MINUTES OF THE FORMAL SESSION OF THE BOARD OF TRUSTEES OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call in Ballroom B of the Memorial Union Building on the campus of Michigan Technological University in the City of Houghton, Michigan at nine o'clock on the morning of October 11, 2024.

The Board of Trustees of Michigan Technological University met in formal session at the University's campus at Michigan Technological University in the City of Houghton, State of Michigan, at 9:00 a.m., on the 11th day of October, in Ballroom B of the Memorial Union Building. The place, hour, and date are duly established and duly published for the holding of such a meeting.

I.   CALL TO ORDER

The meeting was called to order by Chair, S. M. Tomaszewski, and a quorum was declared present.

II.   ROLL CALL

The following members of the Board of Trustees were present:

J.U. Bacon
A.R. Dickson
M.D. Johnson
J. C. Littmann
D. D. Sanders
S. M. Tomaszewski, Chair
M.Q. Wells
R. J. Koubek, ex officio

Not present was J. E. Jipping, Vice Chair.
The following officers were present:

S.H. Schulte, Secretary
N.W. Stevens, Treasurer

Also present during part or all the session were: Andrew Barnard, Laura Bulleit, Wayne Gersie, John Lehman, William Kordenbrock, William Roberts, Suzanne Sanregret, Andrew Storer and various members of the faculty, administrative staff, student body, press, and public.
Where item numbers are used, they refer to corresponding item numbers in the agenda, in the hands of the Board members.

III.   CONFIRMATION OF AGENDA

It was moved by D. Sanders supported by J. Littmann, and passed by voice vote without dissent, that the agenda of the formal session of October 11, 2024, as distributed to the Board of Trustees, be approved.

IV.   OPENING REMARKS

A. Chair's Comments

Good morning and welcome the best Board meeting you will ever attend. What a beautiful morning it is, the air is crisp, the leaves are nearly at peak color, and Michigan Tech is busy accomplishing incredible things. This is why the Board enjoys convening on campus, to engage with both leadership and the student body. During my 501.7-mile journey, in the quiet cabin of a GMC Hummer EV, equipped with enhanced level two autonomous features, I took the opportunity to reflect on Michigan Tech's accomplishments, and their positive influence on my life. Innovation is the systematic practice of developing, marketing groundbreaking products and the services for consumer adoption. Here are just a few examples of MTU's innovations that came to mind during my drive.

- Black bear parathyroid hormone.
- Orban Space Technology, a Houghton based space start up founded by Dr. Brad King, a faculty member in Mechanical and Aerospace Engineering, commercializing satellite thruster technology developed in his lab.
- The Keweenaw Research Center, where research and development focused on identifying safe routes through mine fields, which was licensed to Global Tech.
- Keweenaw Ecological Innovations Group, a start up founded by Dr. Jared Wolfe, from the College of Forest Resources and Environmental Science, as well as Dr. Shane Oberly, from Electrical and Computer Engineering, aimed at reducing bird population declines due to collisions.

The final two:

- augmented road line detection, and
- display systems and high-resolution Doppler collision avoidance radar really popped into my mind.

These last two innovations were particularly critical to my safe journey to Michigan Tech this week. The augmented road line detection enhances level two autonomous driving, with the high-resolution Doppler collision avoidance radar that supports collision avoidance, was also important. I mention my vehicle not to boast about the vehicle, because it's a privilege to test the vehicle and that kind of technology, but to emphasize the vital connection between Michigan Tech and industry. MTU alumni at GM engineered the featured that enhance my experiences. These innovations are game changers across the industry, borne from the passion of the Husky, and impacting the work in profound ways, they often begin as a researcher's dream or hypothesis that becomes a reality, right here in these buildings behind us. It fills me with proud to know that these innovations will improve lives, with Michigan Tech at the center of it all.

Yesterday, we were privileged to take a hard hat tour of East Hall, and it is a sight to behold. Not only is it running on budget and on schedule, but it also demonstrates intentional, thoughtful design for the students who call it home. The stunning views, the relaxing saunas, and the convenience store (or c-store, we've learned) will offer healthy options for students looking to grab a quick bite on their way to class or their way home. We are already looking forward to the move in next fall. This significant investment in our future will provide a living space for the great minds who will innovate, engineer, and lead the change in this world.

We all know that one of the things that attracts our students to Michigan Tech are our exceptional faculty. To that end, I would like to briefly recognize this year's Distinguished Teaching Award winners - Dr. Charles Wallace, a Professor of Computer Science in the College of Computing and was also named MASU's Distinguished Professor of the Year, and Dr. JW Hammond, an Assistant Professor of Rhetoric and Composition in the College of Science and Arts. We thank them for their contributions to Michigan Tech.

In addition,

- Michigan Tech ranked 15th in the nation overall for Best Salaries in the Wall Street Journal's College Pulse Rankings - and was 3rd in the nation among public institutions.
- Michigan Tech, as we'll hear later in this meeting, has its highest overall enrollment since 1982.
- This year's incoming class also had the highest average high school GPA in Tech's history at 3.84.
- Forbes ranked Michigan Tech in the 91st percentile on its best places to work in Michigan list. Michigan Tech was also the only employer in the U.P. to make the Forbes list.

All of these made the drive so much more pleasant. With those accomplishments in mind, I now invite President Koubek to make his opening remarks.

B. President's Comments

Good morning and welcome. It's a delight to be here with you all on this beautiful fall morning. Chairman Tomaszewski, thank you for your opening comments and thank you all for joining us.

This morning, we are joined by several guests, including Congressman General Jack Bergman, Michigan Senator Ed McBroom, and Michigan Representative Greg Markkanen who are present for a very special award presentation.

It is well known that Michigan Tech has a heavy research focus, but the focus of some of that research is not well known - and there is a reason. Today, we get to highlight our partnership with the Defense Counterintelligence and Security Agency (DCSA), a branch of the Department of Defense. I would like to extend our gratitude to the individuals from DCSA who made the trip to our campus and thank you for coming.

I would now like to invite Mr. Andrew Lochli for the presentation of the Jack Donnelly Excellence in Counterintelligence Award.

V. JACK DONNELLY EXCELLENCE IN COUNTERINTELLIGENCE AWARD

Andrew Lochli, Assistant Director of Counterintelligence and Insider Threat presented the Jack Donnelly Excellence in Counterintelligence Award to Board Chair Steve Tomaszewski.

Comments from Board Chair Tomaszewski:

Thank you, Assistant Director Lochli. We are honored and humbled to receive this prestigious award. Michigan Tech is immensely proud to be one of only five recipients of the Jack Donnelly Award - out of over 12,000 eligible organizations across the country. This award recognizes the efforts of our research security professionals and their counterintelligence work. The award also provides our government partners assurance that at Michigan Tech we will continue to work diligently to protect our researchers and their data. So, on behalf of the University, I'd like to congratulate the entire team on earning this award. I would also like to again thank Mr. Lochli and the DCSA for recognizing their excellent work.

Now, I am honored to invite U.S. Representative, Lieutenant General Jack Bergman up to the podium to say a few words.

U.S. Representative, Lieutenant General Jack Bergman spoke to show his support for Michigan Tech receiving the DCSA Jack Donnelly award.

State Representative Greg Markkanen spoke to show to show his support for Michigan Tech receiving the DCSA Jack Donnelly award.

Comments from President Koubek:

Thank you, Representative Markkanen. And thank you to Mr. Lochli and the DCSA team for this tremendous recognition. The Jack Donnelly Award exemplifies the great effort the University makes to ensure research security. It reiterates that this work matters, and also proves that we're doing it well. We have long understood the importance of our counterintelligence efforts in helping to maintain our country's advantage in science and technology. Our research security efforts protect Michigan Tech personnel, they protect our intellectual property, and they help protect our country. Michigan Tech has collaborated for decades with state and federal partners, forging and strengthening solid partnerships along the way. Through those partnerships, and through our counterintelligence efforts, Michigan Tech has built a reputation of being committed to excellence in research security and counterintelligence. We appreciate the DCSA for recognizing this commitment to excellence today with the Donnelly Award. We look forward to continued collaboration with our government partners. And we will continue to do our part to protect our national security. I would like to take a moment to recognize some of the individuals

behind this award. Please stand as I call your name and remain standing until all the names are called.

- Ramona Englund, our FSO, ITPSO, and Senior Research Security Specialist
- Lindsay Fortin, AFSO, Research Security Specialist II
- Scott Bradley, Director of the Keweenaw Research Center
- Geoff Gwaltney, Associate Director of the Keweenaw Research Center

Let's give them a well-deserved round of applause. I would be remiss if I did not mention Dave Reed, our recently retired Vice President of Research, who saw the importance and value in being a leader among universities in this arena. We continue to benefit from the framework he established, and we look forward to the work of our new Vice President for Research, Andrew Barnard, in carrying that vision forward.

VI.   PUBLIC COMMENT PERIOD

Lauren Gray, Keweenaw Youth for Climate Action, spoke about their devesting campaign.

Gabe Ahrendt, Keweenaw Youth for Climate Action, spoke about their devesting campaign.

Lexi Tater, Keweenaw Youth for Climate Action, spoke about their devesting campaign.

Lionel Gaba, Keweenaw Youth for Climate Action, spoke about their devesting campaign.

VII.   COMMITTEE REPORTS

VI-A. Academic Affairs Committee

The Committee met once since the last Board meeting. Everything progressing nicely and all the Dean positions have been filled, this summer.

The Committee met with GSG, USG, and Senate representatives. Issues that arose include raising healthcare costs and raising parking costs.

The Committee's work is progressing nicely, with shared governance working as it should. The Committee Chair expressed his thanks to the Senate and Robert Hutchinson for moving the Senate meetings to during work hours, which has been appreciated by many Senators.

VI-B. Audit and Finance Committee

The Committee has met once formally since the last Board meeting. There were several informal ZOOM meetings to plan the agenda, and to plan for an in-depth briefing to the Board on our research and auxiliary operations.

The Committee reviewed the FY24 audit report, the FY25 updates, and began reviewing the FY26 preliminary budget parameters. Next, the Committee reviewed the five-year State capital outlay plan and all major capital projects that are underway at this time, and there are a lot.

The Committee would like to extend its appreciation to Theresa Coleman-Kaiser and Andrew Barnard and their teams for the excellent efforts to educate the Committee and the Board on the results of their respective operations.

VI-C. Leadership Committee

The Committee met once since the last Board meeting. The Committee met with the leadership team to discuss the progress of goals and initiatives. Everything is on track while focusing on the future with the question, *where is Michigan Tech going to be ten to twenty years from now?* The foundations are well established under the President Koubek's leadership and executive team. Additional initiatives will be focused on in February of 2025, during the retreat.

VIII. CONSENT AGENDA

It was moved by D. Sanders, supported by J. Littmann, and passed by voice vote without dissent, that the Board of Trustees approve and adopt the items contained in the 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 Minhkhoi 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 Jablinskey
- 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 Mattey

- 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

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

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September 21, 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

Source	YTD Total	Adjustment	FY Goal	% of Goal
Major Gifts (Over 10K)	4,397,180.46		7.96	55%
Planned Gift Commitments	16,699,553.90		13.35	125%
Annual Giving (10K or less)	2,880,492.29		2.37	122%
Subtotal: Ind Giving	23,977,226.65		23.68	101%
Corporate Giving	3,388,354.10		2.50	136%
Foundation & Other Org Giving	6,198,151.28		3.00	207%
Corporate Sponsored Research	14,942,356.00		13.67	109%
FUNDRAISING TOTAL	48,506,088.03		42.85	113%

FY 2023

Source	YTD Total	Adjustment	Goal	FY % of Goal	FY Total
Major Gifts (Over 10K)	6,147,795		6.92	89%	6,147,794.51
Planned Gift Commitments	15,149,500.00		12.04	126%	15,149,500.00
Annual Giving (10K or less)	2,741,921.96		2.31	119%	2,741,921.96
Subtotal: Ind Giving	24,039,216.47		21.27	113%	24,039,216.47
Corporate Giving	3,182,823.90		2.05	155%	3,182,823.90
Foundation & Other Org Giving	1,318,742.01		5.13	26%	1,318,742.01
Corporate Sponsored Research	16,309,474.00		13.33	122%	16,309,474.00
FUNDRAISING TOTAL	44,850,256.38		41.77	107%	44,850,256.38

IX.   ACTION AND DISCUSSION ITEMS

A.   Emeritus Rank

It was moved by D. Sanders, supported by M. Johnson, and passed by voice vote without dissent, that the Board of Trustees approve the following emeritus/emerita appointments:

1. Dr. Stephen Kampe, Professor, Department of Materials Science and Engineering.

B.   Bachelor of Science in Aerospace Engineering

It was moved by M. Johnson, supported by J. Littmann, and passed by voice vote without dissent, that the Board of Trustees approves the Bachelor of Science in Aerospace Engineering.

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

Plante & Moran, PLLC has provided audit services and presented their opinion regarding the 2023 Financial Report for Michigan Technological University.

External Auditor, Brian Greko, Plante Moran:
Plante Moran has issued a clean, unmodified opinion, which is the highest level of assurance they offer as part of the audit process. There were no issues with procedures, processes, or internal controls and full cooperation was given during the audit process

Chair Tomaszewski offers his thanks to the financial team for their assistance during the audit process.

It was moved by D. Sanders, supported by A. Dickson, and passed by voice vote without dissent, that the Board of Trustees approves the audited financial statements.

D. Five-Year State Capital Outlay Plan and Request

It was moved by J. Littmann, supported by D. Sanders, and passed by voice vote without dissent, that the Board of Trustees approves the creation of a Master of Science Degree in Applied Computer Science.

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.

IX. REPORTS (presentations provided in agenda)

A. **A.E. Seaman Mineral Museum Report**
John Jaszczak, Director and John and Phyllis Seaman Endowed Curator, Professor of Physics

B. **American Center for Mobility**
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, Vice President

E. **Graduate Student Government**
Lauren Sprague, President

F. **University Senate**
Robert Hutchinson, President

X. INFORMATIONAL ITEMS (documents provided in agenda)

A. **Analysis of Investments**
C. **Advancement & Alumni Relations**
D. **Media Coverage**
E. **Employee Safety Statistics**
F. **Disposal of Surplus Property**
G. **Contracts 500K**
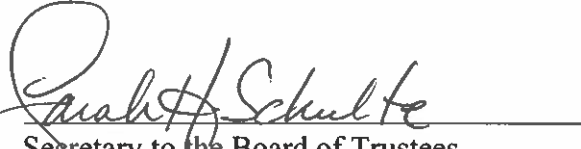
XI. Other Business

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

XIII. Adjourn

It was moved by D. Sanders, supported by M. Johnson, and passed by voice vote without dissent, that the Board of Trustees adjourn the meeting.

Secretary to the Board of Trustees

Chair, Board of Trustees