting Michigan Tech’s convergence needs, this building will facilitate continued aggressive growth in areas that will help Michigan reach our goal of talent retention/attraction. The estimated investment of \$56,000,000 will allow Michigan Tech’s College of Computing and College of Business to realize their combined potential and ensure Michigan’s future economic prosperity.

X. Reports

A. A.E. Seaman Mineral Museum Report

John Jaszczak, Director, and John and Phyllis Seaman Endowed Curator
Professor of Physics

*Legacy, Vitality, and Future
of the
A. E. Seaman Mineral Museum
of Michigan Tech*



John A. Jaszczak
Director & John & Phyllis Seaman
Endowed Curator



State of Michigan Enabling Acts of 1861 and 1885

**...to establish the Michigan
Mining School
“at or near the village of
Houghton.”**

**The school’s trustees/board shall
“provide for obtaining and establishing a complete
collection of minerals of the Upper Peninsula, and
properly classifying the same”.**





Our Legacy: Arthur Edmund Seaman

1858 – 1937 Educator & Collection Builder
Curator 1902 – 1937
(Museum named in his honor 1932)



Seamanite $Mn_3(PO_4)B(OH)_6$
Bengal (Canon Mine),
Stambaugh, Iron Co., MI (1930)



***Board of Control
Resolution
Oct. 11, 2001***



***"Resolved that the
A. E. Seaman Mineral Museum
shall be a distinctive and permanent entity of
Michigan Technological University for all time."***

***Minerals will be of ever-increasing importance in the
4th industrial revolution to meet the demands of **energy**,
sustainability, and new **technologies**.***

The Mineralogical Museum of Michigan

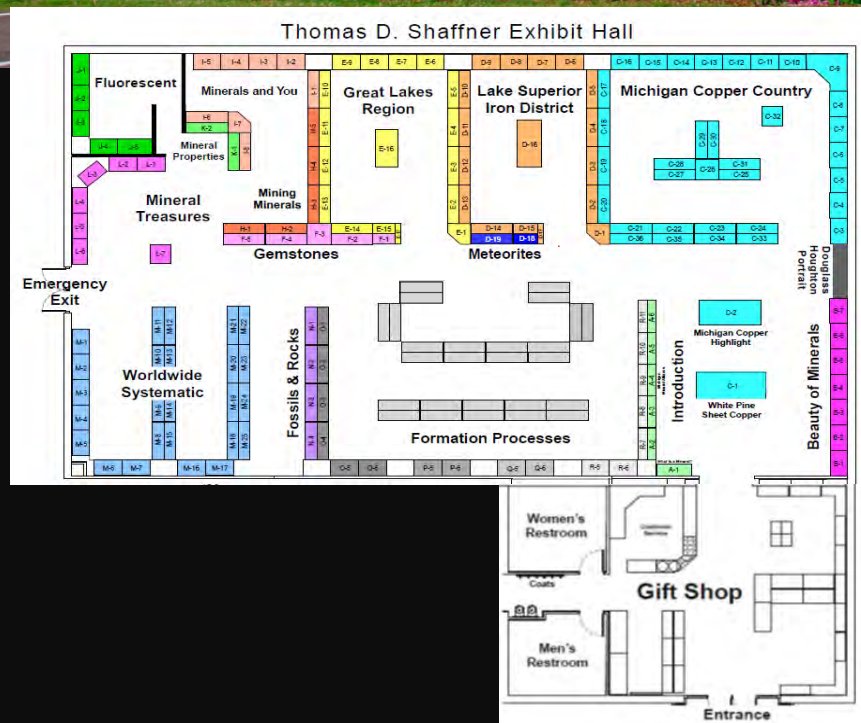


Michigan House Concurrent Resolution (1990)



Keweenaw National Historical Park 1992

Present Vitality



Michigan Mineral Alliance partnership with the University of Michigan



since 2015
Co-own and curate the
University of Michigan
mineral collection.

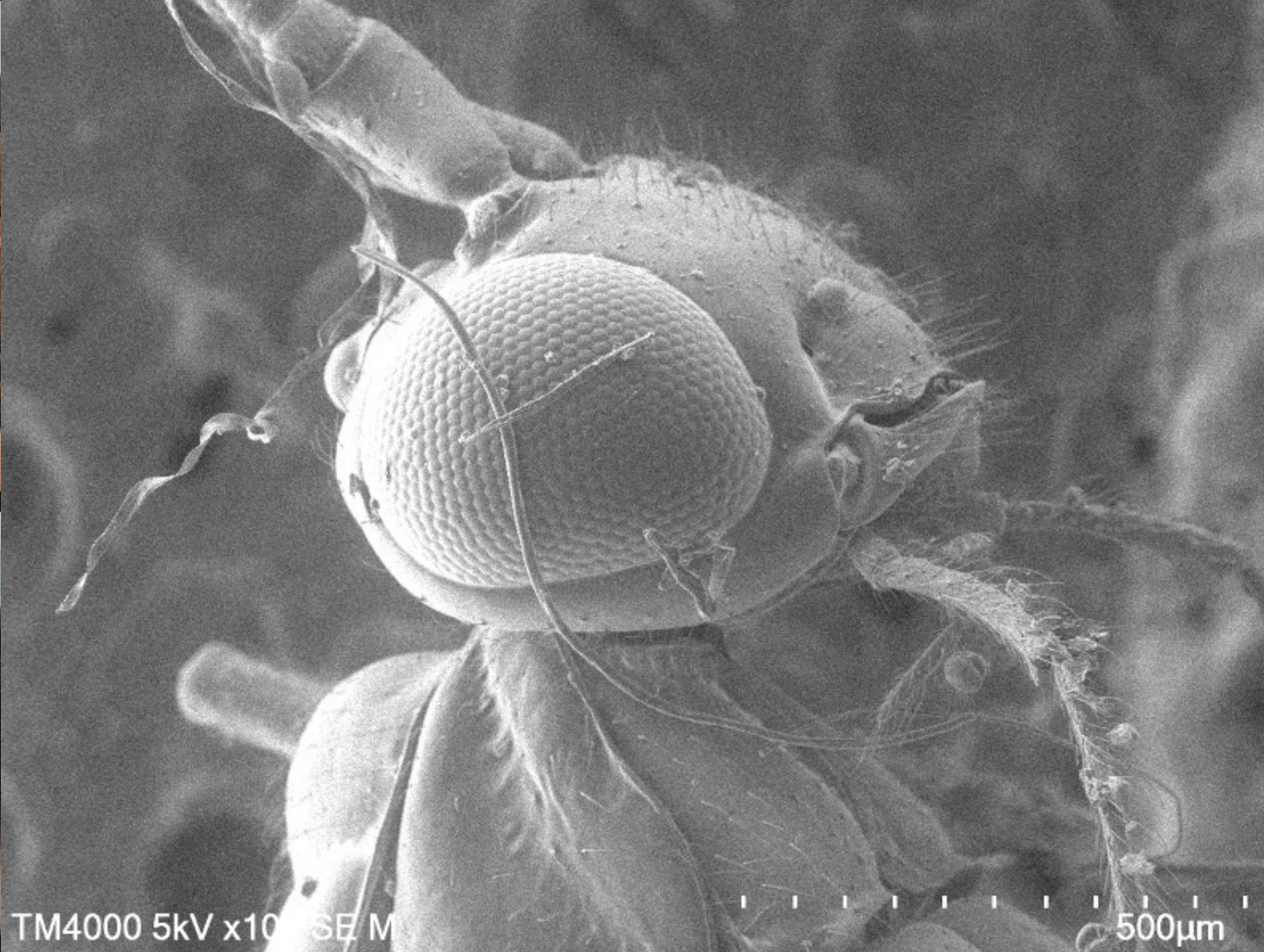




Teacher Partnerships- *Minerals! Inspire a Love of Science*



Hitachi INSPIRE! Collaboration



Mining of Minerals

A Mine is an Industrial Complex

A modern Mine is more than just the hole. Surface facilities include everything from offices, to processing facilities to machinery and equipment that ensures environmental protection. The image below shows surface facilities at the Eagle Mine near Marquette, MI



Mining has come a long way...





The 21 Best Museums in Michigan [2024]



[Amar Hussain](#)

Updated: August 3, 2024, 8:00am CDT



Edited by: [Michael Y. Park](#) & [Keri Stooksbury](#)

The Best Museums in Michigan

1. A.E. Seaman Mineral Museum of Michigan Tech (Houghton)



Image Credit: A.E. Seaman Mineral Museum of Michigan Tech

On the grounds of Michigan's Technological University, the [A.E. Seaman Mineral Museum of Michigan Tech](#) is entirely dedicated to minerals found around the world.



Type: Donald C. Gabriel

JOHN A. JASZCZAK
A. E. Seaman Mineral Museum
Michigan Technological University
1404 E. Sharon Avenue
Houghton, Michigan 49931
jaszczak@mtu.edu

CARL A. FRANCIS
Maine Mineral & Gem Museum
PO Box 500
Bethel, Maine 04217
cfrancis@mainemineralmuseum.org

Figure 1. The Donald C. Gabriel native copper specimen (8.3 cm tall), catalog number DCG 1110, from the Central mine, Central, Keweenaw County, Michigan, now in the collection of the A. E. Seaman Mineral Museum. George W. Robinson photo.

The Gabriel Copper

At the A. E. Seaman Mineral Museum of Michigan Technological University

AMONG THE MANY OUTSTANDING NATIVE COPPER SPECIMENS in the collection of the A. E. Seaman Mineral Museum that originate from the historic copper mining district in Michigan's Upper Peninsula, one specimen stands out for its aesthetic balance, quality of crystallization, lovely patina, interesting twinning, and perfect size—the Gabriel Copper from the Central mine in Keweenaw County, Michigan. Images of this specimen have been used extensively, making it an iconic representation of the museum and its heritage.

Dr. John A. Jaszczak is director and John and Phyllis Seaman Endowed Curator of the A. E. Seaman Mineral Museum and a professor of physics at Michigan Technological University.

Dr. Carl A. Francis is the curator of the Maine Mineral & Gem Museum and an executive editor of Rocks & Minerals.

Who's Who in Mineral Names



John A. Jaszczak
(b. 1961)

Jaszczakite /jəˈzɑːk ɪt/, [(Bi,Pb)₂S₃][AuS₂], is a new mineral from the Nagyborzsony gold deposit in northern Hungary, described by Luca Bindi and Werner Paar (2017). It is opaque, tin-white, and has a metallic luster and a black streak. It is brittle with an irregular fracture. Jaszczakite is found as subhedral to anhedral grains, with a maximum size of 250 μm, is intergrown with arsenopyrite, cosalite, bismuth, and quartz, and is closely associated with pyrite, marcasite, sphalerite, chalcopryite, gold, bismuthinite, ikonolite, and jonassonite (a related species). It is rare; to date it has been found in only one polished section. The Vickers hardness number (VHN5) ranges between 115 and 132, with an average of 122 kg mm⁻². The calculated Mohs hardness is 2.5–3, and the calculated density is 7.327 g/cm³. In plane-polarized light jaszczakite is weakly birefractant and pleochroic from light gray to a slightly bluish-gray. It is distinctly anisotropic with rotation tints of green and purple, very similar to those of jonassonite. From electron microprobe measurements the empirical formula (based on 9 atoms per formula unit) is Au_{1.00}Ag_{0.01}Bi_{0.99}Pb_{0.01}Cd_{0.01}Sb_{0.01}As_{0.01}Se_{0.01} or, according to the structure refinement results, [(Bi_{0.99}Pb_{0.01}Ag_{0.01}Cd_{0.01}Sb_{0.01}As_{0.01}Se_{0.01})₂S₃][AuS₂]. Jaszczakite is orthorhombic, space group *Pmmn*, with unit-cell parameters *a* = 3.858(1), *b* = 12.552(3), *c* = 9.289(2) Å, *V* = 449.83(8) Å³, *a*:*b*:*c* = 0.3074:1:0.7400, *Z* = 2. From a structural point of view, jaszczakite is the S-Bi analogue of buckhornite, (Pb₂BiS₃)(AuTe₂). Alternating Au-S and (Bi,Pb)-S layers are held together by weak van der Waals attractions. Jaszczakite is named in honor of Dr. John A. Jaszczak, professor of physics at the Michigan Technological University and director and John and Phyllis Seaman Endowed Curator of the A. E. Seaman Mineral Museum, for his significant contributions to the physics and mineralogy of graphite.

JOHN RAKOVAN
New Mexico Bureau of Geology and Mineral Resources
801 Leroy Place
Socorro, New Mexico 87801
john.rakovan@nmt.edu

John Anthony Jaszczak was born in 1961 in Garfield Heights, Ohio, the son of Stephen M. and Josephine M. Jaszczak. It was mineral collecting that led Jaszczak to a career in science, one of many examples of minerals inspiring a love of science. His earliest recollection of collecting minerals was when he was about four years old, picking up stones from the gravel driveway at his home in Parma, Ohio, where he had just moved. Jaszczak's father would also save white quartz beach pebbles for him when he found them. Around the age of nine or ten, Jaszczak wanted to be a geologist and craved getting a "geology set" (akin to a chemistry set) for Christmas. His parents did deliver, and he still has the rock pick and jolly balance as mementos. He occasionally was able to acquire a few inexpensive specimens from the gift shop at the Cleveland Museum of Natural History.

Jaszczak's interest in minerals and his collection really took off when friends in his neighborhood introduced him to the one lapidary shop that he ever knew of in the Cleveland area, Rocks & Chips. Jaszczak used to save his money (he especially remembers weeding gardens, cutting lawns, and serving as an altar boy at weddings) and then beg his parents to take him to Rocks & Chips to spend it. He recalls having to look at *everything* on display (twice) before making his choices—while his family would wait patiently (but barely) for him to finish. Equally important at the time (around 1972) was joining the Parma Lapidary Club. The club had a juniors group in which one member in particular, Vicki Bobofchak, was both very generous with her time and sharing specimens with the junior members. Bobofchak gave Jaszczak a sodalite specimen from the Bancroft area, Ontario. In the early 1990s he found that this specimen contained small graphite spheres, a coincidence that would have a profound effect on his mineralogical interests! The club also taught its junior members how to exhibit competitively, which a friend and Jaszczak did for the first time in 1974 at the Cuyahoga County Gem and Mineral Show in Berea, Ohio. When he was about thirteen, and with the help of his father, Jaszczak built his first display cabinet, and then a second one about a year later, both of which he still uses today.

During college at Case Western Reserve University in Cleveland, Ohio, Jaszczak started out as a chemistry major

Dr. John Rakovan, an executive editor of Rocks & Minerals, is state mineralogist for New Mexico and senior mineral museum curator, New Mexico Bureau of Geology and Mineral Resources.

ROCKS & MINERALS

For Everyone Interested in Minerals, Rocks & Fossils



Ettringite!



Michigan Technological University
John and Phyllis Seaman
Endowed Curator
of the
A. E. Seaman Mineral Museum

Established
March 11, 2022
in honor of Arthur E. Seaman and Wyllys A. Seaman,
on the occasion of John's 103rd birthday

 Michigan Technological University
 A. E. SEAMAN MINERAL MUSEUM OF MICHIGAN TECH

Our Future...

Endless
opportunities!

Strategic
Planning



Mission → Inspire & Teach

Vision → “Wow!”

Values → Stewardship

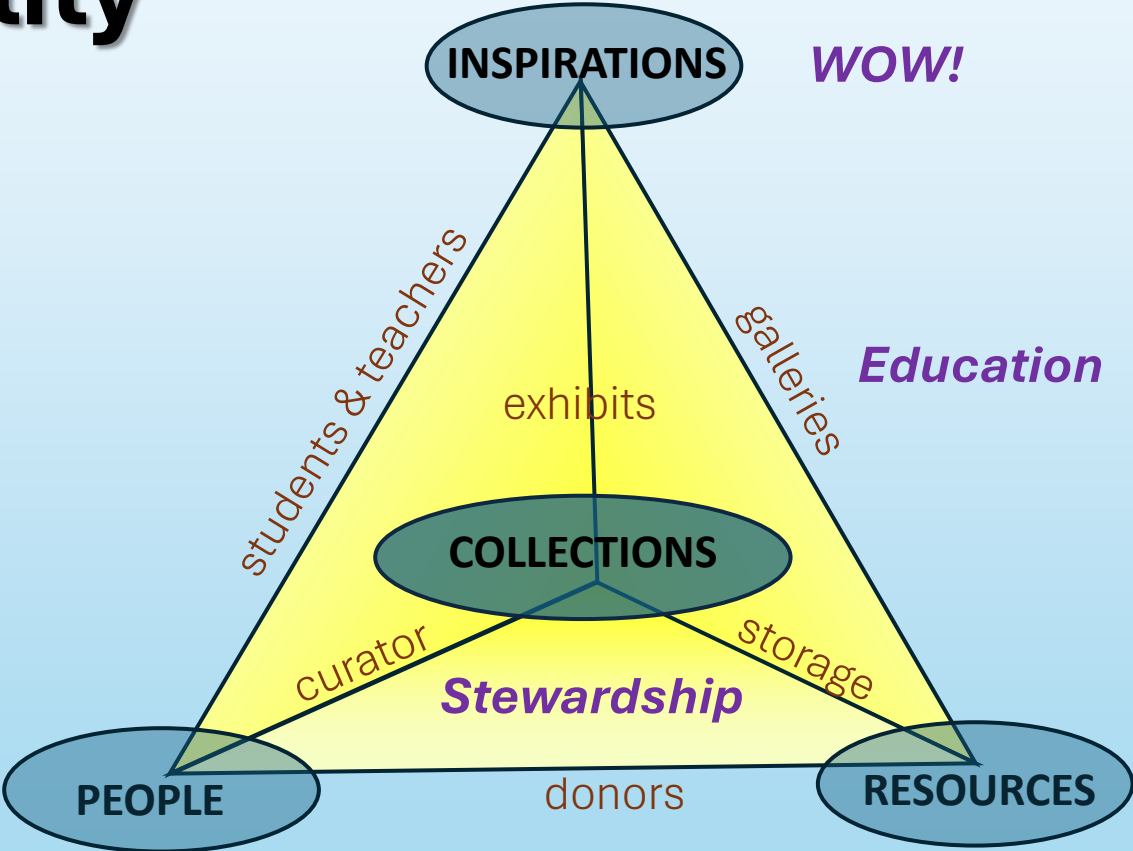




Museum

An institution that preserves and interprets material evidence. The name derives from classical origins: in Greek, meaning “**the seat of the Muses**”, the Greko-Roman goddesses who were said to be **the sources of inspiration of the arts and sciences**.

Sustaining our Legacy, Building Vitality for the Future





Collections

4,000

38,000



Alliance Class!
Lapidary
Gemstones
St. David's
Accessories
Cura
Research

A. E. Seaman Mineral Museum
at Michigan Technological University

Species: Copper
Cat Num: DCG 1110
Locality: Michigan, Central
Description: Very aesthetic group of large (to 3.8 cm), well-formed, banded tetrahedra, crystals. Rich reddish-brown patina.

To Search: 1. Click a green button 2. Type the particular value you want (first letters) 3. Click yellow for summary
To use the "i" boolean search, use "i" for a wildcard.
To add a photo:
Put the photo file in the Photo subdirectory.
Enter the file name: for example, file.jpg, above as photo:file.jpg. For reference purposes, an image of 800 to 900 pixels is usually sufficient.



Do
Visitors
Community
Tourists

Staff
Teachers

17,000
Students
Collection Committee
People





ations

Aspirations and Opportunities

- Michigan Tech Reputation
- Extended Outreach
- Self-guided Tours
- Strategic Collection Growth (golden age)
- Increased Staffing
- Expanded Facility
- Financial Stewardship



Michigan Tech





from
legacy
to posterity

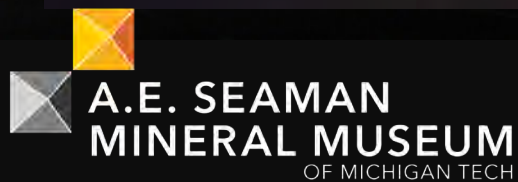


*Thanks to: Stan Dyl, George Robinson, Chris Stefano, Ted Bornhorst
Jack & Phyllis Seaman*

Many Museum friends & donors past & present

Patty Cobin & Museum staff

Theresa Coleman-Kaiser and Ruth Archer



B. Center R&D Activities & MTU/ACM Partnership

Jeff Naber, Endowed Professor, Mechanical and Aerospace Engineering



Michigan Tech

Center R&D Activities & MTU/ACM Partnership

Jeff Naber

Center Director

University Professor

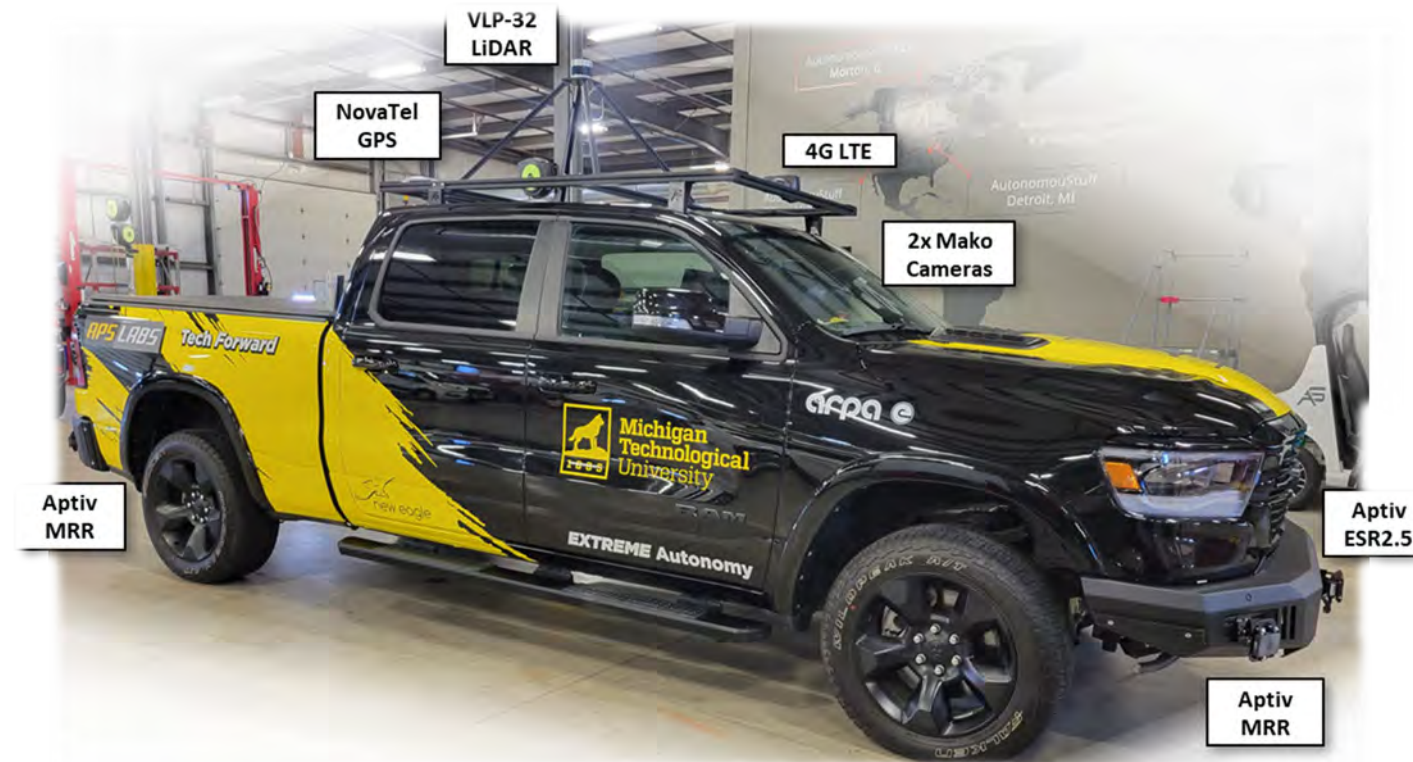
Richard & Elizabeth Henes Professor in Energy Systems
Mechanical and Aerospace Engineering

APS LABS

Hub linking MTU, industry, and federal partners to drive advancements in energy and mobility.

Functions:

- Hands-on Professional Development
- Applied R&D
- Design & Prototyping
- Characterization, verification, and validation



Engine Programs

Spontaneous Pre-Ignition test procedure for TOP-Tier Fuel



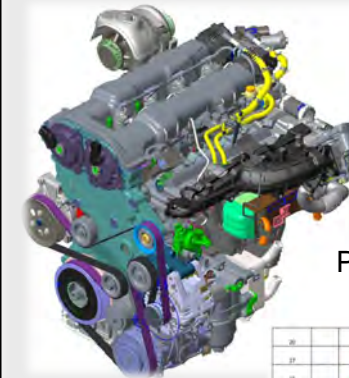
U.S. DEPARTMENT OF ENERGY

Energy Efficiency & Renewable Energy Vehicle Technology Office

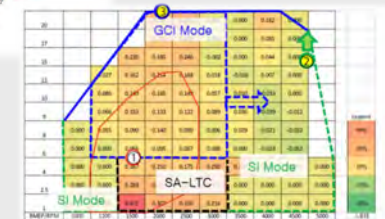
Flex Fuel NG/H₂ ICE for Off-Road





Co-optimized Multi-Mode GCI Light Duty Engine (Hyundai, MTU, Phillips 66)



Dual CVVD/CVVT PFI/DI + SI/HCCI/CI



Range 1500 to 3000 RPM
Avg BTE gain Delta 17.5% (GCI v SI)

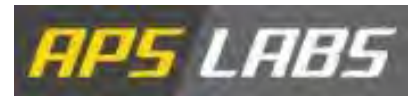
CI Natural Gas (H₂) ICE for MD/HD




Additive-Mixing for Low Temp GCI



Michigan Tech



Vehicle Electrification and Prototyping

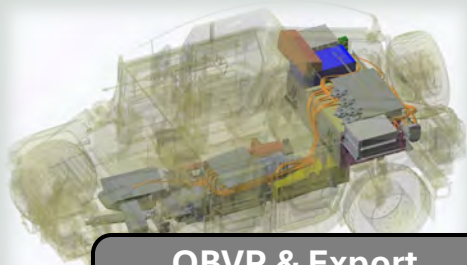


Army Series tHEV HMMWV w/ OBVP



Functionality & Performance:
 Silent watch, Silent mobility,
 Electrical power generation & export

MTU
 Designed
 Built
 Delivered



OBVP & Export

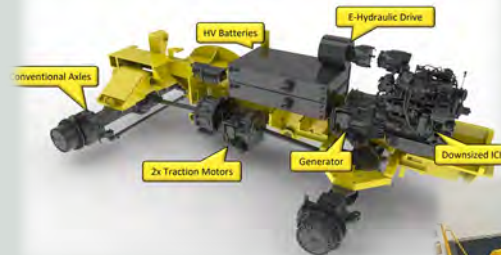
HV DC LV DC 3φ AC



Extensive testing by Army

Hybrid Off-Road Material Handler

- 42% CO₂ / 46% fuel reduction
- Increased Performance & Functionality



✓ Design

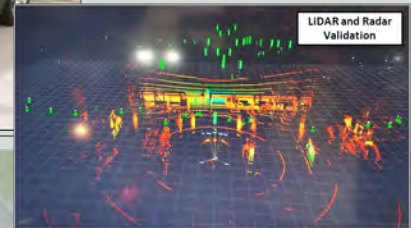
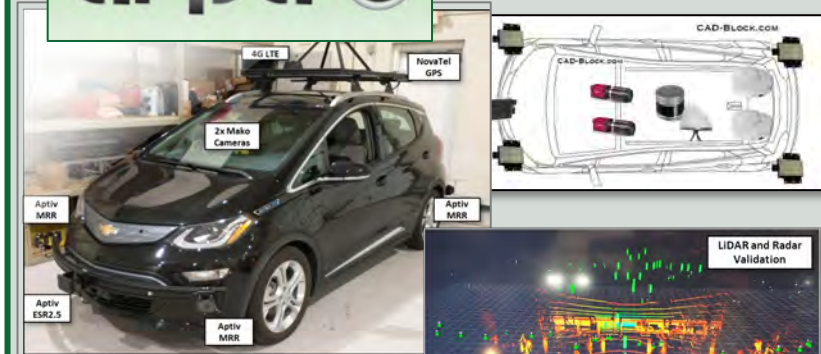
✓ Built



**V&V Testing
 Demonstration:
 October 2024**

PETTIBONE

Connected & Automated Vehicles (CAVs)



L4/L5 CAVs (MTU/ACM)

- Fully open HW/SW
- Development, testing, sensors, perception, control



MTU tHEV Series HMMWV - Assured Mobility



| Key Results | |
|--|-------------------------------|
| Performance | |
| Silent Mobility | 51 mi |
| Silent Watch | 26 hours |
| Acceleration (0 - 30MPH) | 4.3 s |
| Range | 301 miles |
| Power Generation + Export Power | |
| 600VDC | 254kW Peak 46kW Continuous |
| 28VDC | 32kW |
| 3Φ 208VAC | 21kW |

RCCTO - Rapid Capabilities and Critical Technologies Office

Increased Functionality: Silent Watch, Silent Mobility, & OBVP

Partners: Pilot Systems, Soli Engineering, GS Engineering
 Suppliers: Cascadia, New Eagle, E-Matrix, US Hybrid, EMP, Terzo, TCCI...



AMERICAN CENTER FOR MOBILITY

POWERED BY



**Michigan
Technological
University**

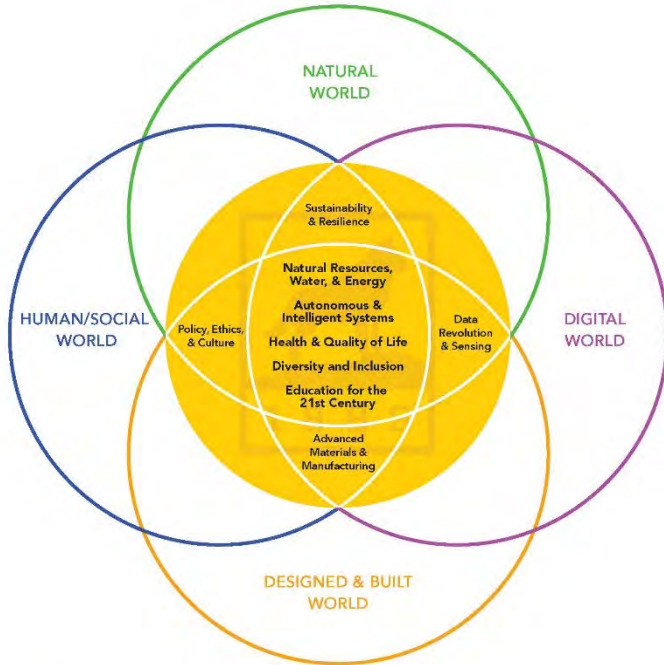
ACM – MTU Partnership

Leverages \$200M investment

Tech Forward



Michigan
Technological
University



DEVELOP solutions to natural resource, water, and energy problems.

BUILD innovative autonomous and intelligent systems.

CREATE technological solutions to enhance human health and quality of life.

PREPARE culturally receptive leaders for a diverse world.

REDEFINE education for the next generation.

mtu.edu/techforward



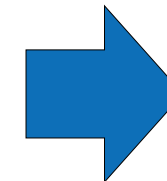
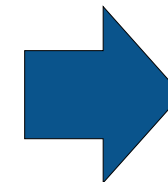
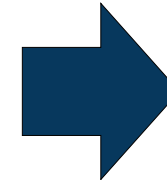
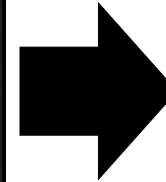
MICHIGAN TECH



MICHIGAN TECH'S TOOLKIT



MICHIGAN TECH'S IMPACT



AMERICAN CENTER
FOR MOBILITY

POWERED BY



Michigan
Technological
University

Builds on over \$20M in joint Federal Funding

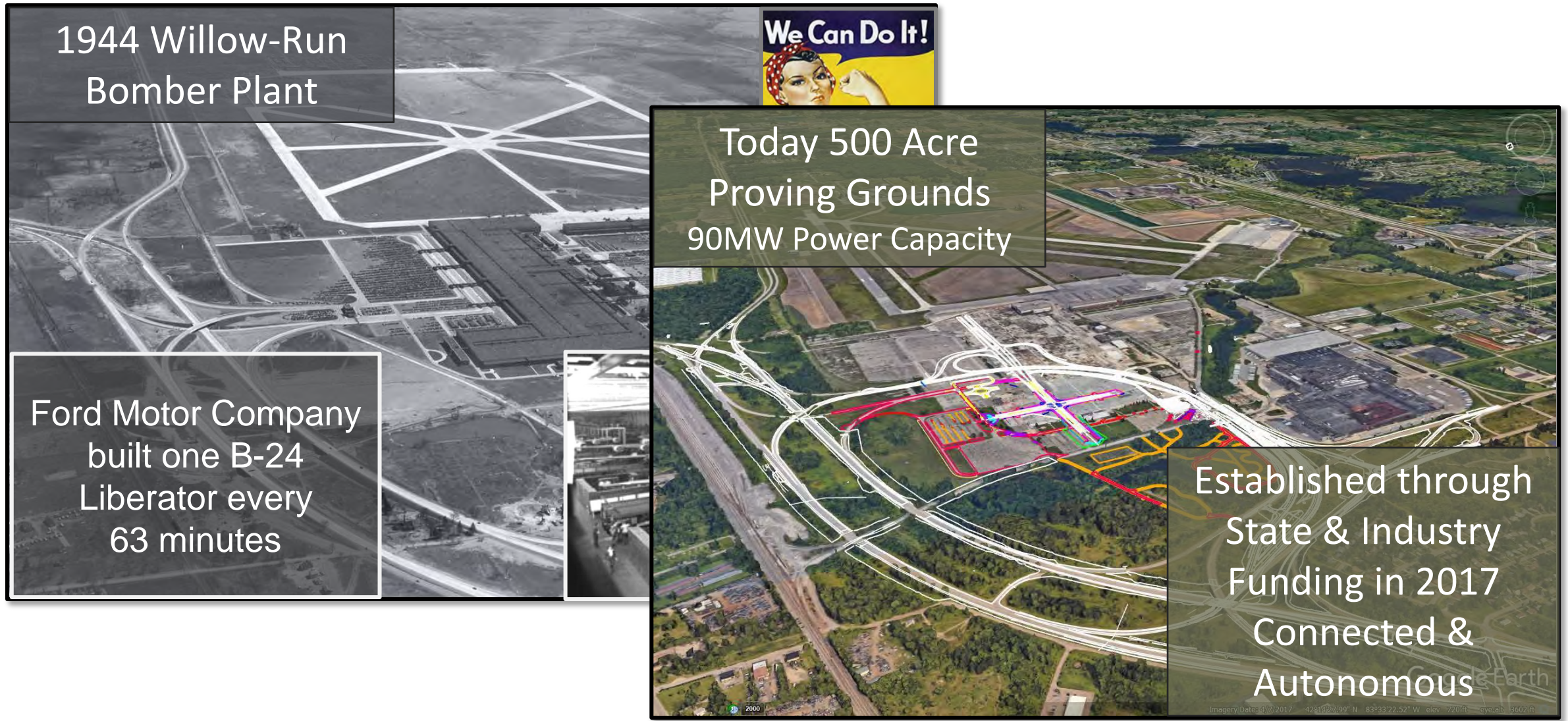
ACM History

1944 Willow-Run
Bomber Plant



Today 500 Acre
Proving Grounds
90MW Power Capacity

Ford Motor Company
built one B-24
Liberator every
63 minutes





Heated VRU target

EV / EVSC Interoperability



Joint Office of Energy and Transportation



EV CHARGING BASECAMP

STG-1
2901 Airport Dr.

Six bays (480VAC – 80A)



MTU/ACM Partnership Celebration & Open House

October 17, Starting at 9:00 AM

2701 Airport Dr, Ypsilanti Charter Twp, MI 48198



AMERICAN CENTER FOR MOBILITY
SAFE. SUSTAINABLE. SECURE.

POWERED BY



**Michigan
Technological
University**

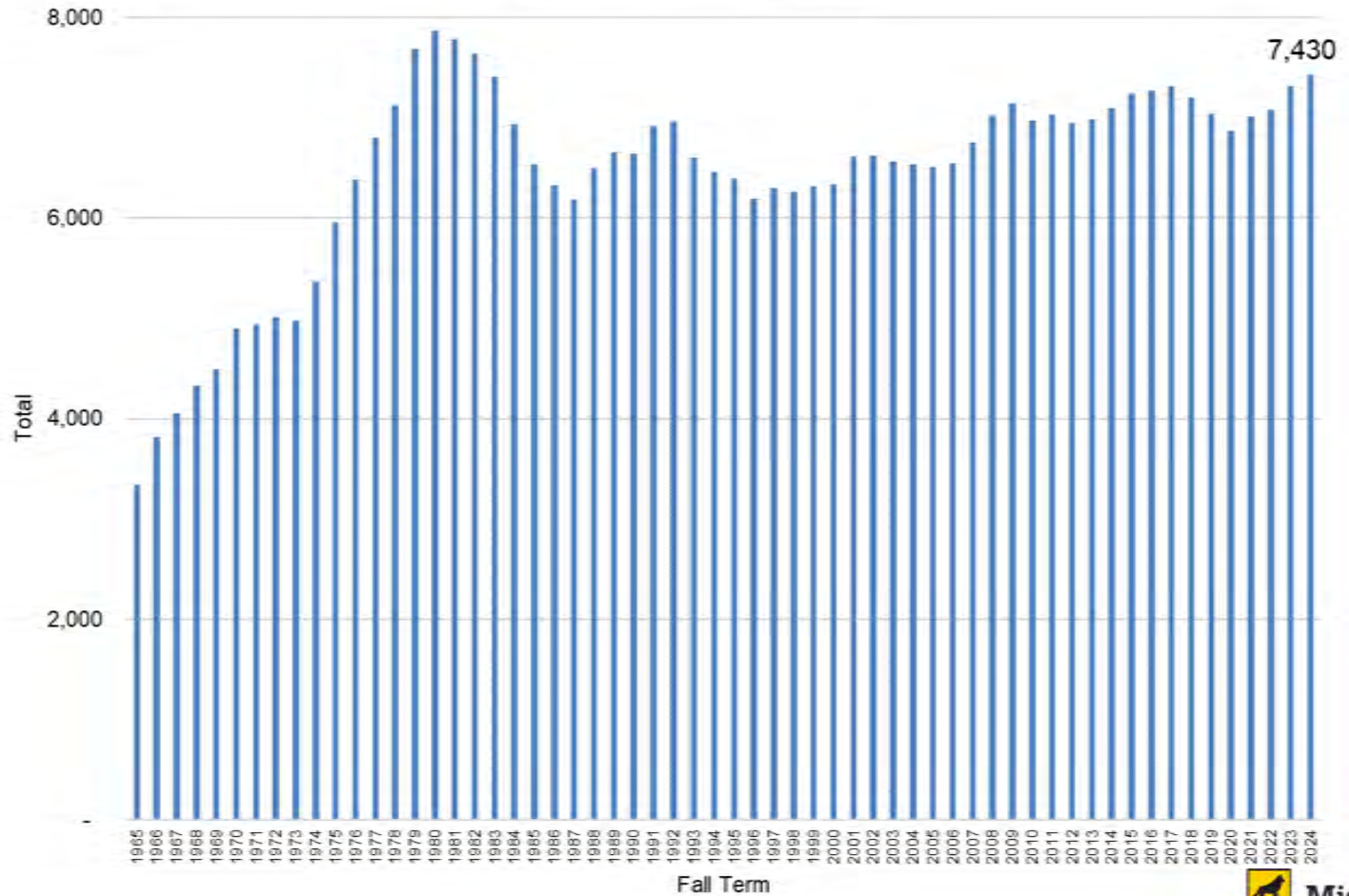
C. Recruiting and Enrollment Update

John Lehman, Vice President for University Relations and Enrollment

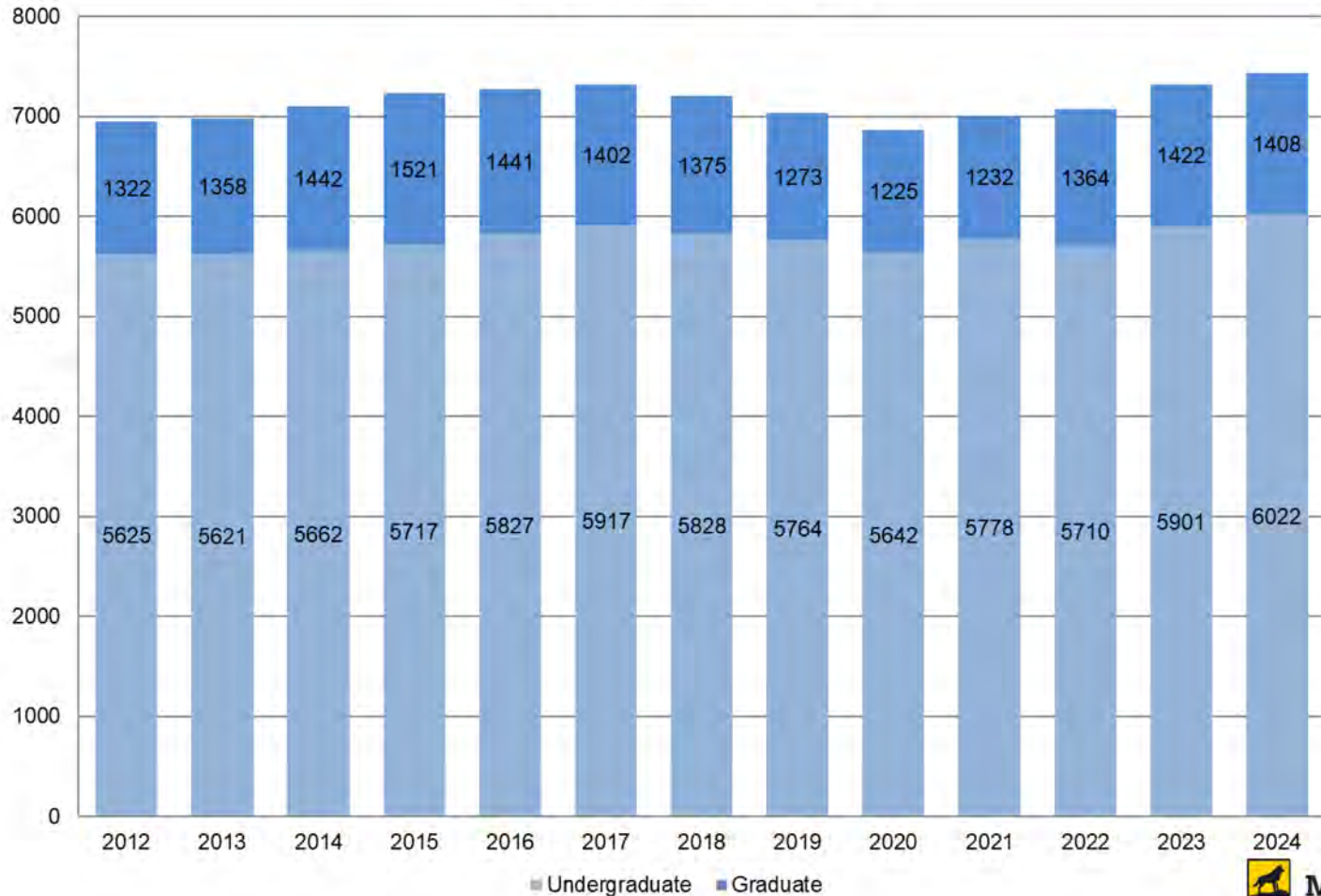
**Board of
Trustees
Formal Session**
Enrollment Update
October 11, 2024



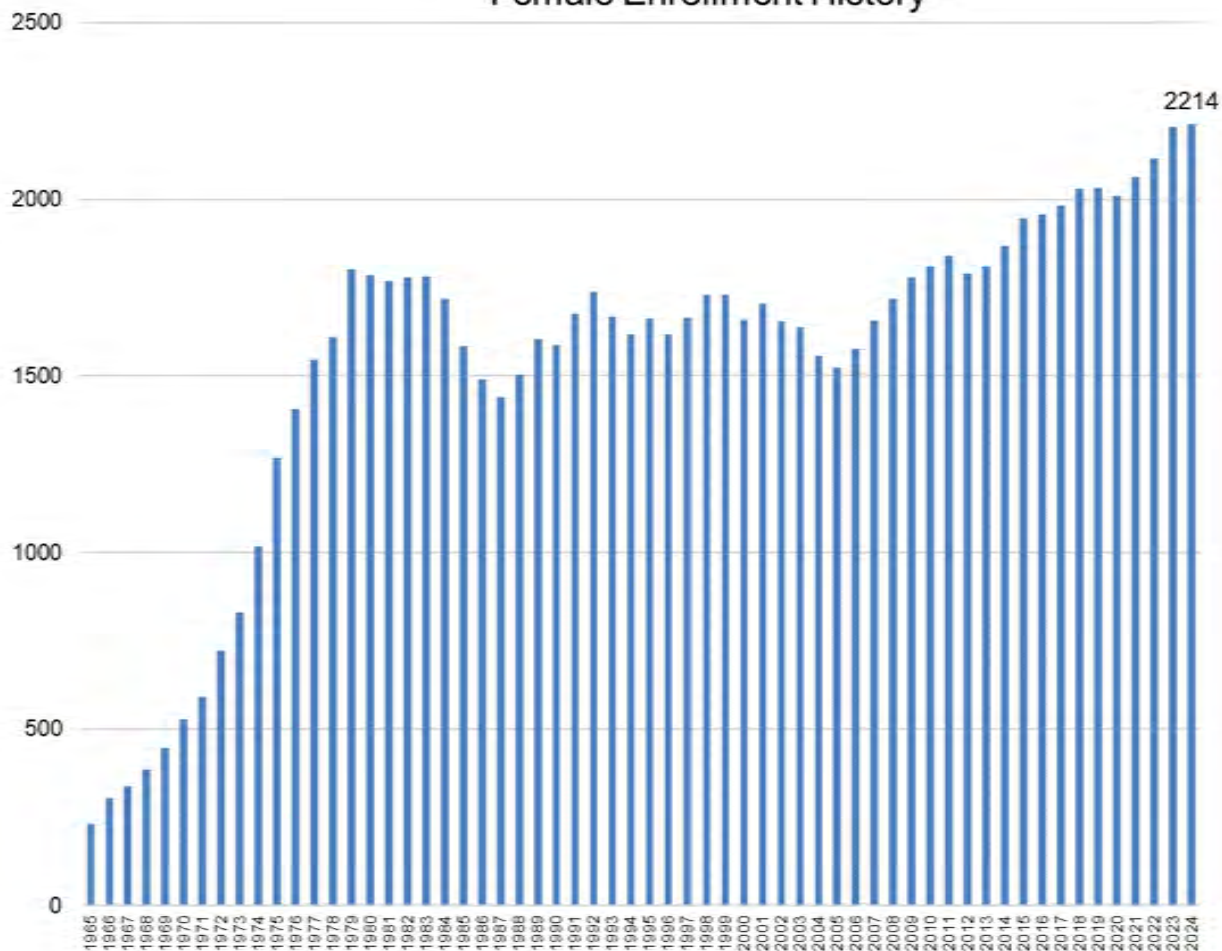
Fall Enrollment 1965-2024



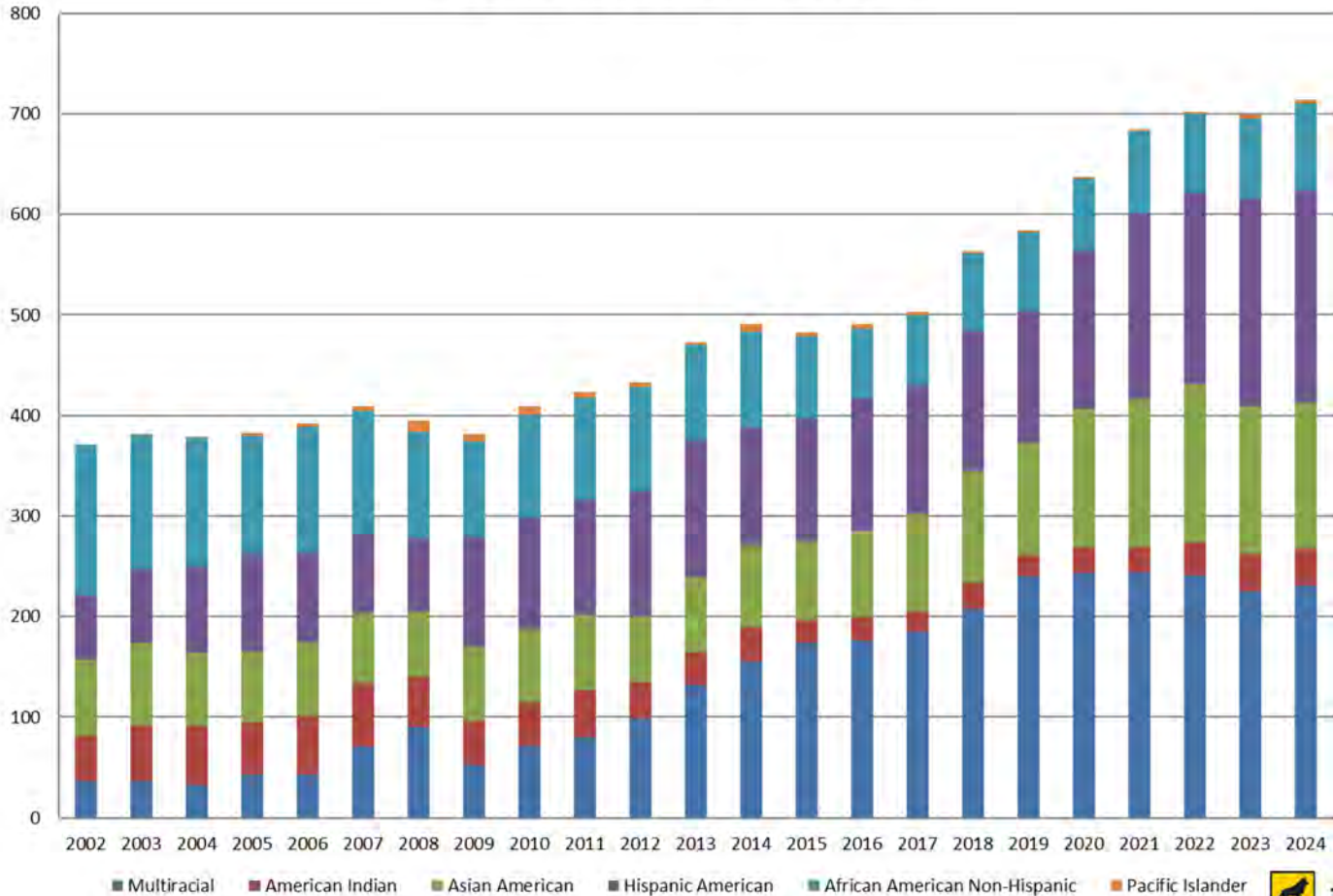
Total Enrollment by UG/G



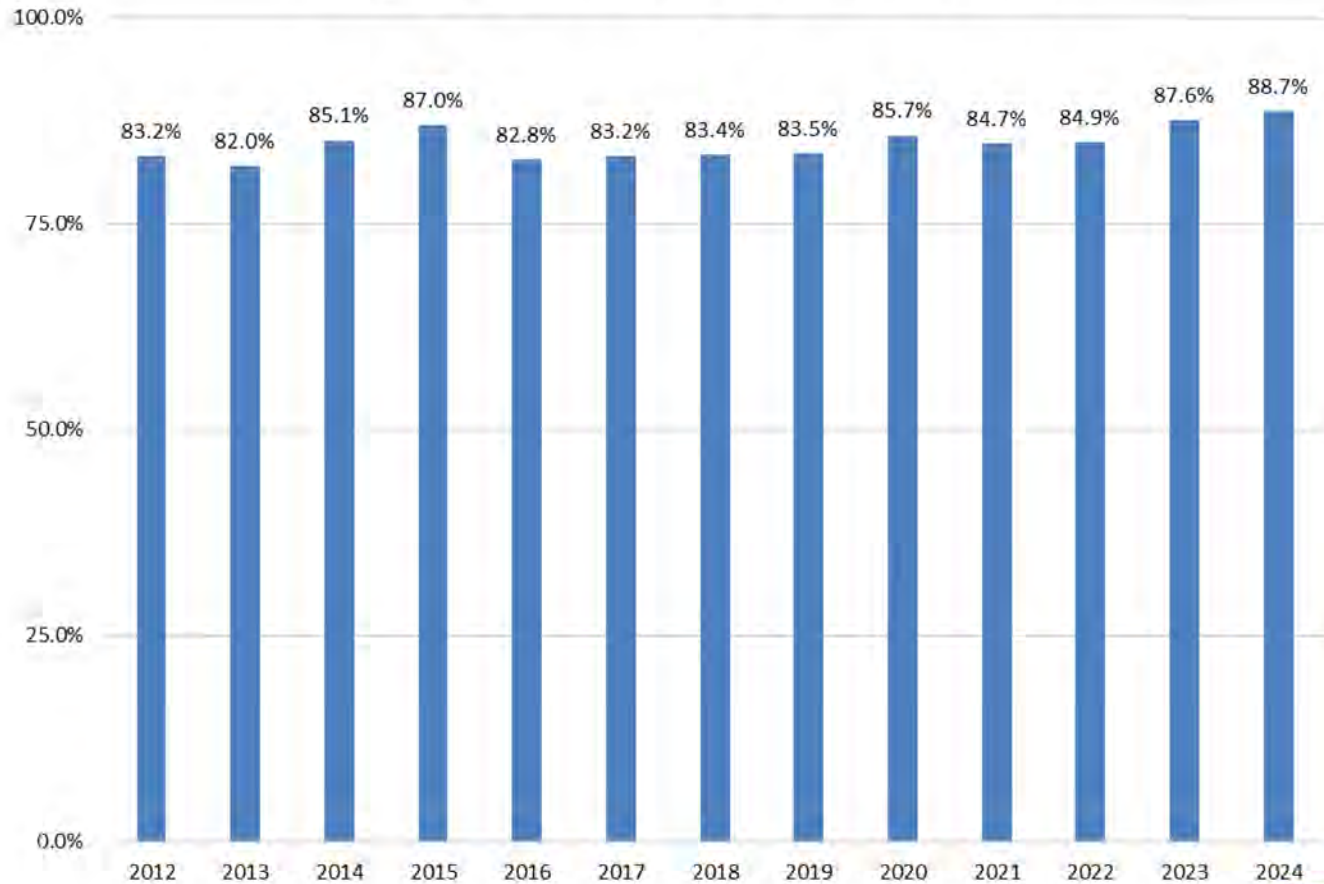
Female Enrollment History



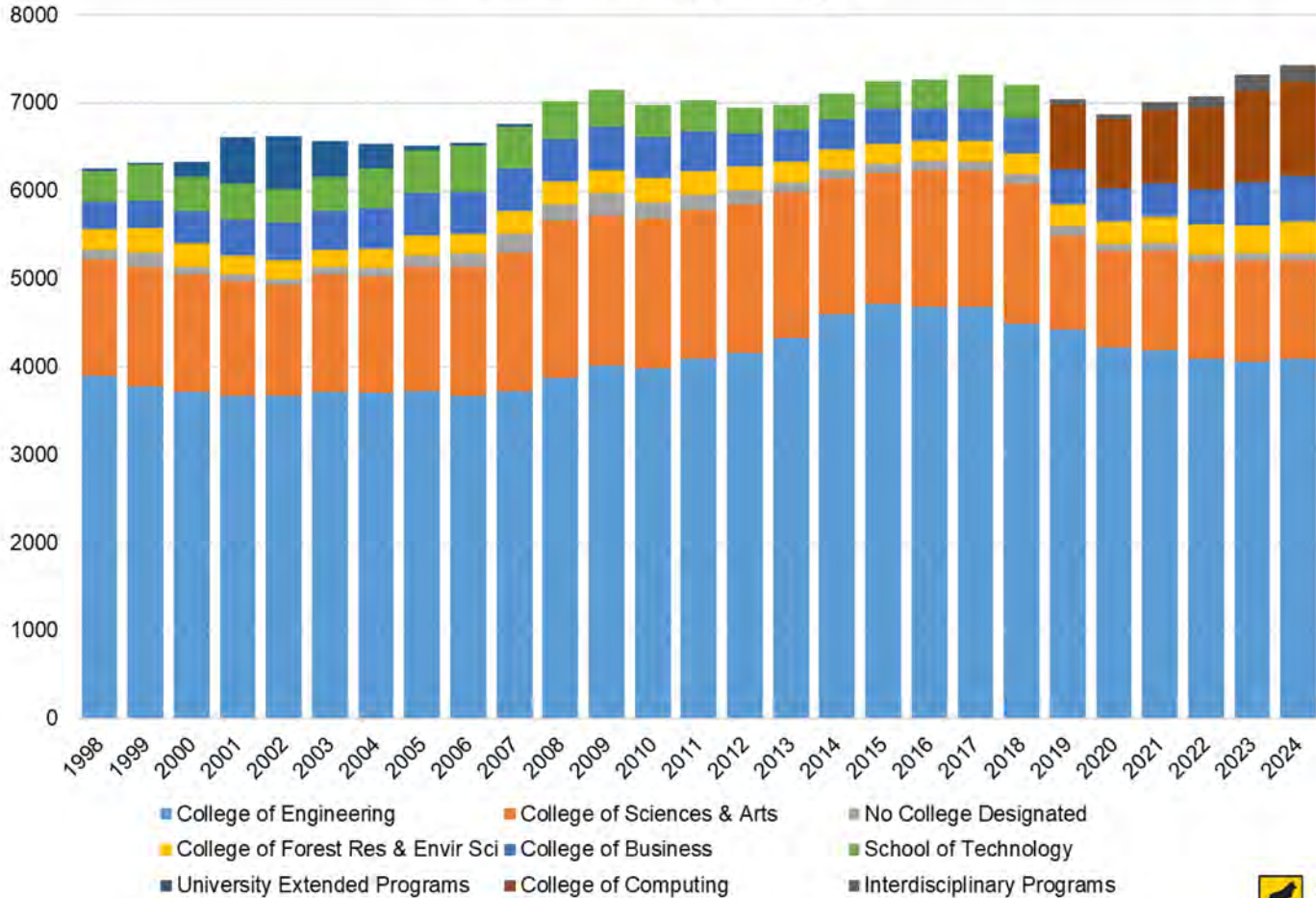
Domestic Student Diversity



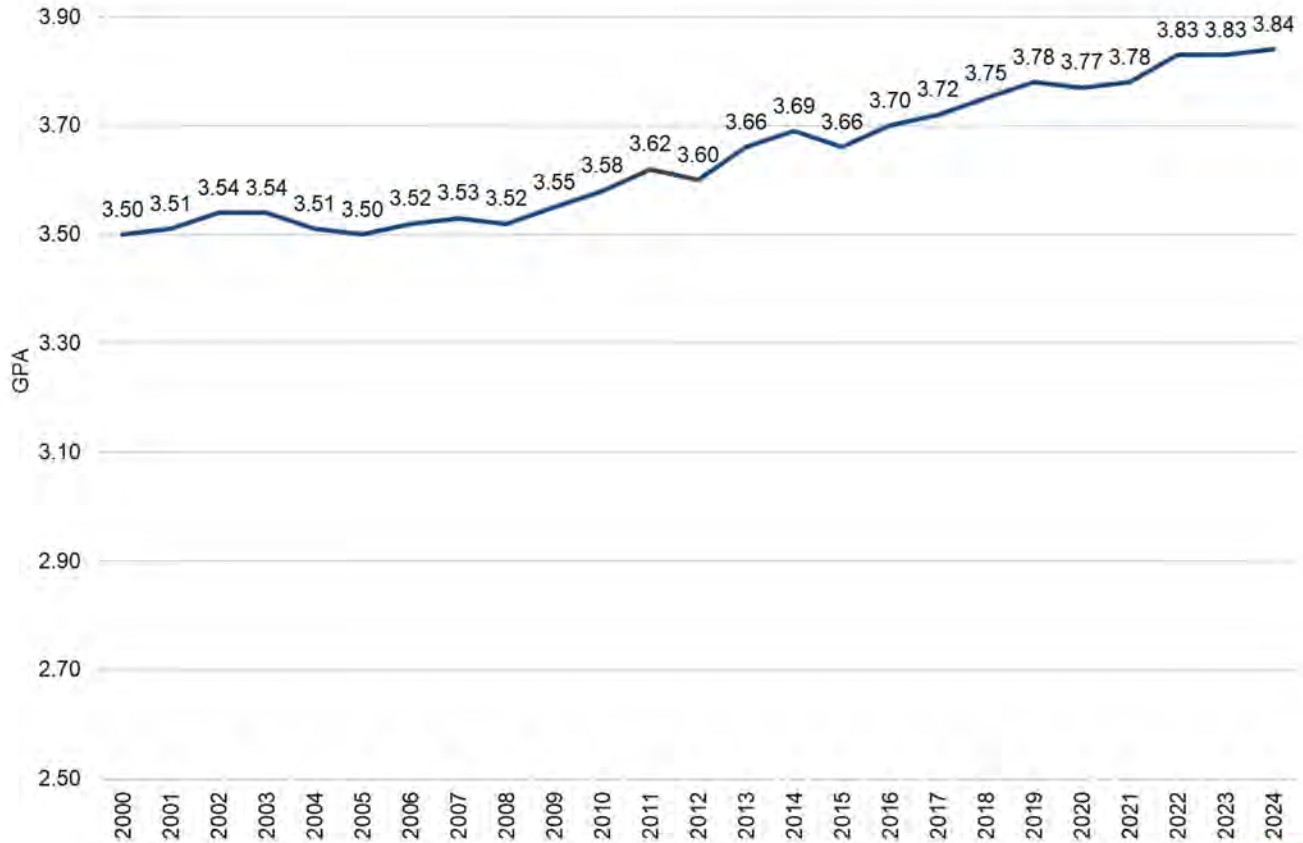
Michigan Tech First-to-Second Year Retention Rates



All Students by College



Freshmen GPA



Thank you

ROW NEEDS
MICHIGAN TECH



MICHIGAN TECH
1884
The first school of science in Michigan was founded in 1884 by the Michigan State Normal School, which later became Michigan State University. The College of Science at Michigan State University was established in 1900. The College of Science at Michigan State University is a leader in research in many areas, including geology, chemistry, physics, and astronomy. The College of Science at Michigan State University is a leader in research in many areas, including geology, chemistry, physics, and astronomy. The College of Science at Michigan State University is a leader in research in many areas, including geology, chemistry, physics, and astronomy.

D. Undergraduate Student Government
Cole Pierucki, USG Vice-President

USG Board of Trustees Update

Cole Pierucki, USG Vice President

October 11, 2024



Michigan
Technological
University





Welcome Week, O-Week, and K-Day

- Held three multi-hour publicity events as part of our initiative to get our name out there on campus, raise awareness for who we are and what we do.
- Brought out USG Mini-Golf





USG First-Year & Residential Elections

- 11 ran for First-Year, 1 for Residential, 1 for CFRES
- Elections closed 9/22, new members sworn in 9/25
- 24 out of 31 positions full, seeking appointments for the last 7 positions.
- Had just over 300 votes in the election, slightly disappointing numbers so we're looking into new ways to advertise our elections.



USG Liaisons

- Currently server on 32 different communities around campus.
 - Mostly to help provide undergraduate perspectives and give reports to the general body.
- AI Working Group
- Alumni Board of Directors
- Athletic Council
- AVPA
- Committee for Accessible and Affordable of Course Materials (CAALM)
- Cultural Events Fund
- Diversity Council
- Experience Tech Fee
- Food Advisory
- Friends of the Library
- Graduate Student Government
- Houghton City Council
- Inter Residence Housing Council (IRHC)
- Interfraternity Council (IFC)
- Non-Motorized Transportation Group
- Panhellenic Council
- Parent's Fund
- Public Oversight Committee
- Senate
- Student Affairs Diversity Liaison
- Student Commission
- Student Insurance Committee
- Student Success Council
- Student Success Council: Academics, Advising, Teaching
- Student Success Council: Physical Issues & Accessibility
- Student Success Council: Sense of Belonging/Campus Engagement
- Health Research Institute
- Tech Forward Initiative on Sustainability and Resilience
- Tech Traditions Committee
- Title IX Awareness Committee
- Voter Engagement Coalition
- CommUNITY Education Team



Committee Updates

Political Affairs - Brendan Leddy

- Ran a voter registration drive in collaboration with the IFC

Events - Konraad VanDyke

- Meet USG Event October 3rd

Student Affairs - Daniel Branagan

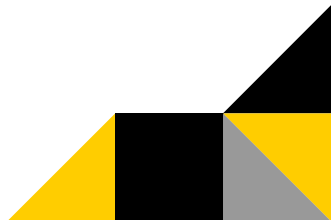
- Narcan Stations, Stop the Bleed Kits

Public Relations - Isobel Bowker

- Working on remodeling USG website to be more user-friendly

Ways and Means - Lily Ketelsen

- Researching potential GSG involvement





Thank you! Questions or Comments?

Cole Pierucki

usg-vice-president@mtu.edu



**Michigan
Technological
University**



E. Graduate Student Government
Lauren Sprague, President



Presentation to **BOARD OF TRUSTEES**

Lauren Sprague

GRADUATE STUDENT GOVERNMENT

October 11, 2024



GSG FALL RESEARCH EVENTS

Alumni Reunion Poster Session

3 Minute Thesis Competition Wednesday November 6th





GSG FALL PROFESSIONAL DEVELOPMENT & PR EVENTS



Monthly Presentation Practice

- Presentations
- Networking
- Elevator Pitches



New Graduate Student Orientation Picnic

Hancock Beach





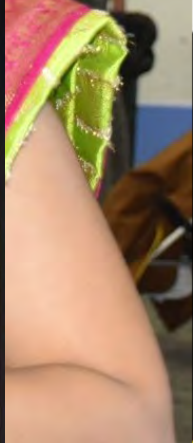
First Friday Social

Grad Commons





Parade of Nations





Updates

Grad Commons

May 1st, 2024 - August 31st, 2024

256 swipes*

101 unique students

~10% of graduate student population

TRAVEL AND CAREER ENRICHMENT GRANTS

68 Travel Grants

48 over summer

20 in Fall

Special Highlight

GSG website refurb

New GSG LinkedIn

Thank you GSG PR Committee!

An aerial photograph of a university campus situated along a large body of water, likely a lake or bay. The scene is captured during the "golden hour" of sunset, with a warm, orange glow over the water and the sky filled with soft, layered clouds. The campus features several large, multi-story brick buildings, interspersed with lush green trees. In the foreground, there are more trees with some autumn-colored foliage. The overall atmosphere is peaceful and scenic.

THANK YOU

F. University Senate
Robert Hutchinson, President

University Senate Update

Robert Hutchinson, Senate President

October 11, 2024



Michigan Tech

Current Items of Business

- Continue working to increase staff participation on the Senate
 - Additionally, rework the organization of Senate staff unit groupings
- Begin reviewing Senate committees to enhance overall productivity of the Senate
- Constitute a committee to propose Senate Bylaws/Constitution changes
- Work on amending the policy on class attendance
- Fill vacancies on university committees



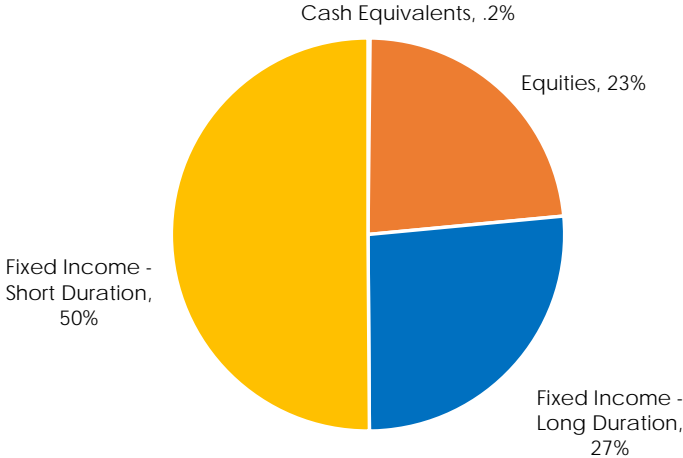
XI. Informational Items

A. Analysis of Investments

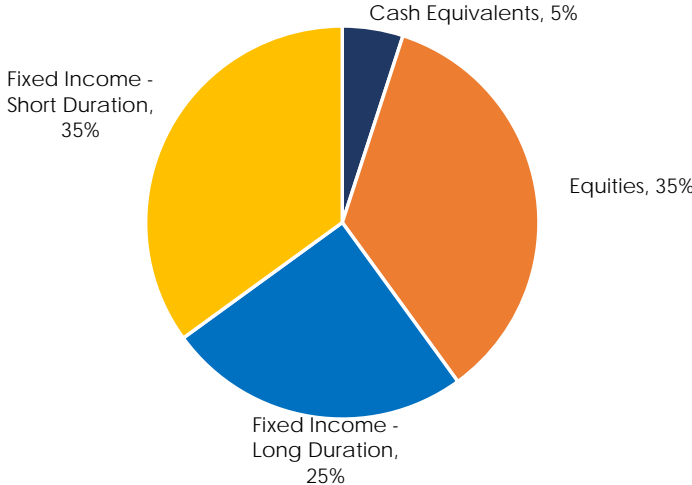
**MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2024 THROUGH AUGUST 31, 2024**

| | Market Value 6/30/2024 | Market Value 8/31/2024 | Fiscal-Year Investment Return | Benchmark Return | Benchmark |
|---------------------------------------|---------------------------|---------------------------|-------------------------------------|---------------------|--|
| Money Market Fund | \$ 3,786,266 | \$ 62,860 | 0.86% | 0.93% | 3-Month T-Bill |
| Equity Funds: | | | | | |
| Core Equity Fund | 8,374,550 | 5,511,489 | 3.29% | 3.67% | S&P 500 |
| Commonfund OCIO Equity Fund | 5,889,451 | 3,097,988 | 6.87% | 3.67% | S&P 500 |
| Total Equity Funds | 14,264,001 | 8,609,477 | | | |
| Fixed Income Funds: | | | | | |
| Intermediate Term Fund | 8,748,423 | 7,413,903 | 2.20% | 2.05% | ICE BofA Merrill Lynch 1-3 Yr Treasury |
| Commonfund Contingent Asset Portfolio | 10,872,035 | 11,078,101 | 1.90% | 2.05% | ICE BofA Merrill Lynch 1-3 Yr Treasury |
| High Quality Bond Fund | 5,775,075 | 4,447,597 | 3.75% | 3.81% | Bloomberg Barclays US Aggregate Bond Index |
| Multi-Strategy Bond Fund | 5,103,332 | 5,288,360 | 3.63% | 3.81% | Bloomberg Barclays US Aggregate Bond Index |
| Total Fixed Income Funds | 30,498,865 | 28,227,961 | | | |
| Total | \$ 48,549,132 | \$ 36,900,298 | 3.03% | | |

Current Asset Allocation



Target Asset Allocation



B. Sponsored Programs

Sponsored Activities Summary

Fiscal Year 2024, Fiscal Year Ended 6/30/2024

- Total awards are up 18.5% for FY24 compared to FY23.
- Gifts are up 14.2% for FY24 compared to FY23.
- Federal agency awards are up 18.5% for FY24 compared to FY23.
- Overall Industry activity decreased by 3.9% over the last fiscal year. However, it should be noted that a singular \$3 million industry related award was received in Q1 of FY23 which was not the case in FY24.
- Preliminary research expenditures are up 3.0% over FY23. Internal research expenditures are down 0.3% while the external expenditures are up 5.3%.

Formal Session of the Board of Trustees - Information Items

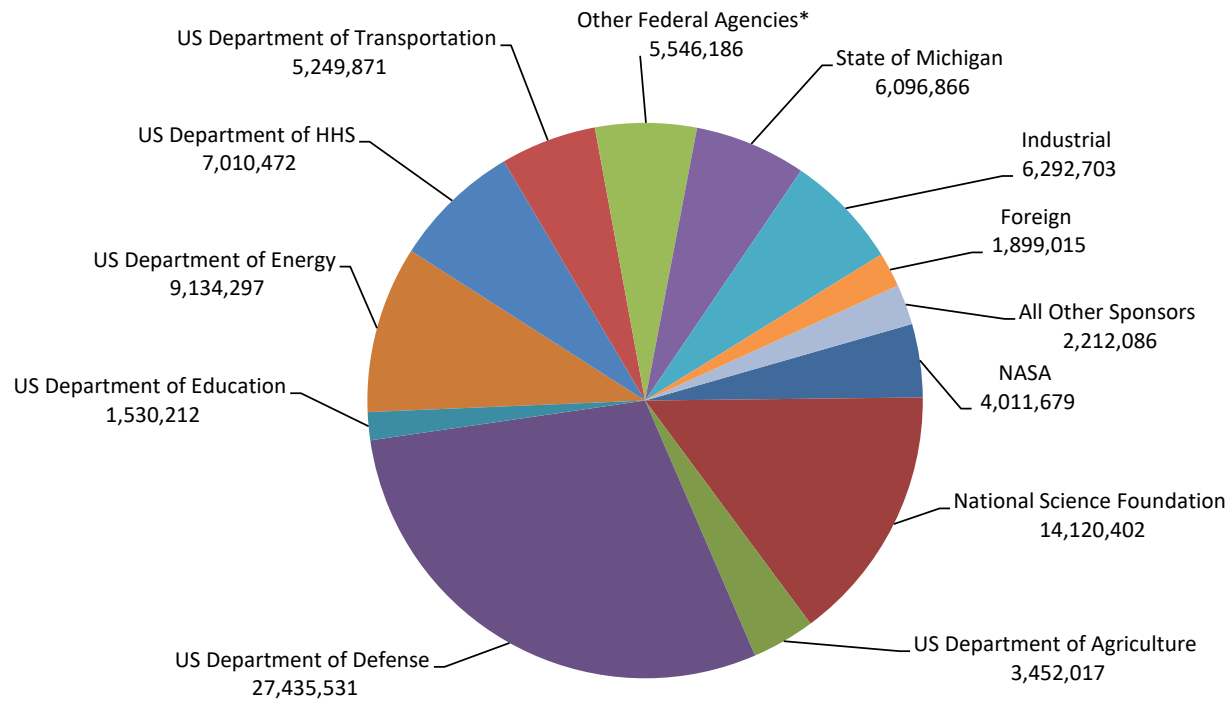
**Sponsored Awards
Fiscal Year 2024
4th Quarter
Ended Jun 30, 2024**

TOTAL: \$98,123,966

Pre-Proposals Submitted

(excluded from Proposals Submitted figures below)

**FYTD 2023: 64
FYTD 2024: 38**



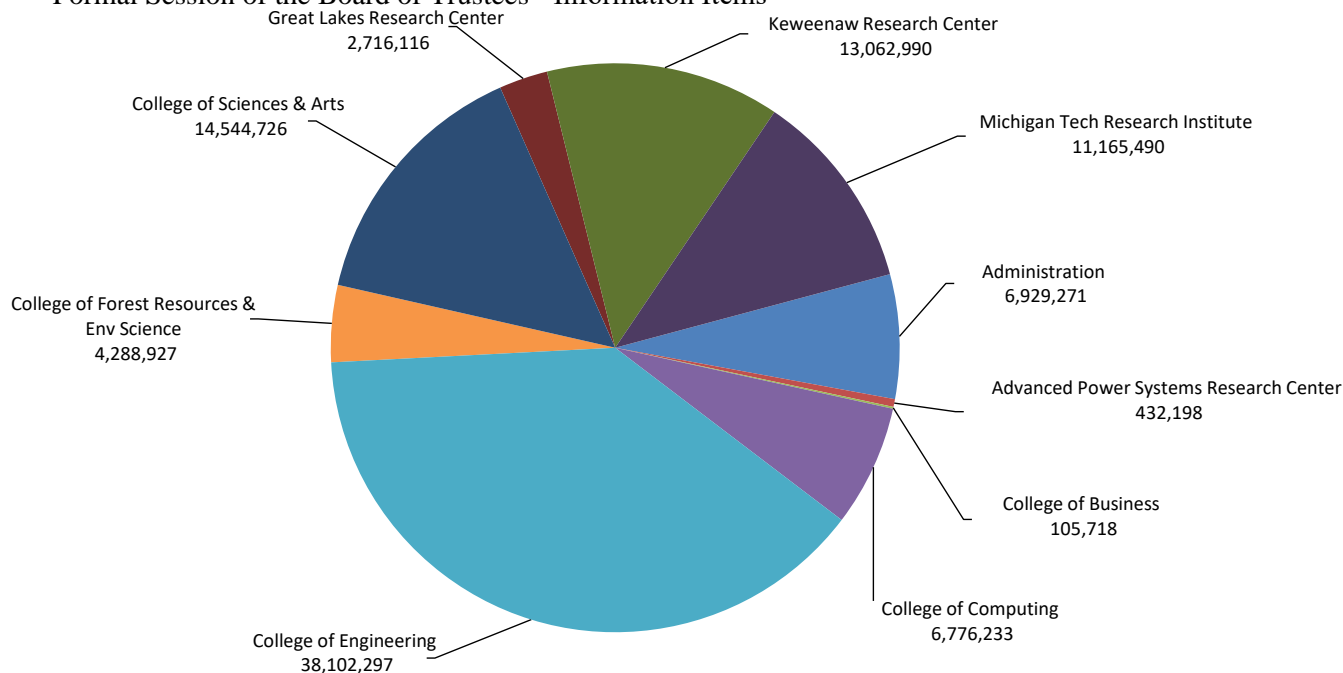
| Sponsor | Proposals Submitted | | Awards Received | | Awards Received (\$) | | Variance \$ | Variance % |
|---------------------------------|---------------------|-------------------|-------------------|-------------------|----------------------|-------------------|---------------------|--------------|
| | FY '24 as of 6/30 | FY '23 as of 6/30 | FY '24 as of 6/30 | FY '23 as of 6/30 | FY '24 as of 6/30 | FY '23 as of 6/30 | | |
| NASA | 87 | 68 | 36 | 44 | 4,011,679 | 5,221,171 | -1,209,492 | -23.2% |
| National Science Foundation | 138 | 128 | 38 | 51 | 14,120,402 | 12,173,956 | 1,946,446 | 16.0% |
| US Department of Agriculture | 53 | 57 | 54 | 38 | 3,452,017 | 3,342,221 | 109,796 | 3.3% |
| US Department of Defense | 104 | 109 | 110 | 100 | 27,435,531 | 20,949,258 | 6,486,273 | 31.0% |
| US Department of Education | 3 | 5 | 4 | 4 | 1,530,212 | 476,751 | 1,053,461 | 221.0% |
| US Department of Energy | 61 | 66 | 50 | 47 | 9,134,297 | 10,005,903 | -871,606 | -8.7% |
| US Department of HHS | 77 | 76 | 33 | 18 | 7,010,472 | 4,721,833 | 2,288,639 | 48.5% |
| US Department of Transportation | 23 | 24 | 19 | 13 | 5,249,871 | 3,282,688 | 1,967,183 | 59.9% |
| Other Federal Agencies* | 69 | 68 | 47 | 34 | 5,546,186 | 5,193,109 | 353,077 | 6.8% |
| Federal Agency Total | 615 | 601 | 391 | 349 | 77,490,667 | 65,366,890 | 12,123,777 | 18.5% |
| State of Michigan | 38 | 42 | 35 | 31 | 6,096,866 | 3,288,165 | 2,808,701 | 85.4% |
| Industrial | 148 | 131 | 126 | 115 | 6,292,703 | 4,913,982 | 1,378,721 | 28.1% |
| Foreign | 7 | 7 | 7 | 13 | 1,899,015 | 1,628,067 | 270,948 | 16.6% |
| All Other Sponsors | 80 | 99 | 41 | 49 | 2,212,086 | 3,957,723 | -1,745,637 | -44.1% |
| Subtotal | 888 | 880 | 600 | 557 | 93,991,337 | 79,154,827 | 14,836,510 | 18.7% |
| Gifts** | N/A | N/A | 284 | 253 | 4,123,607 | 3,611,978 | 511,629 | 14.2% |
| Crowdfunding | N/A | N/A | 5 | 15 | 9,022 | 20,221 | -11,199 | -55.4% |
| Grand Total | 888 | 880 | 889 | 825 | 98,123,966 | 82,787,026 | \$15,336,940 | 18.5% |

* National Archives and Records Administration, National Endowment for the Arts and Humanities, Office of the Director of National Intelligence, US Dept of Commerce, US Dept of Homeland Security, US Dept of State, US Small Business Administration, US Environmental Protection Agency, US Dept of the Interior, US Dept of Labor, US Small Business Administration, US Dept of Treasury, Washington Headquarters Services

**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.

Formal Session of the Board of Trustees - Information Items

Vice President for Research
Fiscal Year 2024
4th Quarter
Ended Jun 30, 2024
TOTAL: \$98,123,966



Percentages of Tenured & Tenure Track Faculty (as either PI or Co-PI)

Submitting Proposals since 07/01/2023
71.2%

On Active Projects as of 6/30/2024
64.4%

| SPO & OIC Metrics ¹ | Administration | Advanced Power Systems Research Center | College of Business | College of Computing | College of Engineering | College of Forest Resources & Env Science | College of Sciences & Arts | Great Lakes Research Center | Keweenaw Research Center | Michigan Tech Research Institute | Totals | Fiscal Comparison | Percent Change |
|--------------------------------------|---------------------|--|---------------------|----------------------|------------------------|---|----------------------------|-----------------------------|--------------------------|----------------------------------|-------------------|-------------------|----------------|
| | Proposals Submitted | 27 | 9 | 1 | 43 | 402 | 109 | 99 | 42 | 52 | 104 | 888 | 880 |
| Awards Received | 201 | 6 | 10 | 33 | 301 | 95 | 64 | 34 | 59 | 86 | 889 | 825 | 7.8% |
| Federal | 2,133,463 | 168,639 | - | 4,984,744 | 19,959,254 | 3,049,883 | 11,446,403 | 1,774,224 | 8,952,038 | 5,068,726 | 57,537,374 | 46,257,453 | 24.4% |
| Federal Pass-Through | 973,714 | - | - | 321,423 | 10,103,429 | 361,608 | 1,059,951 | 799,730 | 551,459 | 5,781,979 | 19,953,293 | 19,109,437 | 4.4% |
| Foreign | - | - | - | - | 385,130 | 10,060 | 1,499,560 | 4,265 | - | - | 1,899,015 | 1,628,067 | 16.6% |
| Gifts | 2,425,222 | - | 21,500 | 748,934 | 689,063 | 73,800 | 128,434 | 18,654 | 18,000 | - | 4,123,607 | 3,611,978 | 14.2% |
| Crowdfunding | - | - | - | - | 2,101 | - | 1,371 | 5,550 | - | - | 9,022 | 20,221 | -55.4% |
| Industry | 27,600 | 263,559 | - | 53,874 | 1,774,959 | 608,087 | - | 30,863 | 3,520,536 | 13,225 | 6,292,703 | 4,913,982 | 28.1% |
| Other | - | - | 84,218 | 222,258 | 1,104,614 | 110,489 | 409,007 | 31,086 | 20,957 | 229,457 | 2,212,086 | 3,957,723 | -44.1% |
| State of MI | 1,369,272 | - | - | 445,000 | 4,083,747 | 75,000 | - | 51,744 | - | 72,103 | 6,096,866 | 3,288,165 | 85.4% |
| Total \$ by Division | 6,929,271 | 432,198 | 105,718 | 6,776,233 | 38,102,297 | 4,288,927 | 14,544,726 | 2,716,116 | 13,062,990 | 11,165,490 | 98,123,966 | 82,787,026 | 18.5% |
| Fiscal Comparison | 3,841,513 | 778,882 | 83,000 | 6,809,426 | 34,347,985 | 5,029,738 | 10,208,590 | 649,750 | 7,911,514 | 13,126,628 | 82,787,026 | | |
| Percent Change | 80.4% | -44.5% | 27.4% | -0.5% | 10.9% | -14.7% | 42.5% | 318.0% | 65.1% | -14.9% | | | |
| Disclosures Received ² | 4.55% | 4.55% | - | - | 61.35% | 4.55% | 15.91% | - | - | 9.09% | 22 | 18 | 22.2% |
| Nondisclosure Agreements | 8 | 3 | 1 | 1 | 43 | 1 | 2 | 1 | 13 | 24 | 97 | 98 | -1.0% |
| Patents Filed or Issued ² | - | - | - | - | 71.43% | 7.14% | 21.43% | - | - | - | 14 | 12 | 16.7% |
| License Agreements | 1 | - | - | 1 | 5 | - | - | - | - | - | 7 | 9 | -22.2% |
| Gross Royalties ² | - | - | - | - | 80.00% | - | 20.00% | - | - | - | 80,050 | 68,409 | 17.0% |

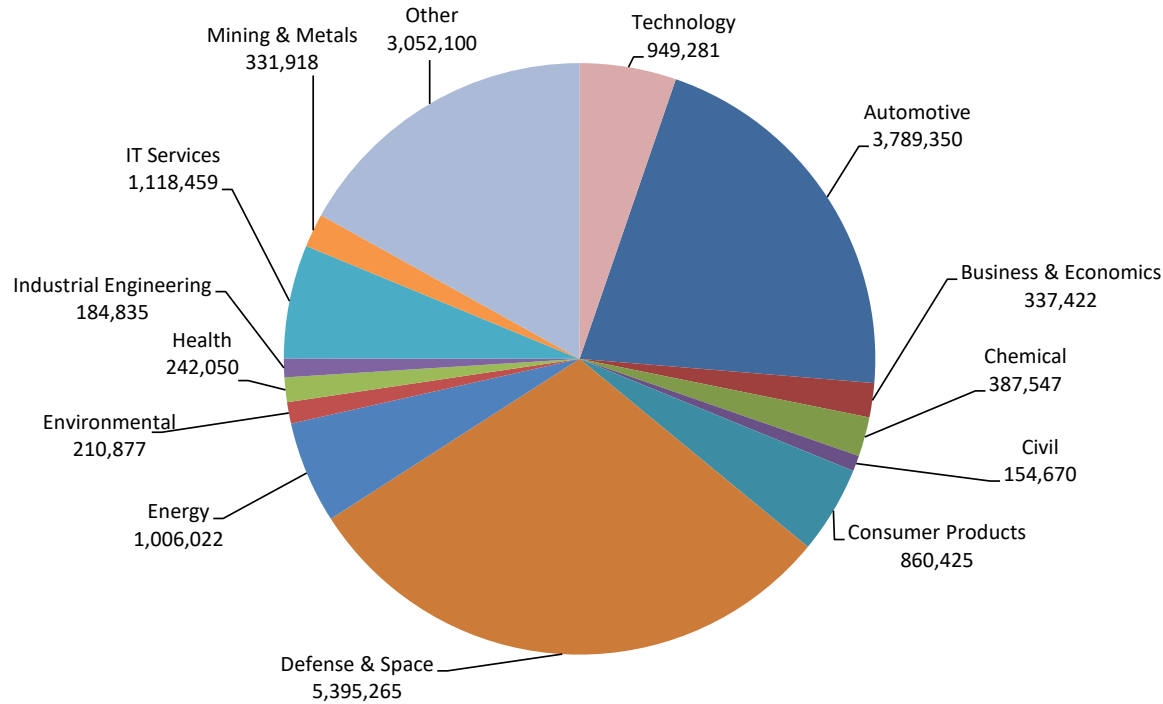
¹ Combined Metrics from both the Sponsored Programs Office (SPO) and Office of Innovation & Commercialization (OIC)

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).

Formal Session of the Board of Trustees - Information Items

**Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2024
4th Quarter
Ended June 30, 2024

TOTAL: \$18,020,221**



| Industry Segment | Proposals Submitted | | Awards Received | | Awards Received (\$) | | Variance \$ | Variance % |
|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|--------------|
| | FY '24 as of 6/30 | FY '23 as of 6/30 | FY '24 as of 6/30 | FY '23 as of 6/30 | FY '24 as of 6/30 | FY '23 as of 6/30 | | |
| Automotive | 41 | 45 | 62 | 77 | 3,789,350 | 3,534,872 | 254,478 | 7.2% |
| Business & Economics | 2 | 6 | 19 | 17 | 337,422 | 486,344 | -148,922 | -30.6% |
| Chemical | 5 | 1 | 8 | 5 | 387,547 | 99,184 | 288,363 | 290.7% |
| Civil | 18 | 5 | 28 | 34 | 154,670 | 629,538 | -474,868 | -75.4% |
| Consumer Products | 28 | 27 | 59 | 57 | 860,425 | 1,141,309 | -280,884 | -24.6% |
| Defense & Space | 41 | 33 | 48 | 53 | 5,395,265 | 8,399,194 | -3,003,929 | -35.8% |
| Energy | 12 | 7 | 35 | 29 | 1,006,022 | 1,621,182 | -615,160 | -37.9% |
| Environmental | 2 | 12 | 17 | 16 | 210,877 | 158,060 | 52,817 | 33.4% |
| Health | 11 | 6 | 17 | 15 | 242,050 | 434,089 | -192,039 | -44.2% |
| Industrial Engineering | 14 | 9 | 14 | 9 | 184,835 | 142,447 | 42,388 | 29.8% |
| IT Services | 14 | 13 | 24 | 10 | 1,118,459 | 89,243 | 1,029,216 | 1153.3% |
| Mining & Metals | 14 | 16 | 25 | 28 | 331,918 | 414,746 | -82,828 | -20.0% |
| Other | 21 | 14 | 77 | 35 | 3,052,100 | 515,363 | 2,536,737 | 492.2% |
| Technology | 14 | 14 | 15 | 11 | 949,281 | 1,085,244 | -135,963 | -12.5% |
| Total | 237 | 208 | 448 | 396 | 18,020,221 | 18,750,815 | -730,594 | -3.9% |

Michigan Technological University
Total PRELIMINARY Research Expenditures by College/School/Division
Fiscal Year 2024 & 2023
As of June 30, 2024 and June 30, 2023

| College/School/Division | Preliminary FY2024 | Final FY2023 | Variance | % |
|---|-------------------------------|-------------------------|------------------|-------------|
| Administration* | 2,711,882 | 5,952,229 | (3,240,347) | -54.4% |
| Advanced Power Systems Research Center (APSRC) | 1,899,775 | 1,721,481 | 178,294 | 10.4% |
| College of Business | 1,720,912 | 1,873,140 | (152,228) | -8.1% |
| College of Computing | 5,598,736 | 5,833,345 | (234,609) | -4.0% |
| College of Engineering | 42,942,467 | 38,457,708 | 4,484,759 | 11.7% |
| College of Forest Resources & Environmental Science | 7,840,608 | 7,883,525 | (42,917) | -0.5% |
| College of Science & Arts | 18,913,356 | 18,028,677 | 884,679 | 4.9% |
| Great Lakes Research Center (GLRC)** | 2,471,039 | 1,667,906 | 803,133 | 48.2% |
| Keweenaw Research Center (KRC) | 9,394,788 | 8,795,329 | 599,459 | 6.8% |
| Michigan Tech Research Institute (MTRI) | 13,425,327 | 13,605,971 | (180,644) | -1.3% |
| Total | 106,918,890 | 103,819,311 | 3,099,579 | 3.0% |

*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

Advancement and Alumni Engagement Narrative Michigan Tech Board of Trustees October 11, 2024

2024-2025 Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Advanced Training
- Naming Policy Updates
- Third party fundraising initiatives
- Public campaign phase discussions and preparation
- Gift processing and receipting
- Stewardship and annual/impact report
- Alumni Center

FY25 MTF Working Goals

- Develop an annual report documenting the impact the MTF (and the donors that support it) has on the university.
- Develop a plan setting the administrative fee beginning '26-'27 which honors donor intent and maximizes the overall benefit to the university.
- Catalog all significant contracts/agreements and recommend an appropriate review cycle and process for each.

Flagship Campaign

Flagship emphasizes world-class research and academic facilities, endowed chairs and professorships, student scholarships, and enhancing the student experience. The ultimate goal is to equip Michigan Tech to lead in the fourth industrial revolution, fulfilling its mission and addressing the world's most complex problems.

As of the end of year three (6/30/2024), the leadership phase of our seven-year campaign has successfully secured over \$199 million in gifts, bringing us closer to our \$350 million campaign goal. The public phase is slated to begin when we reach \$280 million; the campaign is scheduled to conclude in June 2029.

Accomplishments as of June 30, 2024

- \$199.6 million or 57% to the campaign goal of \$350 million
- \$79 million in outstanding and anticipated asks
- New cash to the endowment since campaign inception: \$19.8 million
- Planned gifts earmarked for the endowment \$26.4 million
- 75 illustrations, proposals and gift agreements were provided to donors
- \$16.7 million in planned gifts
- \$1.78 in realized planned gifts
- \$4.4 million in major outright gifts and pledges
- \$2.9 million in annual gifts under \$10,000
- \$3.4 million in corporate support
- \$6.2 million in foundation gifts
- In partnership with CCS Fundraising, conducting a Systems Assessment to help enhance our gift processing and stewardship program.
- Hosted donor campus visit for site tour and design consultant discussion.
- Successfully filled five vacant positions:

Formal Session of the Board of Trustees - Information Items

- o Business Systems Analyst Data Visualization Specialist
- o Principal Giving Associate
- o Two Directors for Charitable Giving
- o Senior Administrative Aide.
- o A student employee was also hired to assist with gift processing.
- Vacant position:
 - o Director for Charitable Giving
 - o Director for Annual Giving
- Campaign Executive Committee will meet on October 21, 2024

Principal Giving

- Finalized over \$11 million in outright and estate gifts and working on finalizing over \$6 million pending gifts
- The Principal Gift Execution committee focuses on securing gifts of \$1million and higher for the benefit of the Flagship Campaign
 - o Finalizing principal giving strategy for the campaign
 - o Working collaboratively with the Cornerstone Committee to reach the \$280 million goal
 - o Members have been actively hosting events, providing guidance, and outreach

FY 25 Campaign Donor Hosted Events

- Houghton, MI - complete
- Detroit, MI
- Houston, TX
- Northern Michigan

Future Advancement and Gift Planning Travel

Frontline fundraiser travel schedule through November 1 - December 31, 2024:

- California
- Pacific Northwest
- Illinois
- Lower Michigan
- Minnesota
- Wisconsin
- Texas
- Canada
- East Coast
- Continuing to travel with the Deans and Chairs

Advancement Services and Operations

- Process documentation ongoing
- Incorporating Gift Administration into Advancement Services and Operations
- Hired Business Systems Analyst/Data Visualization Specialist
- Hired Senior Administrative Aide for Gift Administration

Alumni Engagement & Annual Giving Updates

The Alumni Engagement & Annual Giving (AE&AG) team continues to execute its mission to cultivate significant, mutually beneficial, lifelong relationships with alumni through three key pillars: events, communications, and volunteerism.

Events

- Nearly 50 alumni events across 7 different states that have been hosted or are being planned for the future with more than 15 alumni hosts.
- More than 400 students stopped by the First Day of School event the AE&AG team hosted on Monday, August 26 in partnership with the Student Leadership & Involvement Office.
- Free professional headshots will be offered during the September 24 fall Career Fair.
- Multiple local alumni events were hosted in October, including: [Ford Center Ribbon Cutting](#) ceremony and the [10th Anniversary of the Husky Statue](#) (part of Alumni Way)
- The fourth Traveling Tech Talks event in Boston, MA on October 10, 2024: "[A Journey from Bits to Qubits](#)" Featuring Paul Juodawlkis '86: Group Leader, Quantum Information and Integrated Nanosystems Group, MIT Lincoln Laboratory. The discussion was moderated by Dan Fuhrmann, Department of Applied Computing Chair at Michigan Tech.
- Many different community-service oriented events were hosted by alumni all across the country, in the spirit of "Make A Difference Day". The AE&AG team organizes this service-alumni-event-blitz each year to add to the variety of alumni programming offered.
- A pregame social will be held ahead of our first game in the GLI Tournament in Grand Rapids in December.
- In accordance with one of the goals outlined on our department's strategic DEIS plan, the Alumni Engagement team is organizing a Veterans Weekend in the spring of 2025 to engage MTU alumni vets. This effort is being executed in partnership with both Army ROTC and Air Force ROTC campus units. More to come soon.
- [Reunion 2025](#): save the date for July 31-August 2, 2025.

Communications

- Nearly 6,000 alumni received a text message from the AE&AG team in late August, encouraging them to celebrate 906 Day by wearing black and gold, or plaid, in honor of the well-known Yooper holiday.
 - We saw above average participation rates, low opt out rates, and positive responses from this mass marketing message.
 - We continually work to improve our alumni webpages for a more informative and interesting experience for our alumni.
 - On our [events page](#), we added a visual representation of past events hosted in the previous 12 months to display the volume of alumni events and activity we have regionally (in addition to promoting upcoming events)
 - We are working on creating an Alumni News page to share more alumni profiles, University news, and more.
 - We continue to focus on a more effective social media strategy throughout the year and have increased our social media followings on all channels: Facebook, Instagram, and the private LinkedIn alumni group

Volunteerism highlights

- Five alumni participating in the fall 2024 Time & Talent cohort October 7-10:
 - Craig '94 and Stacey '95 Krastins, Jennifer Schoenherr '94, Denny Socha '86, Mike VeCasey '85

Formal Session of the Board of Trustees - Information Items

- [Alumni Awards 2025](#): Nominations for the 2025 Alumni Awards are open now through Sunday, December 15. If you know any extraordinary alumni who meet the award criteria that deserve to be recognized, nominate them today!

Annual Giving

- The AE&AG team has designed their planned annual giving mass appeals to be executed in two different ways throughout the fiscal year. These campaigns utilize our omni-channel approach of direct mail, email, text message, digital ad, and crowdfunding.
 - Four large campaigns will be completed in partnership with our vendor partner (RNL). The first of which, the fall solicitation, dropped late September/early October.
 - Concurrently, completely in-house annual giving campaigns (to targeted audiences for specific projects or priorities) are completed as well. The first of which was centered around athletics and the arts affinity and dropped in late August/early September.
- In addition to the planned calendar outlined above, the AE&AG team meet frequently with various departments on campus for various fundraising needs or priorities that come up throughout the year.
 - Depending on other solicitations in the works or time of year, either a crowdfunding campaign or targeted appeal is supported.
- FY25 Give Back to the Pack: Michigan Tech's 24-hour giving challenge
 - Save the Day for April 8-9, 2025.

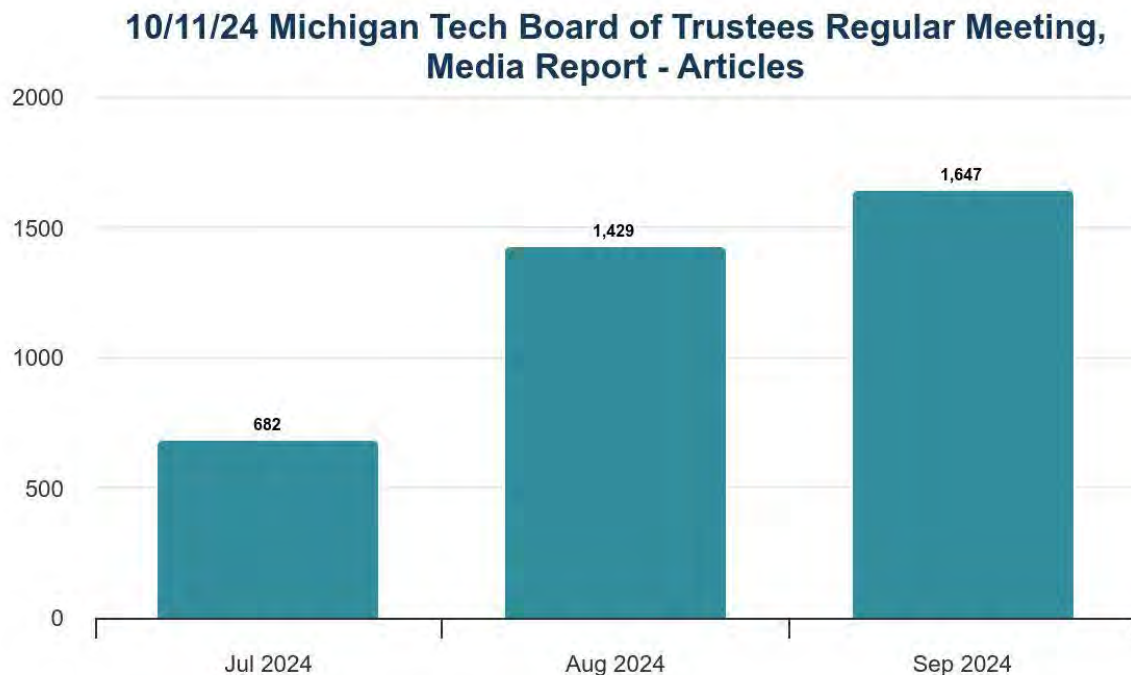
D. Media Coverage

Media Report: July 16 to Sept. 22, 2024
 Michigan Technological University
 Regular Meeting of the Board of Trustees
 Oct. 11, 2024

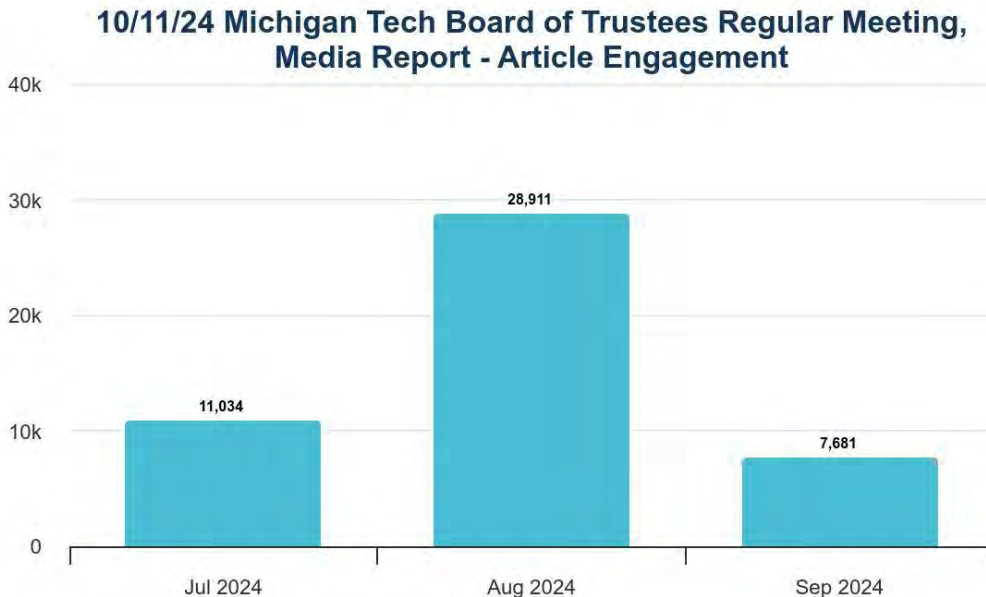
Overview

| | |
|---|----------|
| Articles | 3,758 |
| Total engagement | ~ 47.6K |
| Average engagement | 12 |
| Journalist shares | 255 |
| Journalist reach | ~ 6.16M |
| Average unique visitors per month (UVM) | ~ 6.45 M |
| Total UVM | ~ 24.23B |

Between July 16, 2024 and Sept. 22, 2024, a total of 3,758 online articles mentioned Michigan Technological University:

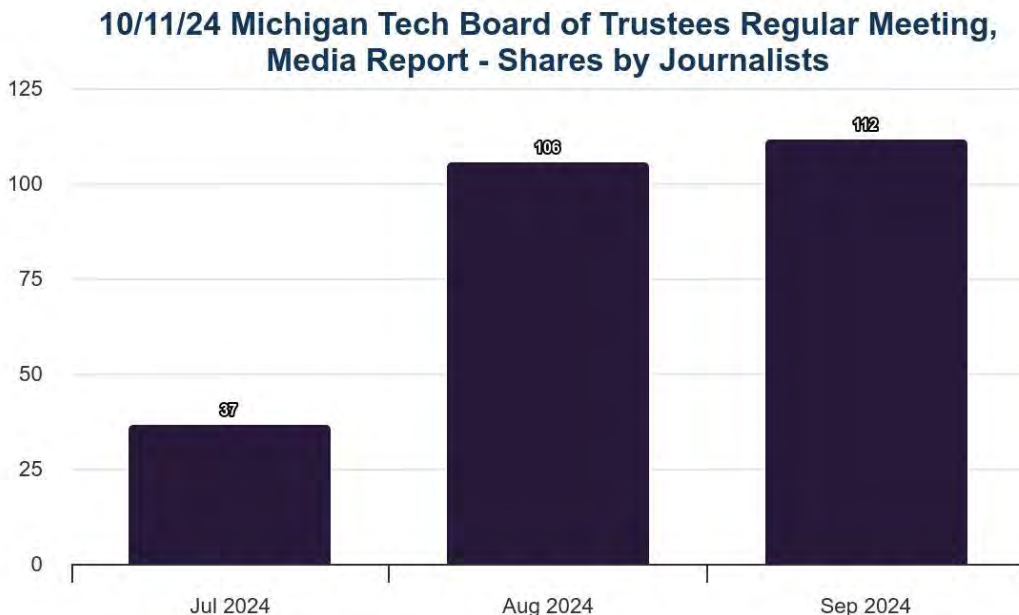


Those 3,758 articles were shared, commented on, or liked on social media roughly 47,600 times, for an average engagement of 12 shares, comments, or likes per article:



MUCK RACK

Journalists shared the articles 255 times, resulting in a reach of roughly 6.16 million people:



MUCK RACK

News Highlights:

Research News

The [Associated Press](#) quoted Travis White (GLRC) in a story about the ongoing high-tech search in Lake Superior for a plane that crashed in 1968. From Sept. 9-13, a Michigan Tech team based at the Great Lakes Research Center used an autonomous surface vessel equipped with high-resolution sonar to scan the lake bottom for wreckage. The story was picked up by [Yahoo! News](#), [The Mining Journal](#), [Wisconsin State Journal](#), [The Alpena News](#), [WOOD TV8](#), and more than 300 other outlets worldwide. An earlier [Associated Press](#) story was picked up by more than 200 U.S. news outlets.

Stephen Techtmann (BioSci) was quoted and David Shonnard (ChE) was mentioned by [The Atlantic](#), [MIT Technology Review](#) and [Ars Technica](#), which picked up an [Undark](#) story about a system developed at Michigan Tech that uses bacteria to break waste plastics down to be recycled into useful products. Through the process, the bacteria themselves become an edible protein powder similar to vegemite, as described in MTU's 2022 [Research Magazine](#).

Roman Sidortsov (SS) was quoted by [Michigan Advance](#), [Great Lakes Now](#), [Yahoo! News](#) and 15 other regional news outlets in a story discussing past and future energy transitions in the Upper Peninsula. Sidortsov suggested that distributed generation might be better suited to the geography of the Upper Peninsula than large, centralized power plants. The story was picked up from [Interlochen Public Radio News](#).

Rupali Datta (BioSci) was mentioned by [MIT Technology Review](#) in a story about investigations into phytomining as a means of harvesting critical minerals from the soil. Datta leads one of seven phytomining projects awarded a total \$9.9 million from the U.S. Department of Energy's Advanced Research Projects Agency for Energy.

Don Lafreniere, Sarah Fayen Scarlett and Mark Rhodes (all SS) and Dan Trepal (GLRC/SS) were named by the [National Endowment for the Humanities](#) as co-recipients of a grant through the Institutes for Advanced Topics in the Digital Humanities program. The grant will fund a two-week residential institute at MTU and a series of virtual sessions on geospatial technologies and digital deep mapping.

[WZMQ 19 News](#) mentioned Michigan Tech in a story about a national award won by the Michigan Department of Transportation for its MTU-adjacent US-41 reconstruction project. The project won the American Association of State Highway and Transportation Officials' Quality of Life/Community Development Award in the Small Project category.

John Vucetich (CFRES) was mentioned by [CBS News](#) in a story about a wildlife conflict mediator working to resolve disputes involving the management of gray wolves in the U.S. The story named Vucetich as a co-author of a letter urging U.S. officials to reinstate protections for the wolves after their removal from the federal endangered species list in 2020.

Simon Carn (GMES) was quoted by the U.K.'s [Daily Mail](#) and [Yahoo! News U.K.](#) in stories about a cloud of sulfur dioxide gas passing over the country. The cloud came from a volcanic eruption that began Aug. 22 near Grindavik on Iceland's Reykjanes Peninsula.

Professor Emeritus Ted Bornhorst (GMES) was quoted by [The Lansing State Journal](#) in a story about the history of geological surveying in Michigan, including the discovery of copper in the Keweenaw Peninsula.

[The Midland Daily News](#) and [Spartan Newsroom](#) picked up a [Bridge Michigan](#) story about the impact recycling old electronics devices could have on critical mineral shortage, expected to be a "looming choke point" on the nation's energy transition and Michigan's electric vehicle industry. Lei Pan (ChE) was quoted in the story.

Sarah Hoy (CFRES) was quoted by [Bridge Michigan](#) in a story about insights about human aging gleaned from a study of moose bones co-authored by Hoy earlier this year. The study, which linked periodontitis to severe forms of osteoarthritis and osteoporosis in moose, was the subject of a post on MTU's [Unscripted Research Blog](#) in January.

Andrew Fiss (HU) hosted an episode of the Consortium for History of Science, Technology and Medicine's [History of Science Society at 100](#) podcast. The episode, titled "History of Science in Song," discussed open research questions and future directions with Antony Adler of Carleton College, Asif Siddiqi of Fordham University, and Vassiliki Betty Smocovitis of the University of Florida. Fiss also talked about math songs that appeared in his recent book, "[Performing Math.](#)"

General News

University President Rick Koubek was quoted by [WLUC TV6](#) and John Lehman (URE) was quoted by the [Iron Mountain Daily News](#) in stories about Michigan Tech's fall 2024 enrollment, which rose by 1.5%, reaching its highest level since 1982. The enrollment update was also covered by the [Keweenaw Report](#). The numbers were shared Monday, Sept. 9, by [Michigan Tech News](#).

Michigan Tech's [Unit Operations Lab](#) was mentioned by the [Chicago Tribune](#) in a story about the increasing number of women in the manufacturing industry. Hailey Ullett '24 (B.S. Chemical Engineering) shared how her experience in the UO Lab shaped her career path. The story was picked up from [The Detroit News](#).

Cody Kangas (CServ) was quoted by [WLUC TV6](#) in a story about Michigan Tech's Michigan Day CareerFEST, where students connected with 20 businesses, including 13 U.P. employers. Kangas emphasized that the event kicks off a broader career fest season, with more than 400 employers expected to attend in the coming weeks, leading up to the fall career fair on Sept. 24.

The [Boston Globe](#) mentioned Michigan Tech in a story about [The Wall Street Journal's guide](#) to "The Top U.S. Colleges That Make New Graduates Rich," where Tech was ranked No. 15. The

rankings focus on affordability and graduates' early career earnings, measuring how well schools boost income beyond expected salaries.

[The Wall Street Journal](#) mentioned Michigan Tech in a story highlighting the top schools on its 2025 Best Salaries list, which ranked schools "in order of their impact on graduates' salaries and how this relates to the cost of attending the college." At No. 15 on the list, MTU was one of only 14 public universities to crack the top 50.

[ABC News](#), [AOL](#), and [Yahoo! News](#) referenced Michigan Tech's [What are the Northern Lights \(Aurora Borealis\)?](#) webpage in stories discussing the difficulty of predicting aurora activity and the use of satellite data to forecast northern lights occurrences.

[WZMQ 19 News](#), The [Keweenaw Report](#), and [USCHO.com](#) covered the announcement of Raymond Brice '20 (B.S. Civil Engineering) being named an assistant coach for Michigan Tech hockey. Brice, a former Huskies captain, returns to Tech as the Huskies prepare for the 2024-25 season.

Michigan Tech's [Mobile Lab](#) was mentioned by [WLUC TV6](#) and [Ratchet+Wrench](#) in stories about electric vehicle (EV) training provided to the city of Marquette's facilities and maintenance team. The training is part of the MiNextCities Project, aimed at helping the city transition to a potential all-electric fleet.

[Fast Company](#) mentioned Michigan Tech in a guide to using Handshake to land a job or internship. The article noted that Handshake, a career management and recruitment app, was founded by former Huskies (Garrett Lord, Ben Christensen, and Scott Ringwelski).

David Flaspohler (CFRES), LaReesa Wolfenbarger (CSA) and Michelle Scherer (COE) were mentioned by [The Mining Journal](#) in a short story about Michigan Tech's new deans.

Nicole Foguth (RL) was quoted by [WLUC TV6](#) in a story about Michigan Tech's fall 2024 Move-In Weekend, which welcomed more than 1,300 first-year Huskies to campus.

[MLive](#) mentioned Michigan Tech in a story about new rules announced by the National Park Service for Isle Royale National Park to reduce wolves' access to human food. The article highlighted the importance of using bear-proof canisters and hanging bags to keep food away from wolves. The story referenced MTU's annual [Isle Royale Winter Study](#), the longest-running predator-prey study in the world.

[Great Lakes Now](#) picked up the July 19 episode of the [Points North](#) podcast featuring Kiko de Melo e Silva (CEGE). The episode, titled "Pedaling to the Beat of His Own Drum," discusses de Melo e Silva's status as a local legend among Upper Peninsula mountain bike race competitors. Most compete with expensive gear and bikes, but de Melo e Silva rides a \$150 BMX bike named Glamour Girl.

E. Employee Safety Statistics

| | | Category | Years | Employee Classification | | | | | | | Total |
|---|--|----------|---------|-------------------------|---------|------------|---------|--------------|---------|-----------|-----------|
| | | | | AFSCME | Faculty | Non-Exempt | POA | Professional | Student | Temporary | |
| Number of Recordable Injuries | Injury Only w/Medical - No Lost Time | 2023 | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 8 |
| | | 2024 | 2 | 1 | 0 | 0 | 5 | 2 | 1 | 2 | 13 |
| | Lost Time Cases | 2023 | 5 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 10 |
| | | 2024 | 5 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 8 |
| | Restricted Work Cases | 2023 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 2024 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 7 |
| Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above) | 2023 | 7 | 0 | 1 | 0 | 1 | 3 | 7 | 0 | 19 | |
| | 2024 | 9 | 1 | 0 | 0 | 7 | 5 | 3 | 3 | 28 | |
| Number of Days | Injury Lost Time ³ | 2023 | 203 | 0 | 0 | 0 | 11 | 2 | 98 | 0 | 314 |
| | | 2024 | 242 | 0 | 0 | 0 | 0 | 49 | 6 | 0 | 297 |
| | Restricted Work Days ³ | 2023 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 17 |
| | | 2024 | 93 | 0 | 0 | 0 | 7 | 0 | 16 | 38 | 154 |
| Hours Worked | Total Work Hours | 2023 | 173,521 | 491,900 | 60,655 | 11,866 | 827,251 | 716,829 | 52,794 | 109,774 | 2,444,590 |
| | | 2024 | 176,941 | 504,411 | 63,372 | 12,082 | 847,284 | 653,938 | 51,030 | 112,078 | 2,421,136 |
| | Percentage of Work Hours | 2023 | 7.1% | 20.1% | 2.5% | 0.5% | 33.8% | 29.3% | 2.2% | 4.5% | 100.0% |
| | | 2024 | 7.3% | 20.8% | 2.6% | 0.5% | 35.0% | 27.0% | 2.1% | 4.6% | 100.0% |
| Rates | Lost Time Case Rate ¹ | 2023 | 5.8 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 11.4 | 0.0 | 0.8 |
| | | 2024 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 3.9 | 0.0 | 0.7 |
| | Frequency Rate ² (Recordable) | 2023 | 8.1 | 0.0 | 3.3 | 0.0 | 0.2 | 0.8 | 26.5 | 0.0 | 1.6 |
| | | 2024 | 10.2 | 0.4 | 0.0 | 0.0 | 1.7 | 1.5 | 11.8 | 5.4 | 2.3 |

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 Unive

3 The number of days are total days for the life of the cases first reported during this period.

The Bureau of Labor Statics 2022 Injury, Illness, and Fatalities, Table 1 reports for Colleges and Universities; the average LOST TIME CASE RATE of days away from work was 0.6 and the average FREQUENCY RATE was 1.4.

F. Disposal of Surplus Property

**Michigan Technological University
Surplus Property Sales
July 1, 2024 - August 31, 2024**

| Date | Description | Amount |
|--------------|--|---------------------|
| 08/06/24 | Surplus property from Sleep Lab including: (2) SleepWorks Systems, Sleep Capnographs, and Breathalyzers Digital Monitoring System, SenTec UFI Bioamplifier Sleep Lab Furniture | \$ 25,000.00 |
| Total | | \$ 25,000.00 |

G. Contracts 500K

XI-G. CONTRACTS OVER \$500,000

Board Policy 11.13 requires that all contracts with a value of \$500,000 or greater but less than \$1,000,000 be presented to the Board of Trustees as a subsequent information agenda item.

- Wads Freight Elevator Replacement: replace the existing freight elevator connecting the loading dock to the dining and storage areas.
 - Anticipated contract dates: 11/01/2024
 - Contract type: The contract will be publicly bid on October 1.
 - Anticipated contract amount: \$600,000 (originally approved at \$450K for FY25 capital projects by the BOT Audit and Finance Committee in February)
 - Funding source: Deferred Maintenance