Formal Session of the Board of Trustees
October 8, 2021
9:00 a.m. – 11:00 a.m.
Location: MUB Ballroom B
Public Meeting

I. Call to Order
Jeffrey Littmann, Chair

II. Roll Call
John Lehman, Acting Secretary

III. Confirm Agenda
Jeffrey Littmann, Chair

IV. Opening Remarks

A. Opening Remarks of the Board Chair
Jeffrey Littmann, Chair

B. Opening Remarks of the University President
Richard Koubek, President

V. Public Comment Period

VI. Committee Reports

A. Academic Affairs Committee
John Bacon, Committee Chair

B. Audit and Finance Committee
Jeff Littmann, Committee Chair

C. Leadership Committee
Steve Tomaszewski, Committee Chair

VII. 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 15, 2021

Subject: Candidates for Degrees – Conferral Term 202105

The attached list of candidates for degrees, beginning with Andy Nguyen and ending with Weibing Li, 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:kph

130 Administration Building | 1400 Townsend Drive, Houghton, Michigan 49931-1295
906-487-2319 | f. 906-487-3343 | registrar@mtu.edu | **mtu.edu/registrar**

Michigan Technological University
Degrees Awarded for Conferral Term 202105

Michigan Technological University Registrar's Office September 15, 2021

Associate of Arts in Humanities
- Andy Nguyen

Bachelor of Arts in Communication, Culture, and Media
- Andy Nguyen
- Artemis Elizabeth-Violet Allison

Bachelor of Arts in Scientific and Technical Communication
- Carley J Daly

Bachelor of Science in Biological Sciences
- Karen Oppliger - Magna Cum Laude

Bachelor of Science in Biomedical Engineering
- Braeden A Rai
- Jacob Charles Evans
- Joseph Allen Stuck
- Joshua Robert Robles
- Skylar Elizabeth Pond

Bachelor of Science in Chemical Engineering
- Jacob Aaron Luchenbill
- Nathaniel Michael Czarnota

Bachelor of Science in Civil Engineering
- Alex Spears
- Sydney Lynn Mukavetz

Bachelor of Science in Computer Engineering
- Ethan Kelly Laytner
- Ryan Patrick Barton

Bachelor of Science in Computer Network and System Administration
- Emily R Boik
- Jason Thomas Lucking
- Stuart Gordon Hoxie - Cum Laude

Bachelor of Science in Computer Science
- Caleb Holden Melnychenko
- Caleb Owen Swain
- Ethan James Idzior
- Jared Michael Perttunen
- Lawton Samuel Stone
- Liam Nicholas Robinson
- Parker Lee Ackerman
- Paul Joseph Mahowald

- Tristan Avery Sorensen
- Victoria Rose Felton

Bachelor of Science in Construction Management

- Gabe Matthew Halonen - Cum Laude
- Tanner George Nicholas - Cum Laude

Bachelor of Science in Electrical Engineering

- Alexander Emmanuel Bathum
- Benjamin Christian Rumney
- Christian James Fallon
- Dylan S Rosenfeldt
- Evan A Branstad
- Garek John Dyszel - Magna Cum Laude
- Hunter William Lewis
- Michael James Lewin
- Stephan Eric Ballance

Bachelor of Science in Electrical Engineering Technology

- Corey Charles Blankenship

Bachelor of Science in Engineering

- Richard Dale Close

Bachelor of Science in Engineering Management

- Benjamin Lee Painter
- Jacob Andrew Mongrain

Bachelor of Science in Exercise Science

- Austin R Lemler
- Tanner Jeffrey Polglaze - Magna Cum Laude

Bachelor of Science in Forestry

- Eleanor K Barton

Bachelor of Science in Geological Engineering

- Caleb J Kaminski - Cum Laude
- Donelle Antoinette Auten
- Korrina Kay Young
- Madeline Marie Anderla
- Makala Marie O'Donnell

Bachelor of Science in Human Biology

- Mackenna Madelyn Bramer

Bachelor of Science in Marketing

- James Edward Jackson

Bachelor of Science in Materials Science and Engineering

- Maria Frances Rochow - Cum Laude

Bachelor of Science in Mathematics

- Daniel Paul Henderson - Cum Laude

Bachelor of Science in Mechanical Engineering

- Adam Mcbride Brewer
- Adam William Misch
- Brad Aaron Halonen
- Brandon Larry Koski
- Case David Kamminga
- Chase Patrick Yach
- Christopher L Stone
- Christopher Ross Smyth - Cum Laude
- David Castelvetere - Magna Cum Laude
- Derek John Willis - Summa Cum Laude
- Isaac J Tussey
- Justin David Owen
- Robert Terrence Dixon - Magna Cum Laude
- Samuel Parker Spencer
- Shelbie R Lehto
- Trenton David Beach

Bachelor of Science in Mechanical Engineering Technology

- Andrew William Ward

Bachelor of Science in Medical Laboratory Science

- Grayson Keith Roe - Magna Cum Laude
- Kacie Roella Ziolkowski - Magna Cum Laude

Bachelor of Science in Physics

- Alan L Larson

Bachelor of Science in Software Engineering

- Benjamin Anthony Vigna
- Coleman Robert Carlstein
- Scott Michael Dohrman

Doctor of Philosophy in Applied Cognitive Science and Human Factors

- Amber Jane Kemppainen

Doctor of Philosophy in Atmospheric Sciences

- Subin Thomas

Doctor of Philosophy in Biological Sciences

- Rehab Khalid H Alhajjar

Doctor of Philosophy in Biomedical Engineering

- Srinivas Kannan

Doctor of Philosophy in Chemical Engineering

- Aaron Scott Krieg
- Sri Ram Kumar Valluri

Doctor of Philosophy in Chemistry

- Amna Ijaz
- Shulin Wan

Doctor of Philosophy in Civil Engineering
- Xiaodong Zhou

Doctor of Philosophy in Electrical Engineering
- Jeffrey Robert Beck
- Masoud Sarabi
- Mojtaba Bahramgiri
- Saeid Jamilan

Doctor of Philosophy in Engineering - Environmental Engineering
- Chenfu Huang

Doctor of Philosophy in Environmental and Energy Policy
- William John Lytle

Doctor of Philosophy in Forest Science
- Dominic Matthew Uhelski
- Stacy Rae Cotey

Doctor of Philosophy in Integrative Physiology
- Joshua Eric Gonzalez

Doctor of Philosophy in Materials Science and Engineering
- Alexander Kiltearn Monroe

Doctor of Philosophy in Mathematical Sciences
- Nadun Lakshitha Dissanayake Kulasekera Mudiyanselage
- Yanfang Liu

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics
- Amir Abbas Khameneian
- Esmaeil Dehdashti
- John Eliot Naglak
- Luke W Jurmu
- Nathan David Spike
- Saeed Jafari Kang
- Shahab Bayani Ahangar

Doctor of Philosophy in Rhetoric, Theory and Culture
- Hua Wang

Doctor of Philosophy in Statistics
- Cheng Gao

Master of Business Administr. in Business Administration
- Travis Michael Williams

Master of Forestry in Forestry
- Erica Lynn Krause
- Hudson Steven Cermak
- Laura Marie Slavsky
- Thomas Laurent De Triquet

Master of Science in Accounting
- Bradley G Veale
- Ricky John Greub

Master of Science in Applied Ecology
- Madeline Rose Peterson

Master of Science in Applied Natural Resource Economics
- Oluwatomisin Shalom Akinbo

Master of Science in Applied Physics
- Amin Hashemi Shahraki
- Seyedmostafa Rezaeitaleshmahalleh

Master of Science in Applied Statistics
- Adam Jarrad Hall
- David Saric
- Elise Alexandra Cromwell
- Fifatin Chariotte Angele Kotomale
- Huy Duc Tran
- Jason Thomas Blunk
- Kathryn Smith
- Kyle Flashman

Master of Science in Biological Sciences
- Bhavika Therani
- Dana L Anderson
- Grant Sebastien Thivierge
- Kaitlyn Dawson

Master of Science in Biomedical Engineering
- Karl Lawrence Schneider

Master of Science in Chemical Engineering
- Marissa Rose Gallmeyer
- Sean Kevin Golden

Master of Science in Chemistry
- Abigale Sharon Mikolitis
- Logan David Mikesell

Master of Science in Civil Engineering
- Brittany Kay Hubbard
- Mohammad Anas Taeb
- Tristan Odekirk

Master of Science in Computer Science
- Dante F Paglia
- Naveen Rao Boinapelly
- Reza Habibi

Master of Science in Data Science
- Hunter M Chambers

Master of Science in Electrical Engineering

- Aadam Ismail Harnekar
- Gaurish Shreedhar Gokhale
- Shivanshi Kamlesh Shukla

Master of Science in Electrical and Computer Engineering

- Advait Milind Velankar
- Jaisil Rose Dennison
- Md Aamir Rahmani
- Nikhil Kumar Reddy Battula
- Rahul Gotiram Dange
- Vishal Dayanand Devnale

Master of Science in Environmental Engineering

- Garion David Johnson
- Karleigh Marie Krieg

Master of Science in Forestry

- Heidi Ellen Harmala

Master of Science in Geology

- Kavya Sivaraj
- Pauline Ginette Louise Verdurme
- Stepan Pikul

Master of Science in Geophysics

- Cristhian Paul Salas Pazmiño

Master of Science in Industrial Heritage and Archaeology

- Andrew Jacob Anklam

Master of Science in Kinesiology

- Jessica Lynn Pitts

Master of Science in Mathematical Sciences

- Kyle James Schwiebert
- Mohammadsina Almasi

Master of Science in Mechanical Engineering

- Akshay Sharma
- Andrew Michael Barclay
- Aniket Vilas Beldar
- Ashish Pravin Patil
- Benjamin David Wiegand
- Devesh Taneja
- Gaurav Pathak
- Jatin Kumar Singh
- Kartheek Choudari
- Kunal Manohar Chauhan
- Lokesh Ganesh Dhake
- Nikhil Nityanand Pai

- Prakhar Maheshwari
- Pratik Prakash Vyavhare
- Pugazhendhi Shanmugam
- Rahul Jaysing Patekar
- Riteshkumar Pannalal Singh
- Rucha Milind Kelkar
- Sai Vineeth Kallu
- Shreya Prasad Thakare
- Shubham Shridhar Pawde
- Sneha Jagdish Gadkari
- Somerset Robert Schrock
- Venkata Satya Sai Revanth Mattey
- Vrushaketu Baburao Mali

Master of Science in Statistics

- Tessa Kay Kriz
- Weibing Li

C. Resignations, Retirements, and Off Payroll

Formal Session of the Board of Trustees - Consent Agenda

BOARD OF TRUSTEES OFF-PAYROLL REPORT

(July 1, 2021 – September 4, 2021)

RETIRED

Name	Class	Department	Title	Most Recent Hire Date	Term Date
Tomas Co	Faculty	Chemical Engineering	Associate Professor	10/02/1989	09/01/2021
Faith Morrison	Faculty	Chemical Engineering	Professor	02/05/1990	09/01/2021
Douglas Oppliger	Faculty	Engineering Fundamentals	Senior Lecturer	08/20/2000	08/20/2021
Warren Perger	Faculty	Physics	Professor	08/31/1987	08/20/2021

OFF-PAYROLL

Name	Class	Department	Title	Most Recent Hire Date	Term Date
Amanda Adams	Staff	Residential Dining	Food Service Helper	11/17/2014	08/13/2021
Rebecca Barnard	Staff	Pavlis Honors College	Marketing & Content Specialist	10/13/2014	08/06/2021
Jessica Brassard	Staff	Associate Vice President for Research Development	Associate Director Research Development	01/05/2015	08/26/2021
Sean Brown	Staff	Residential Education & Housing	Residence Life Coordinator	07/17/2017	07/01/2021
William Corrigan	Staff	Catering	Catering Manager	11/07/2016	08/28/2021
Paula DeCaire	Staff	Facilities Management	Grounds person	02/11/2019	08/13/2021
Stefaan DeWinter	Faculty	Mathematical Sciences	Professor	08/07/2011	07/19/2021
Stephen Eles	Staff	Media Tech Services	Assistant Director Media Technology Services	08/25/2014	07/02/2021
Ramon Fonkoue	Faculty	Humanities	Associate Professor	08/20/2012	08/08/2021
Wendy Freeman	Staff	Human Resources	Office Assistant 5	01/11/2021	08/03/2021
Timothy Griffin	Staff	Facilities Management	Director of Maintenance Services	02/11/2013	08/02/2021
Rebeka Horsch	Staff	Student Leadership & Involvement	Coordinator	06/18/2018	07/10/2021
Shannon Houle	Staff	Jackson Center for Teaching & Learning	Office Assistant 5	08/14/2017	09/02/2021
Amy Howard	Staff	Center for Diversity & Inclusion	Assistant Director of Campus Diversity Initiatives	07/05/2017	09/03/2021
Rachel Jones	Staff	Residential Education & Housing	Assistant Director of Residence Education	07/05/2016	07/13/2021
Stefani Krause	Staff	Student Leadership & Involvement	Coordinator	07/29/2019	07/10/2021
Joshua Loar	Faculty	Visual & Performing Arts	Professor of Practice	08/19/2013	08/06/2021
John Longenecker	Staff	Residential Dining	Food Service Helper	04/02/2012	08/13/2021
John McLeod	Staff	University Marketing & Communications	Creative Design Lead	03/23/2020	08/13/2021
Joshua Pearce	Faculty	Electrical and Computer Engineering	Professor	08/07/2011	08/07/2021
Joseph Pollard	Staff	Public Safety & Police Services	Public Safety Officer	03/23/2020	07/07/2021
Ashley Schuette	Staff	Admissions	Manager of Campus Visit Experiences	05/20/2019	08/06/2021
Ye Sun	Faculty	Mechanical Engineering-Engineering Mechanics	Associate Professor	08/18/2014	07/29/2021
Jinshan Tang	Faculty	Applied Computing	Professor	08/07/2011	08/24/2021
Margaret Wallenslager	Staff	Wadsworth Hall Food Service	Food Service Helper	08/09/2021	08/10/2021
Zeying Wang	Faculty	Mathematical Sciences	Assistant Professor	08/20/2012	08/13/2021
Brian White	Staff	Michigan Tech Research Institute (MTRI)	Research Engineer II	10/01/2006	07/16/2021
Stephen Zapolnik	Staff	Associate VP for Research Development	Associate Director Laboratory Operations	05/07/2018	07/03/2021

D. Fundraising Productivity Report

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report
July 1, 2021 through August 31, 2021
Compared to Prior Fiscal Year

FY22

Source	YTD Total	Adjustment	FY Goal (in millions)	% of Goal
Individual Giving	3,176,284		20.75	15%
Corporate Giving	381,156		2	19%
Foundation & Other Org Giving	127,417		5	3%
Corporate Sponsored Research	3,522,509		13	27%
FUNDRAISING TOTAL	**7,207,365**	**-**	**40.75**	**18%**

Amt of TOTAL from Gifts-in-Kind	*225.00*	*(included in the source totals above)*
Amt of Gifts/Pledges earmarked for the endowment	*1,386,397*	*(included in the source totals above)*
Amt of Gifts/Pledges earmarked for unrestricted funds	*20,065*	*(included in the source totals above)*

		FYGoal	% of Goal
TOTAL PROGRESS TOWARDS FY GOAL	**$ 7,207,365**	**40.75**	**18%**

Realized Planned Gifts - All	*803,202*	*(NOT included in the source totals above)*
Amt of Realized Planned Gifts earmarked for the endowment	*53,202*	

Realized Pledges	*847,956*	*(NOT included in the source totals above)*

FY21

Source	YTD Total	Adjustment	FY Goal (in millions)	% of Goal	FY21 Total
Individual Giving	1,902,492	*2,000,000*	18.25	10%	20,555,962
Corporate Giving	69,362		1	7%	2,312,019
Foundation & Other Org Giving	58,237		1	6%	4,172,024
Corporate Sponsored Research	2,289,123		11	21%	14,807,686
FUNDRAISING TOTAL	**4,319,214**	**2,000,000**	**31.25**	**14%**	**41,847,691**

Notes:

The Adjustment totals include changes to gift records (eg. gift received date, amount, or other donor driven gift modifications)
The FUNDRAISING TOTAL includes outright gifts, as well as new pledge and planned gift commitments, made in the specified date range.
Realized planned gifts and realized pledges are not included in the FUNDRAISING TOTAL.
An individual's gifts made through a donor-advised fund are counted under the individual.
An individual's gifts made through another source (i.e. family foundation or closely held business) are counted under the source entity.
The FUNDRAISING TOTAL for fiscal years 2020 and later include gifts-in-kind under other sources (Major Gifts, Annual Giving, etc).

E. 2022 Meeting Dates

VII-E. 2022 BOARD OF TRUSTEES MEETING DATES
The following dates are presented for approval

Retreat
Wednesday, February 23, 2022 (half day)
Thursday, February 24, 2022

Formal Session
Friday, February 25, 2022
Friday, April 29, 2022
Thursday, August 4, 2022
Friday, October 7, 2022
Friday, December 16, 2022

RECOMMENDATION: That the Board of Trustees approves the 2022 meeting dates as presented.

VIII. Action and Discussion Items

A. Revision to Board Policy 6.4 Academic, Tenure, and Promotion

Jacqueline Huntoon, Provost

VIII-A. REVISION TO BOARD POLICY 6.4. ACADEMIC, TENURE, AND PROMOTION

It is being recommended that this policy be revised to allow faculty the opportunity to request a second one-year exceptional circumstance extension to the time allowed prior to a mandatory tenure decision. The COVID-19 pandemic caused substantial disruptions in many aspects of University life. As the pandemic and its associated disruptions have continued for a second year, the need to update this policy has become apparent. The proposed change will bring this section of the policy into alignment with the extensions allowed due to birth or legal adoption of a child. The policy revision also includes minor editorial changes. Exceptional extension of the probationary period is also addressed in section 2.2 of the Faculty Handbook and Section 5.1.2 of Appendix I in the Faculty Handbook. Should the Board approve this revision to Board Policy, the appropriate sections of the Faculty Handbook will also be updated.

RECOMMENDATION: The Board of Trustees approves the revision of Board Policy 6.4. Academic Tenure and Promotion as presented.

B. **Creation of Board Policy 6.9, Teaching Evaluations**
Jacqueline Huntoon, Provost

VIII-B. CREATION OF BOARD POLICY 6.9, TEACHING EVALUATIONS

Comments made by students on any University-administered teaching evaluation instrument will be shared in verbatim form with instructional personnel as well as with each instructor's direct supervisor (for GTAs/GTIs) and the academic administrator of the unit(s) offering the course. Deans of colleges with departments and the provost (or their designee) will be provided with the summarized numerical responses and will be provided with access to written comments upon request.

VIII-C. FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The Five-Year State Capital Outlay Plan and FY2023 Capital Project 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 Five-Year State Capital Outlay Plan and FY2023 Capital Project Request to be submitted to the State of Michigan.

FY23 FIVE-YEAR STATE CAPITAL OUTLAY PLAN AND REQUEST

The FY23 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 FY23 Five-Year State Capital Outlay Plan and Request to be submitted to the State of Michigan.

FY23 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) - Phase I	175,000	0	70,000	30,000	40,000	2023/2026
2	Center for Convergence and Innovation (CCI) - Phase II	150,000	0	60,000	30,000	30,000	2024/2027
3	H-STEM Engineering and Health Technologies Complex – Phase II	12,500	87,000	69,000	30,000	39,000	2027/2028

Description

1. Center for Convergence and Innovation (CCI) - Phase I: The Center for Convergence Innovation (CCI) will help position Michigan's economy as a leader in digital transformation through cutting edge research, workforce development and strategic partnerships. According to the Michigan Bureau of Labor, the state expects a 7.5 percent increase in workforce demand for business and financial operations, computer and mathematical operations and engineering or roughly 11,000 new jobs over the next seven years. Michigan Tech's College of Computing alone saw a 10% year-over-year increase in undergraduate enrollment for Fall 2021 and is poised to double in size by the end of the decade. Phase 1 of the CCI also aligns with Michigan's "60x30" and economic prosperity goals by supporting innovations in computing, connectivity, sensorization, and business in this new age of digital transformation.

Congruent with the state's long-term economic transformation, the project will provide a place to converge existing business, data science, and computing programs 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 Colleges of Business and College of Computing will be commingled to promote cross-disciplinary collaboration, innovation, and entrepreneurship.

The design of the building will intentionally promote connections among faculty and students from across both colleges. Reconfigurable spaces and theme-based shared digital lab facilities will be spread throughout. Additional features of the building will include convergence centers of excellence (fintech, cybersecurity, data science and business analytics, health informatics, and tech-based entrepreneurship), active-learning, computer-learning, and remote-learning classrooms, flexible collaboration spaces open to all, student learning centers, open access conference rooms, a reconfigurable digital maker space, entrepreneurship training hall, and large, mid- and small-sized lecture halls. In addition to meeting our convergence needs, this building will facilitate continued aggressive growth. The estimated investment of $70,000,000 will allow Michigan Tech's Colleges of Business and Computing to realize their combined potential and ensure Michigan's future economic prosperity.

2. Center for Convergence and Innovation - Phase II: Phase II will focus on expanding vitally important areas within the Colleges of Business and Computing and intentionally support university-industry collaboration. The building will include P3 (public-private partnership) space reserved for Michigan industries to co-locate on campus as university researchers work together with business leaders to address talent needs of Michigan's workforce and advance the state's economy through research and development. The Phase II project will promote rapid conversion of digital technology innovations into industry to provide Michigan firms with a competitive advantage. These public-private partnerships will also provide faculty and students with opportunities to engage in real-world problem- and project-based learning that will give them a clear understanding of how computing and business can collaborate to promote economic prosperity and social mobility for the state and its citizens. Michigan Tech is known within industry for producing graduates who hit the ground running from day one on the job. The co-location of industry within the academic environment will strengthen Michigan's Tech ability to serve the industries of the state by offering experiential education to all students. The total project cost is estimated at $60,000,000, and this investment will allow for construction of a 150,000 sq. ft. addition to the Center for Convergence and Innovation.

3. H-STEM Engineering and Health Technologies Complex - Phase II: continues renovation of our existing Chemical Sciences and Engineering building and provides new space. Project features will build on the synergies between engineering and the health sciences that led to Phase I of the H-STEM project. Phase II will focus on expanding and renovating general chemistry and chemical engineering labs, flexible updated active learning classrooms, upgrading air supply and exhaust systems, developing student support space for undergraduate advising, and updating the building's envelope to increase energy efficiency and make improved use of natural light. Phase II will further enable Michigan Tech's growing research and degree programs important to the Michigan economy in areas such as biotechnology, bio-engineering, and the continuum of chemical, biological, and human-health sciences. Phase II will fully embrace

emerging strategies to support safety and effective instructional practices. Phase II will transform an existing facility's rigid layout -- consisting of small individual labs with virtually no collaboration or team working space -- to a modern and welcoming environment that will include highly visible shared spaces where teams of students and faculty will develop creative solutions to advance science to support manufacturing across a variety of Michigan industries. Current work ranges from vaccine manufacturing, the development of biofuels and bioenergy applications, drug development, protein folding, and many other applications that will all be enhanced through the renovation of laboratories and working spaces in Phase II. The value of facilitating this kind of interaction can be seen in the recent award of the one million euro Merck 2021 Future Insight Prize awarded for work done by a team of faculty from Biological Sciences, Chemical Engineering, and Material Sciences and Engineering. The total investment estimated for this project is $69,000,000.

D. Exclusion Resolution for Department of Defense
Dave Reed, VP for Research

VIII-D. EXCLUSION RESOLUTION FOR DEPARTMENT OF DEFENSE

ln 2008 the Board of Control amended policy 12.8. Security Clearance Department of Defense by establishing an Executive Committee. On March 5, 2009, the Board approved an Exclusion Resolution for the Department of Defense that excludes Board of Trustees member's access to classified information unless they are a member of the Executive Committee. The Board appointees to the Executive Committee are Jeffrey Littmann, Brenda Ryan and Derhun Sanders. The Administration is requesting that the Exclusion Resolution be revised to reflect the current Board appointments.

RECOMMENDATION: That the Board of Control adopts the Exclusion Resolution as presented herein.

I, *Richard J. Koubek*, do hereby certify that I am President of Michigan Technological University, a Michigan educational institution organized and existing under the laws of the State of Michigan, and that the following is a true and correct copy of a resolution adopted by the Board of Trustees of Michigan Technological University at a meeting held at Michigan Technological University on *(date)* _____, at which time a quorum was present.

EXCLUSION RESOLUTION

WHEREAS, current Department of Defense Regulations contain a provision making it mandatory that the Senior Management Officials and Facility Security Officer meet the personnel clearance requirements established for a contractor facility security clearance; and

WHEREAS, said Department of Defense Regulations permit the exclusion from the personnel clearance requirements of certain members of the Board of Trustees and other officers, provided that this action is recorded in the corporate minutes.

NOW THEREFORE BE IT DECLARED that the President of the University, Chairman of the Board, Vice President for Research and Facility Security Officer at the present time do possess, or will be processed for, the required eligibility for access to classified information; and

BE IT RESOLVED that in the future, when any individual enters upon any duties as President of the University, Vice President for Research, Chairman of the Board, and Facility Security Officer, such individual shall immediately make application for the required eligibility for access to classified information; and

BE IT RESOLVED AND DIRECTED that the following members of the Board of Trustees shall not require, shall not have, and can be effectively and formally excluded from access to all ***CLASSIFIED*** information in possession of the corporation and shall not affect adversely corporate policies or practices in the performance of classified contracts for the Department of Defense or the government contracting activities (User Agencies) of the National Industrial Security Program.

NAME	TITLE
Andrea Dickson	Board of Trustees Member

IN WITNESS WHEREOF I have hereunto set my hand and affixed the seal of Michigan Technological University on this date: _____.

_____

Richard J. Koubek
President, Michigan Technological University

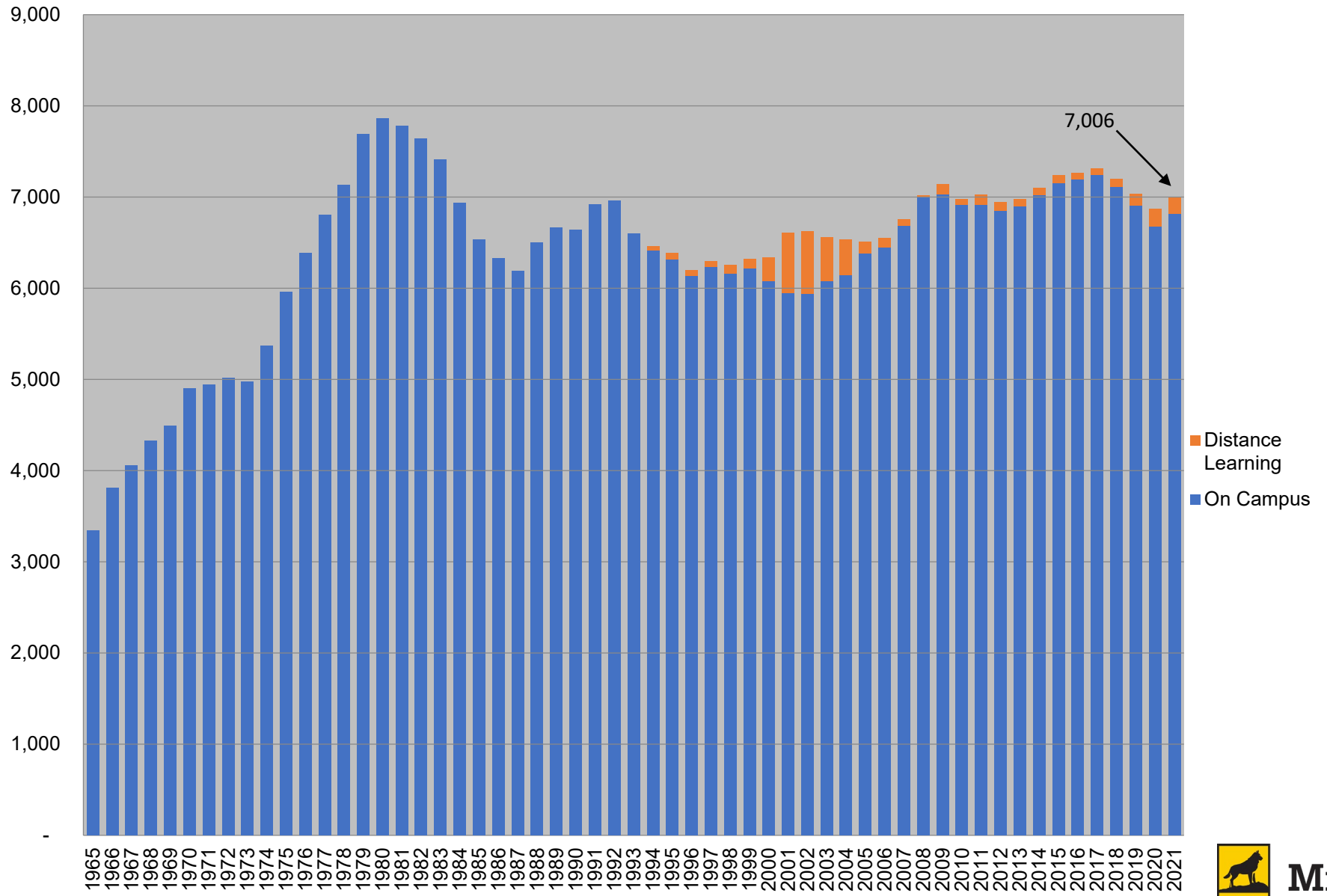
IX. Reports

A. Recruiting and Enrollment Update

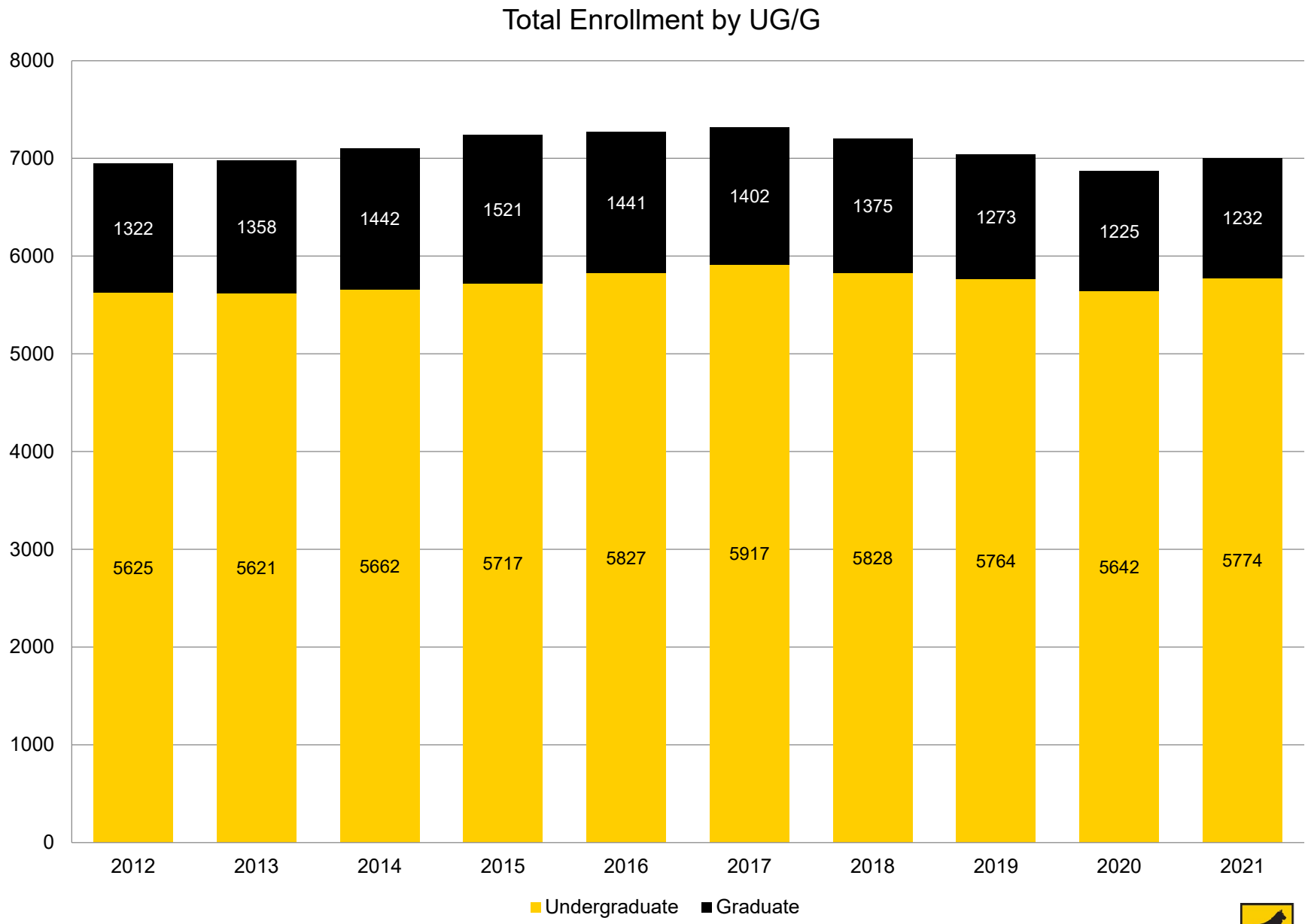
John Lehman, Vice President for University Relations and Enrollment

Board of Trustees Formal Session
Undergraduate Recruitment and Enrollment Review
October 8, 2021

Fall Enrollment 1965-2021

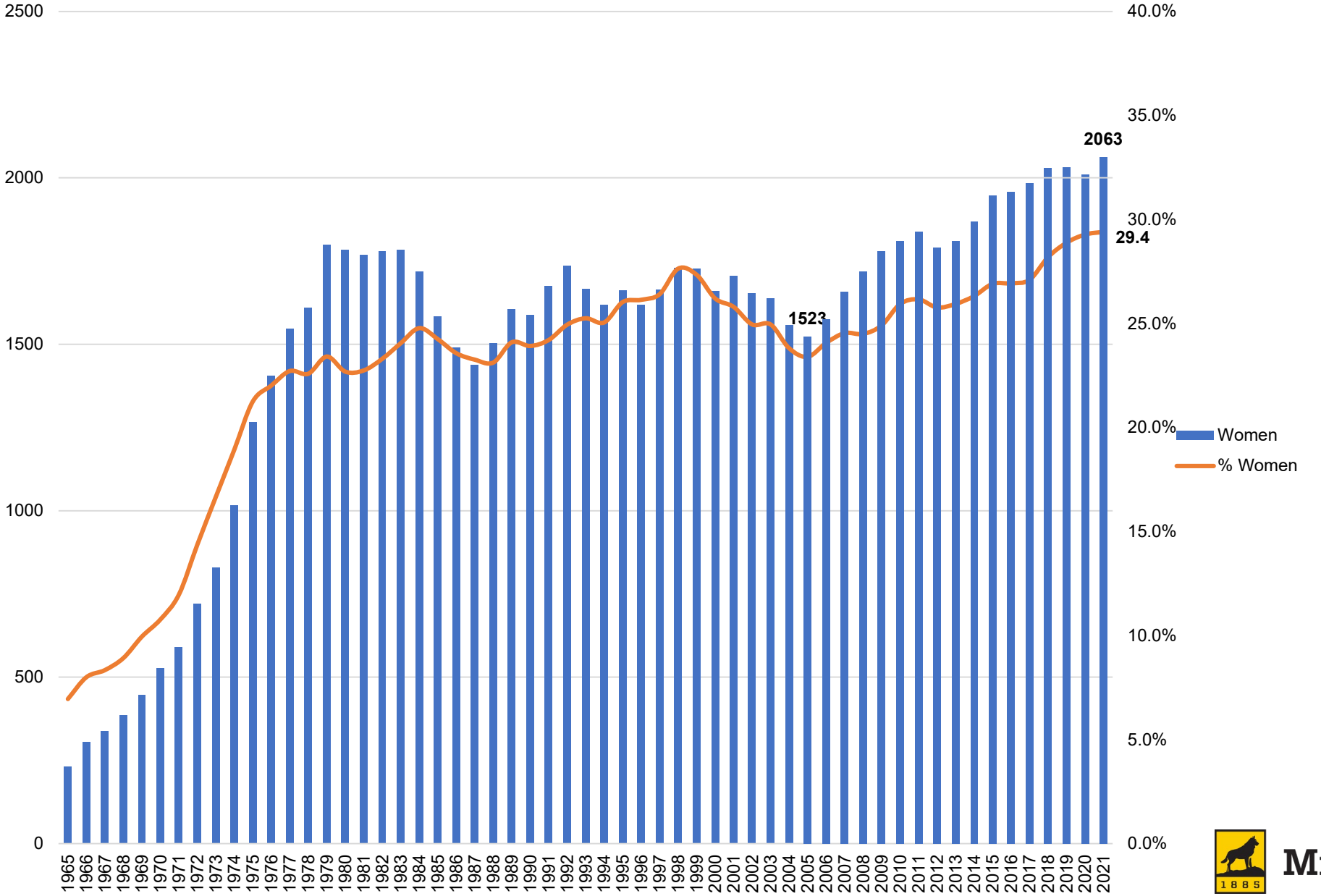


Michigan Tech



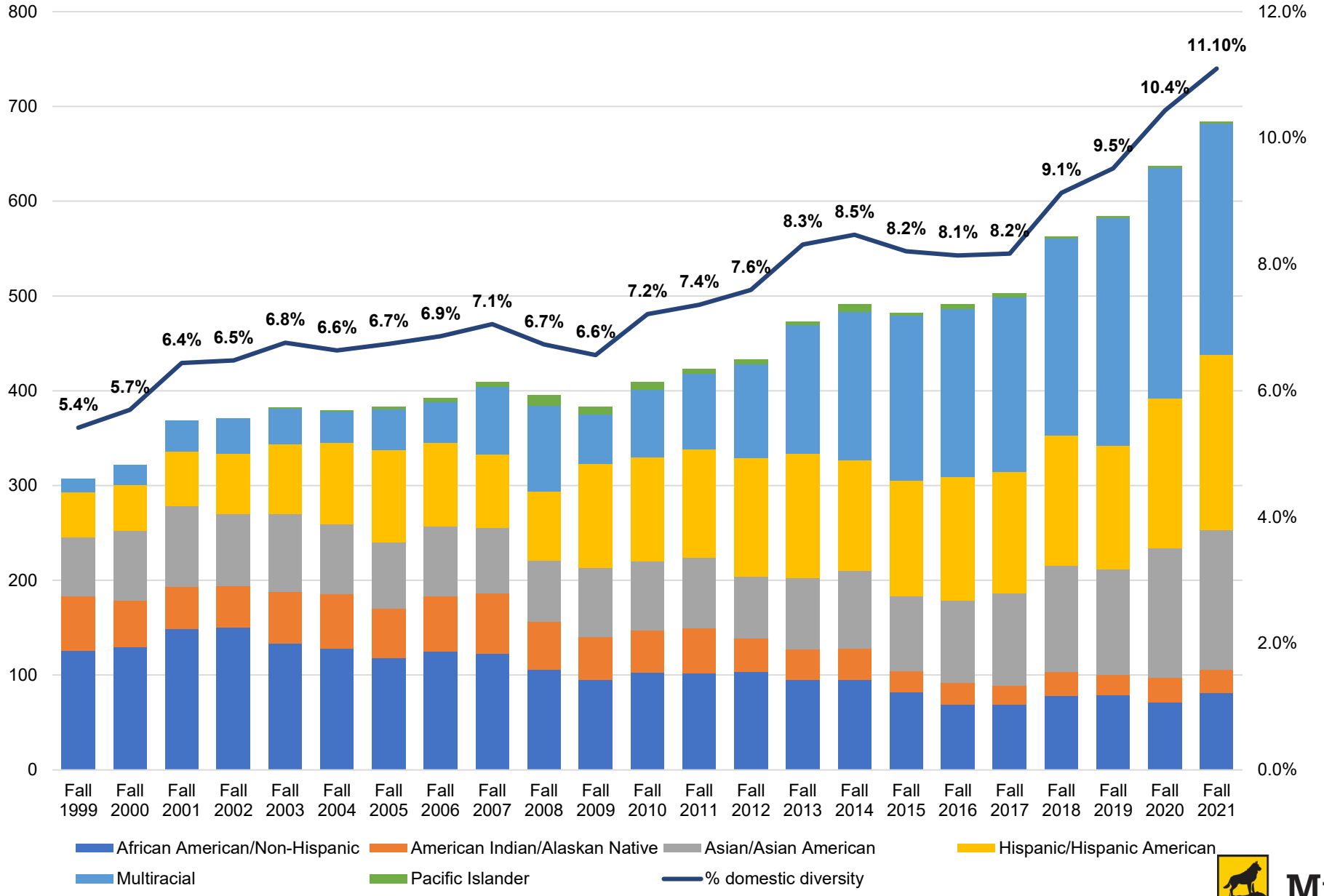
Michigan Tech

Female Enrollment History



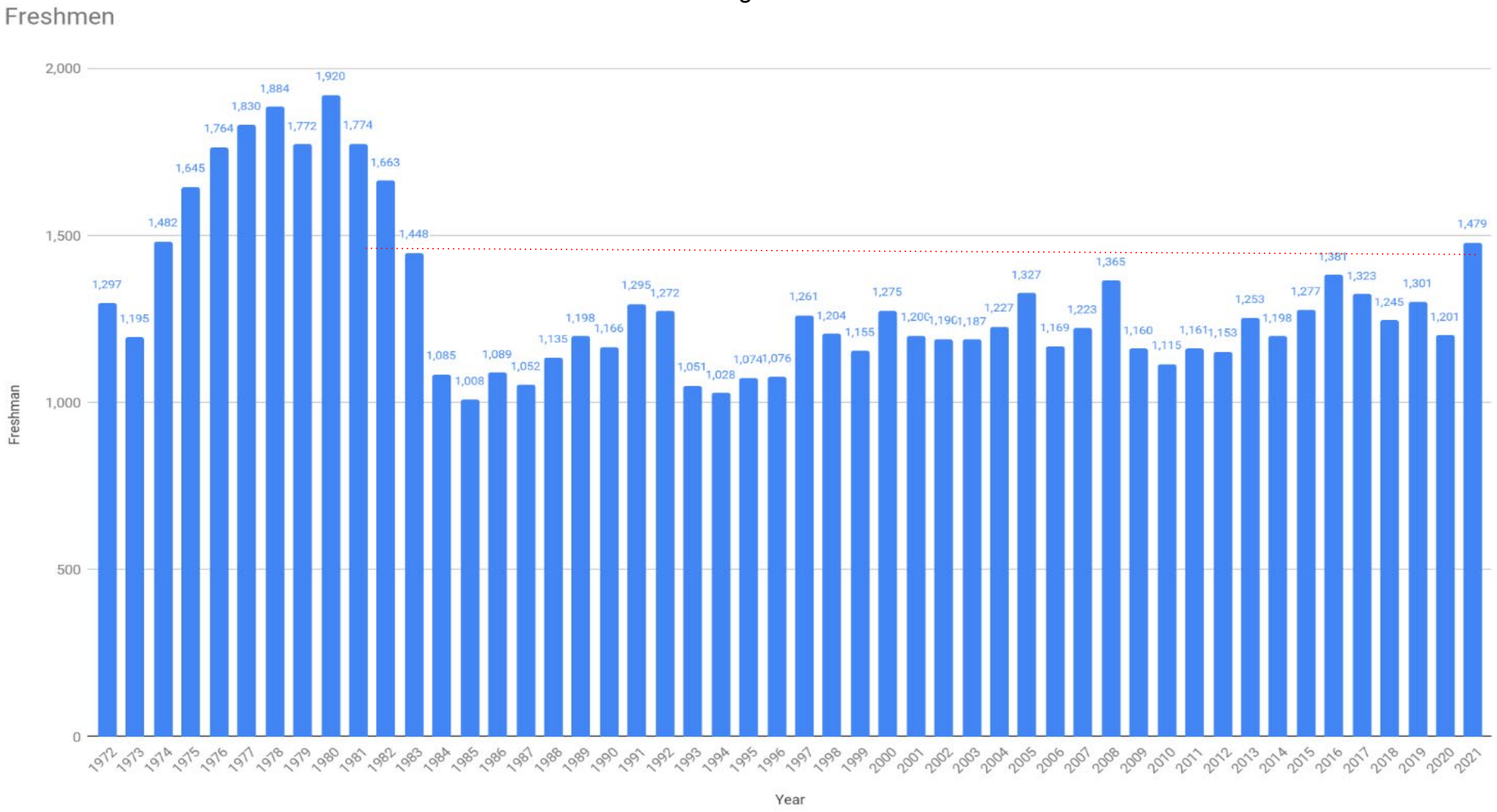
Michigan Tech

Domestic Diversity



Michigan Tech

1972-2021 First Year Undergraduate Student Enrollment

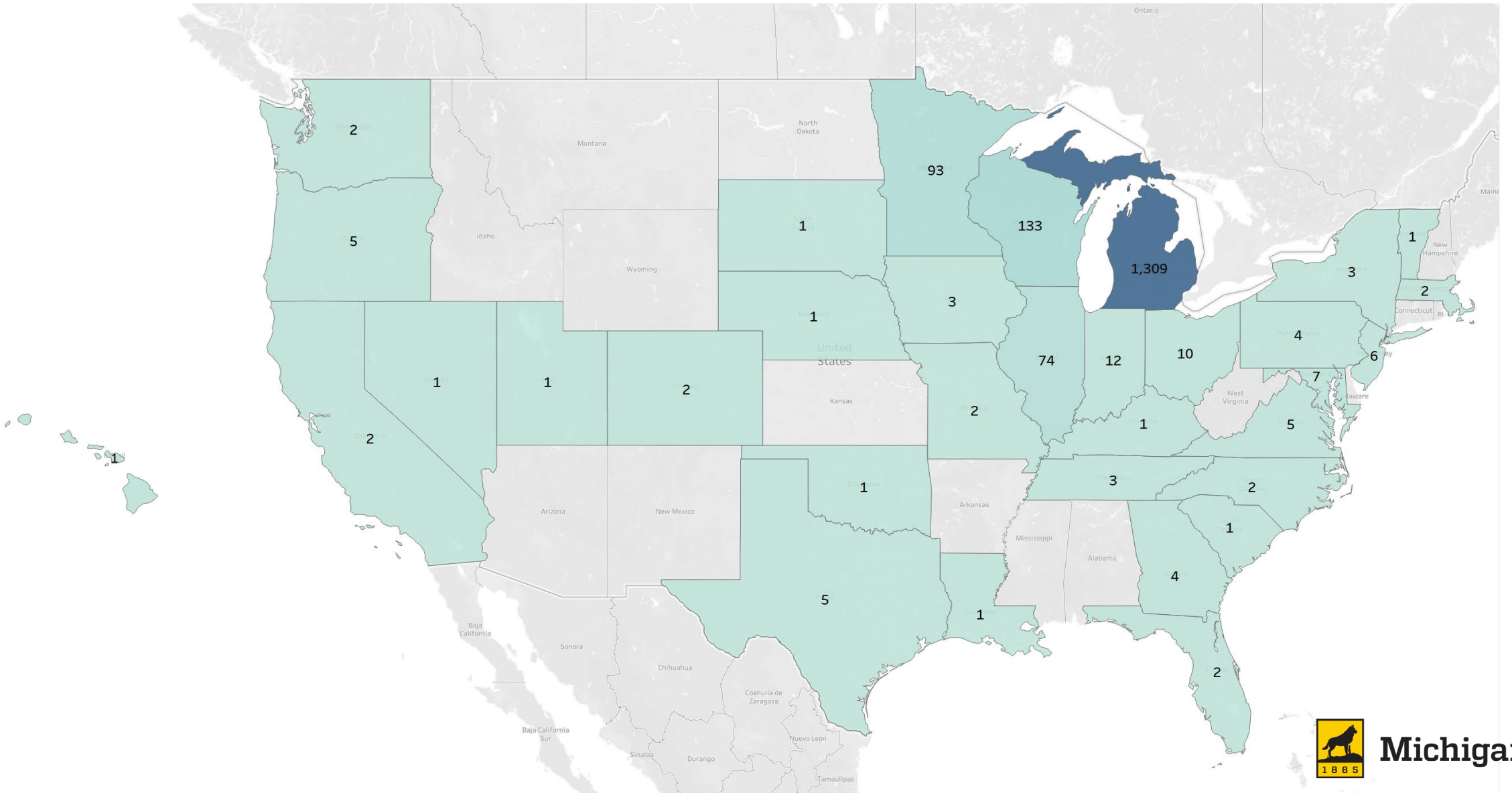


New First Year Students by College

College	2020	2021	Change
Business	68	82	14/21%
Computing	185	224	39/21%
Engineering	742	876	134/18%
Forest Res. & Env. Sci	34	64	30/88%
Sciences & Arts	166	209	43/26%
Interdisciplinary	6	24	18

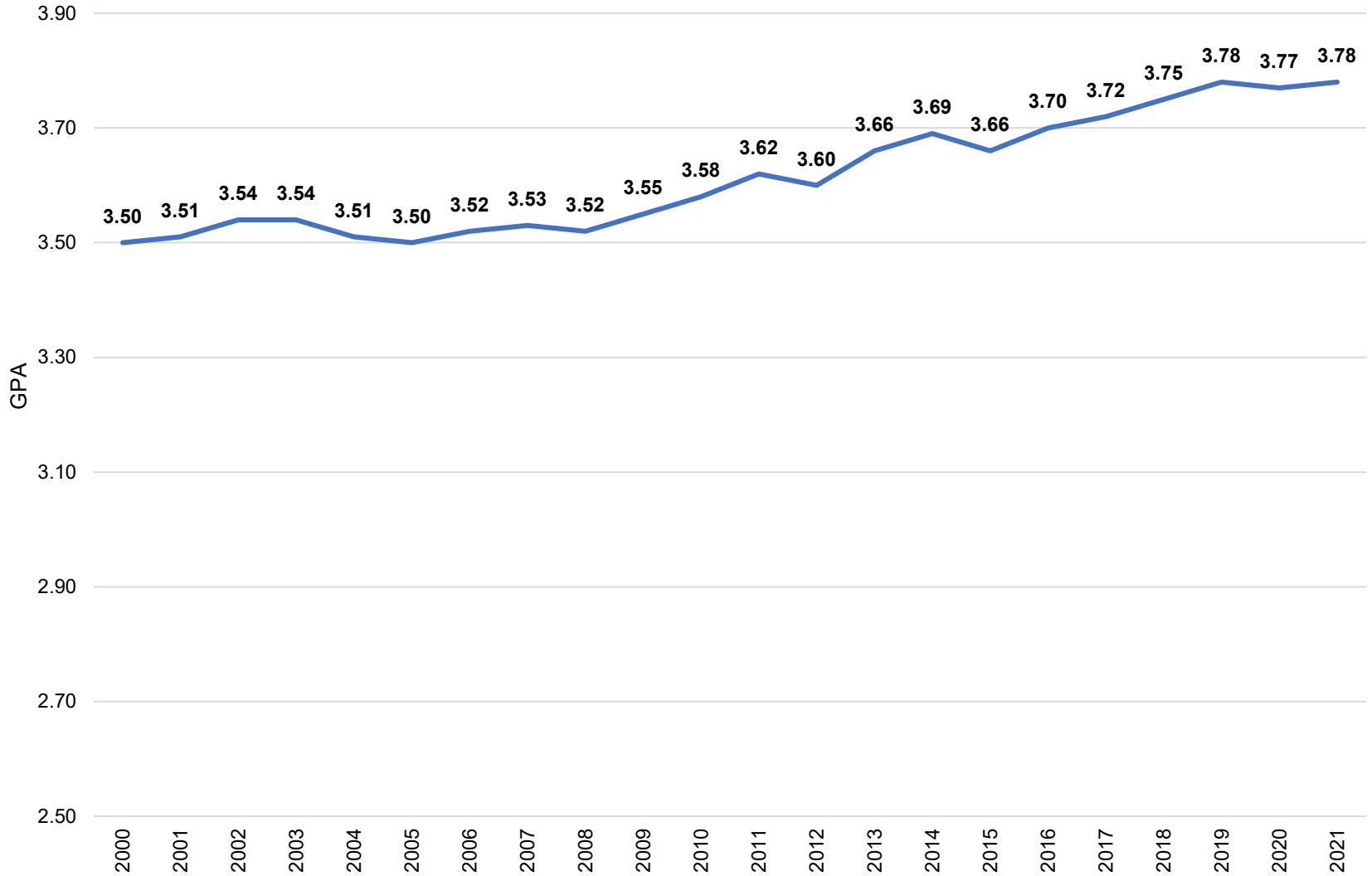
Michigan Tech

Enrolled First Year Undergraduate Students by State



Michigan Tech

Incoming Freshmen High School GPA



Michigan Tech

2021 vs 2020 Graduate Student Enrollment

Non-Degree	39	20	95%
Total Graduate	1,232	1,225	1%

Michigan Tech

THANK YOU

B. Athletics Accomplishments 2020-2021
Suzanne Sanregret, Athletic Director

UPDATES FROM ATHLETICS

Michigan Tech Huskies

MICHIGAN TECH
HUSKIES

2020-21 Highlights

- Hockey
  - Colin Swoyer (second team), Trenton Bliss (third team) & Arvid Caderoth (rookie team) were named All-WCHA
  - Blake Pietila was a finalist for the Mike Richter Award
  - Tech had the third-best penalty kill in the nation and the tenth-best defense
  - Moving to CCHA for upcoming season
- Men's Basketball
  - Qualified for NCAA Tournament for 11th time in program history
    - Regional Finalists - Tied program record for deepest run
  - Owen White
    - All-American
    - Academic All-American
    - GLIAC Player of the Year
  - Kevin Luke retired after 27 seasons and 471 wins
- Nordic Skiing
  - All 6 NCAA skiers scored for first time in program history
  - Anabel Needham was the CCSA & Central Region Champion in classic

2020-21 Highlights

- Women's Basketball
  - GLIAC Regular Season Champs
  - GLIAC Tournament Champs
  - 20th NCAA Tournament Appearance
  - Sam Clayton - GLIAC Coach of the Year
  - Ellie Mackay - GLIAC Player of the Year & All-American
  - School record with 18 straight wins
  - Ranked as high as No. 6 in the nation
  - Team GPA ranked 13th in NCAA Division II
- Volleyball
  - Won a GLIAC Regular Season Title - Second time in program history
  - Laura De Marchi was GLIAC Player & GLIAC Setter of the Year
  - Olivia Ghormley was GLIAC Attacker of the Year
  - Ranked in the top 25 all season
  - Team GPA was top 20 percent in NCAA Division II

2020-21 Highlights

- New press box completed and new turf was installed at Kearly Stadium
- Esports won the 2021 NACE Spring National Championship in CS:GO
- Katherine Jarvis broke the Michigan Tech shot put record.
- Ivona Gorgioski was named All-GLIAC First Team for fourth straight season

2020-21 Highlights

- Academics
  - 3.59 student-athlete GPA
  - 63% of student-athletes received All-Academic honors
  - 56% of student-athletes were on the Dean's list for Spring semester
  - 93% Academic Success Rate - Graduation Rate
  - 87% Retention Rate for all sports
  - All 14 NCAA varsity teams have an overall average team gpa of 3.2 or higher
    - Four teams have 3.7 overall average team GPA
  - 4 Academic All-Americans
    - Laura De Marchi - volleyball
    - Owen White - men's basketball
    - Jesse Jacobusse - soccer
    - Ellie Mackay - women's basketball
  - 3 GLIAC Commissioner's Awards
    - Laura De Marchi - volleyball
    - Cassidy Trotter - women's basketball
    - Owen White - men's basketball

LAURA DE MARCHI

- Academic All-American
- All-American (2x)
- All-Region (2x)
- GLIAC Player of the Year
- GLIAC Setter of the Year (4x)
- All-GLIAC First Team (4x)
- Tech Record - Career Assists
- GLIAC Commissioner Award (2x)
- Team Captain (3x)
- 2017 GLIAC Freshman of the Year
- Double Major Biomedical & Electrical Engineering
- 3.77 GPA
- Native of Milan, Italy
- Ticket Office Employee
- Little Huskies Coach

COVID-19 Response

2020-2021

- Approximately 16,000 tests conducted
- Played a conference only schedule
- All scheduled contests completed except for 2 volleyball matches and 1 tennis match
- Excellent work by our staff, coaches, student-athletes
- Celebrated every opportunity to practice and complete

Planning for 2021-2022

- Resuming a normal conference and non-conference schedule
- Pre-competition and weekly surveillance testing for unvaccinated student-athletes, coaches and staff
- Continue to follow guidance from our LHD and NCAA Sports Science Institute


GAMES WON

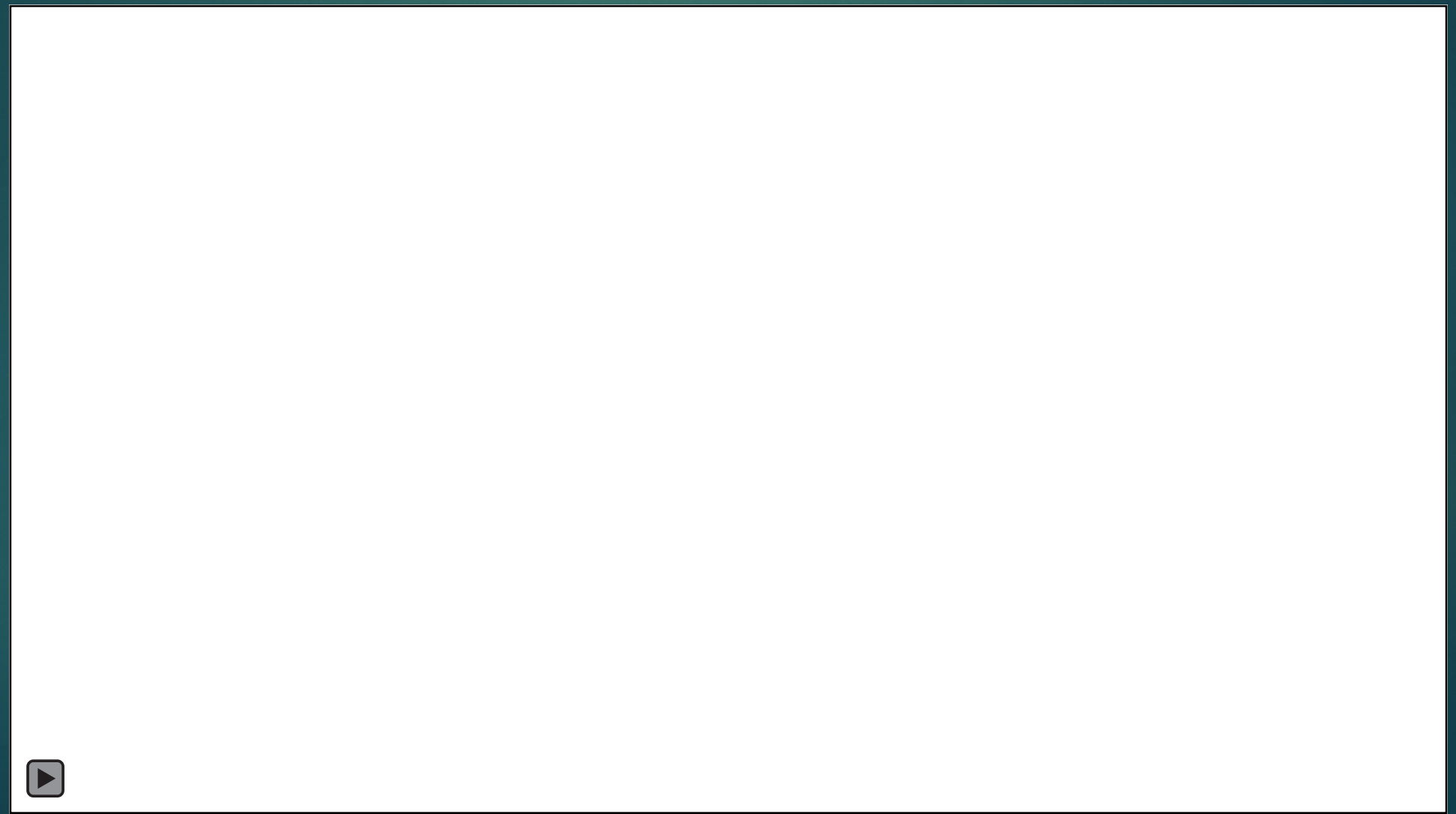
C. Fruit Flies: Enemies of the Kitchen Heroes of Genetics!
Thomas Werner, Associate Professor, Biological Sciences

FRUIT FLIES: ENEMIES OF THE KITCHEN HEROES OF GENETICS!

THOMAS WERNER
DEPARTMENT OF BIOLOGICAL SCIENCES
MICHIGAN TECHNOLOGICAL UNIVERSITY
OCTOBER 8TH, 2021

Why study fruit flies?

Many human diseases can be studied in fruit flies!
More than 5000 fruit fly species exist worldwide!



Our projects

1) Developmental genetics of color pattern formation

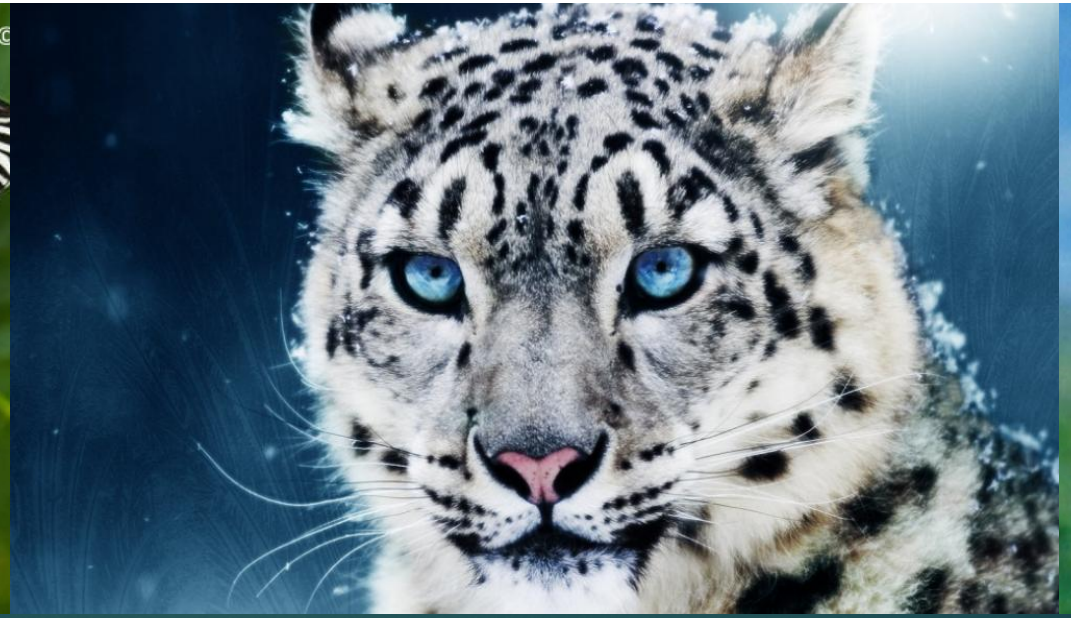
2) Genetics underlying mushroom toxin resistance

3) Huron Mountain Club long-term insect survey

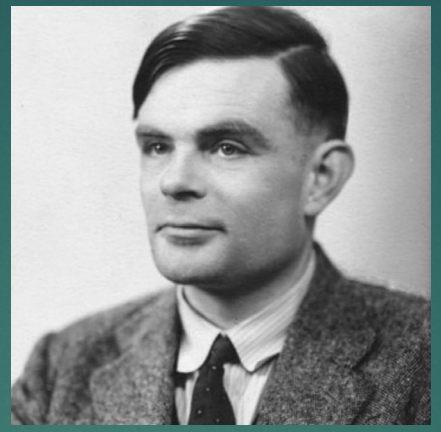
4) Field guide to the fruit flies of the US

5) Fertility, fecundity, longevity, obesity (undergrad-initiated projects)

1) Color patterns

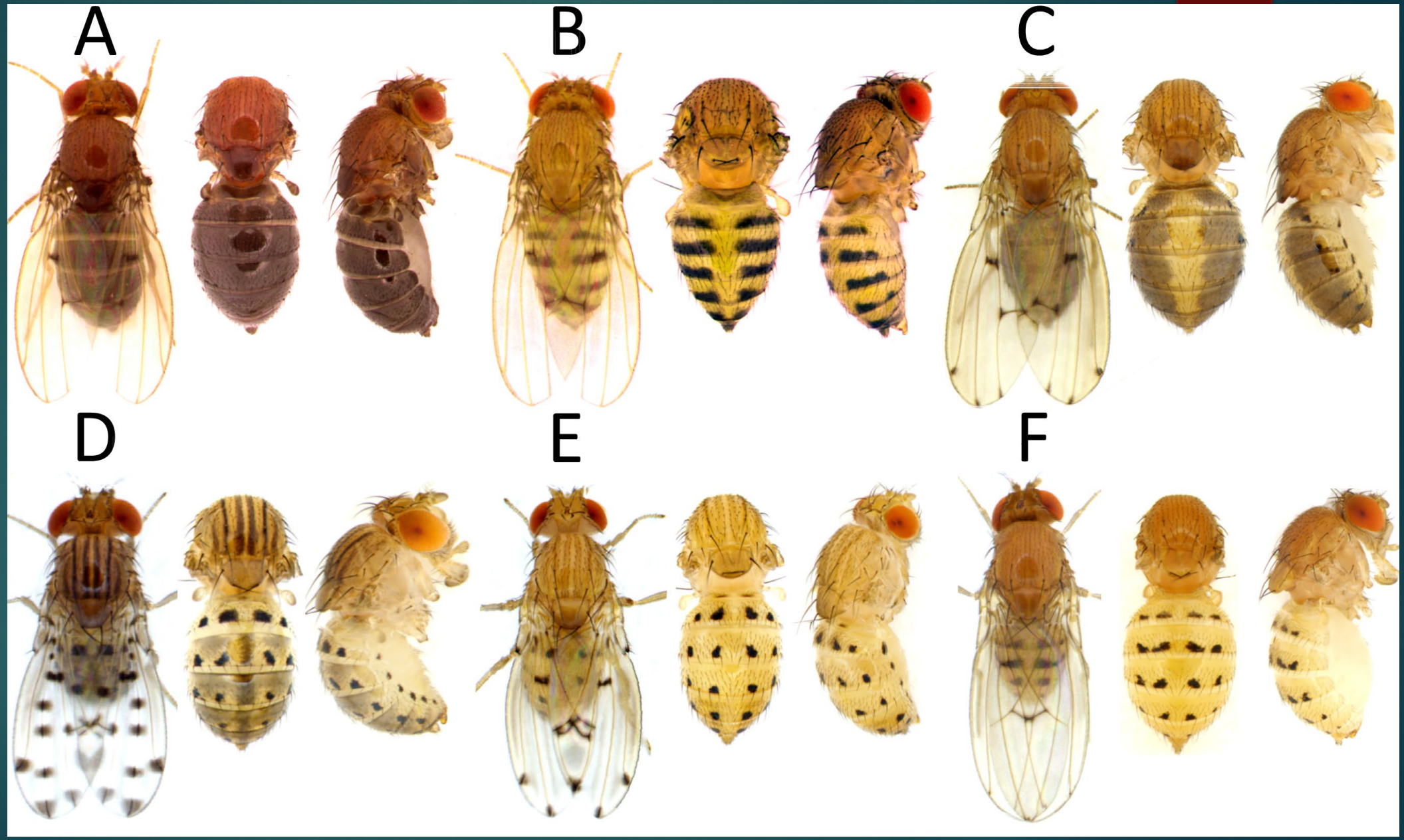


Alan Turing predicted the involvement of morphogens.



We proved him right!

Abdominal color patterns involve morphogens, too!



2) The genetics of mushroom toxin resistance

NSF Dimensions (5 years)

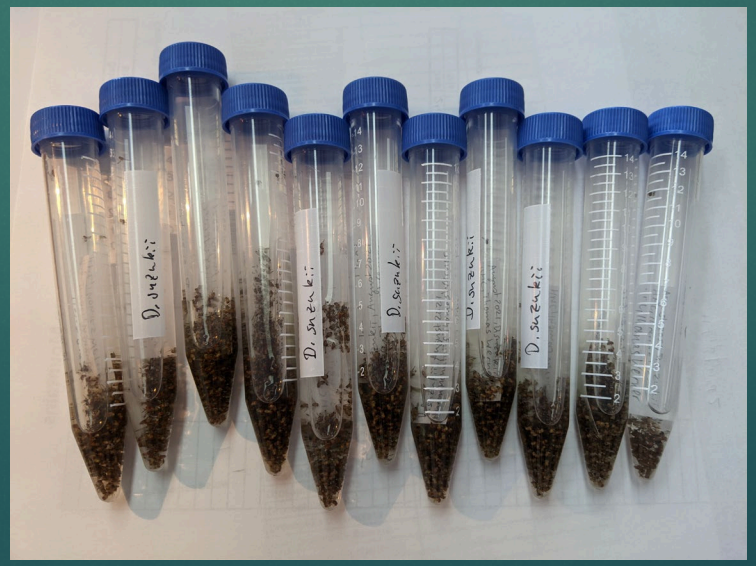
4 fruit fly species
3 geographical locations

- Inter- and intra-specific variation
- Genetic mechanisms
- Fitness costs

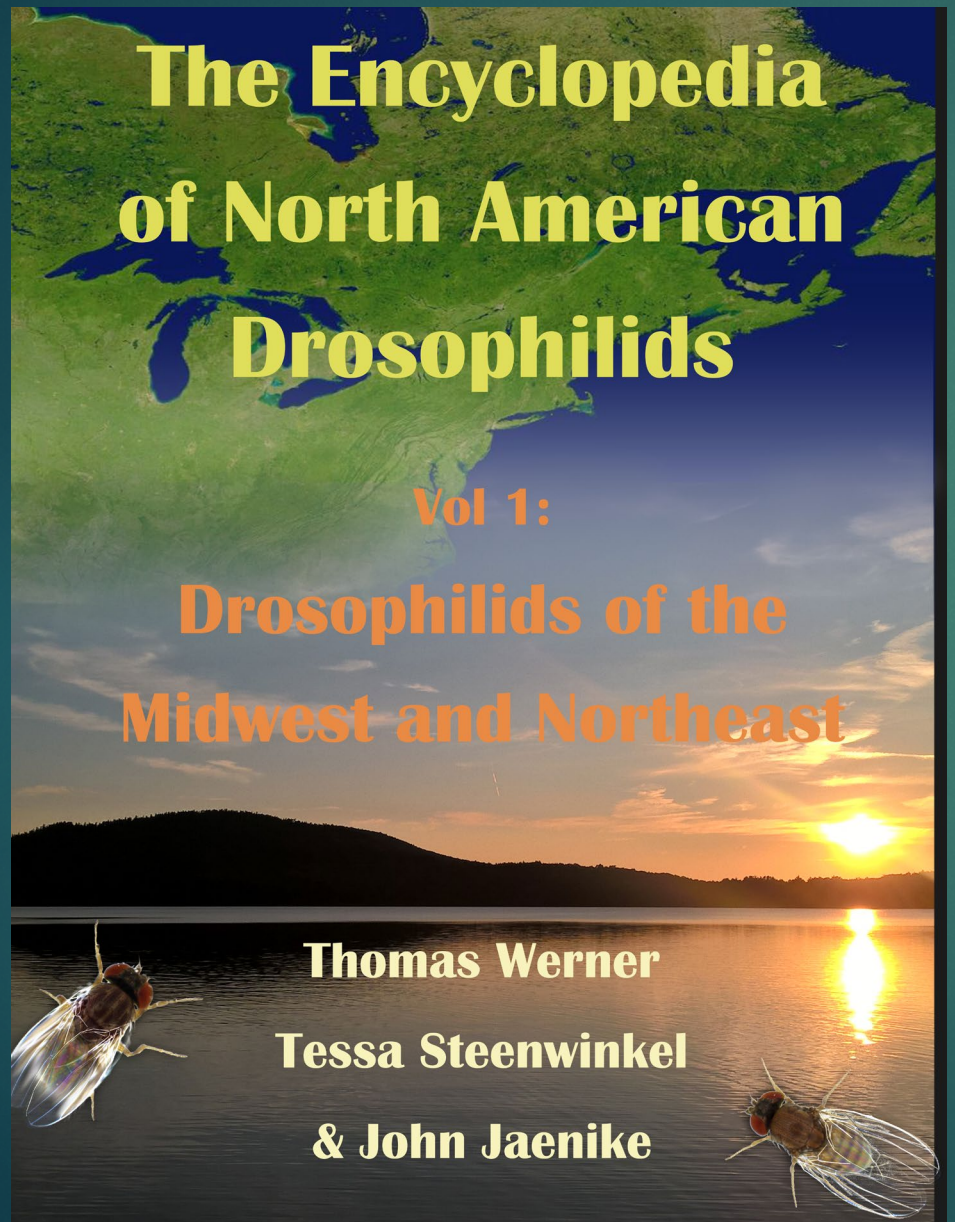
3) Huron Mountain Club insect survey

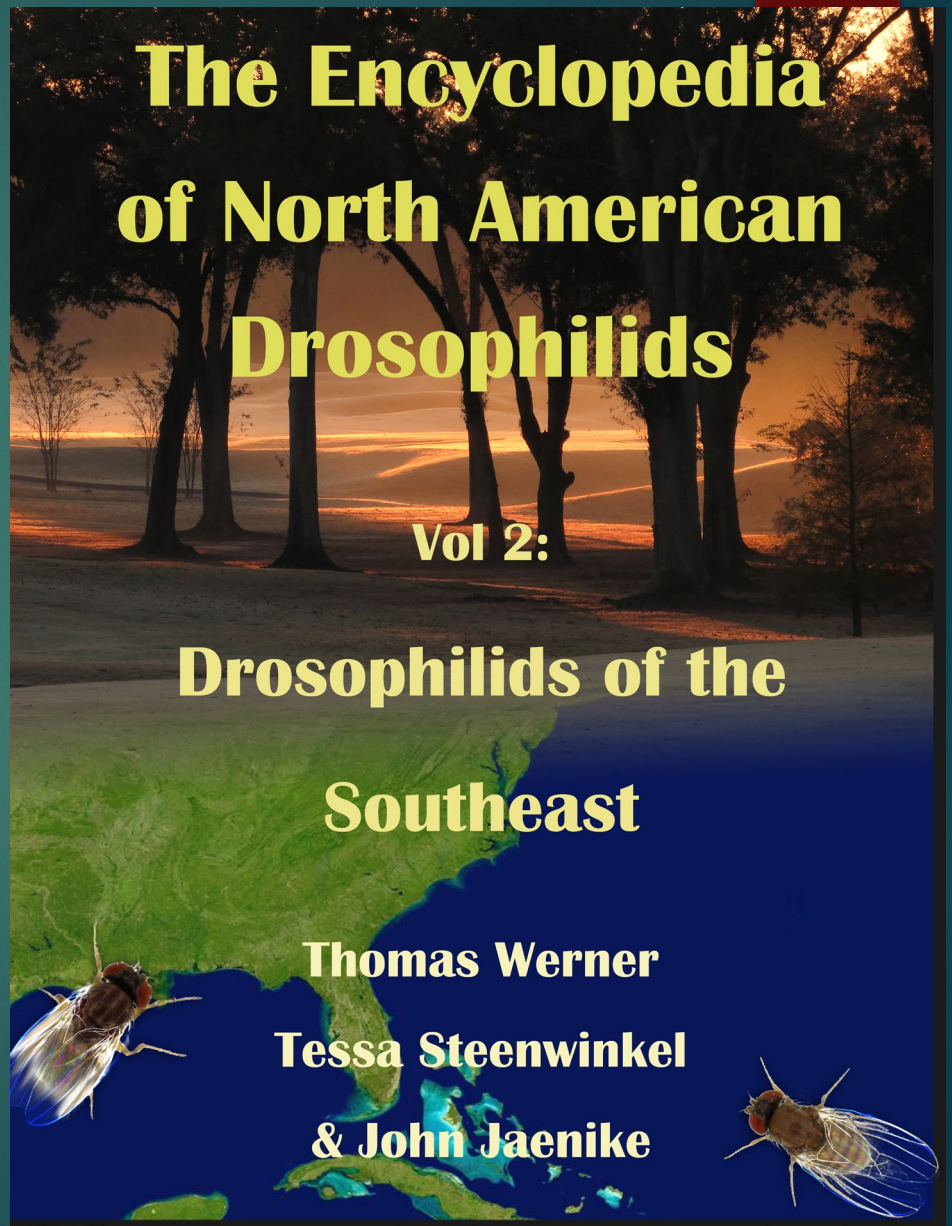
Fruit flies

Butterflies and moths



4) Fruit fly field guide series for the US





5) Undergraduate-initiated research projects

- The effect of nutrition on longevity, fecundity and fertility in *Drosophila melanogaster* (Tessa Steenwinkel, winner of the Barry Goldwater fellowship, Provost Award for Scholarship, and several more)

- The effect of the gut microbiome on obesity, fertility, and longevity in *Drosophila melanogaster* (Morgan Smith, winner of the Songer Research Award and Undergraduate Research Internship)

Acknowledgments

- NIH
- NSF
- Huron Mountain Wildlife Foundation
- Department Chair Dr. Shekhar Joshi
- 100+ research undergraduates, particularly Tessa Steenwinkel
- Graduate students Chelsea Mitchell, Komal Raja, Mujeeb Shittu, Prajakta Kokate, William Dion, and Tessa Steenwinkel
- My first collected butterfly in 1981

D. MASU Award Presentation
Bob Murphy, Chief Policy Officer

E. Undergraduate Student Government
Zack Olson, President

USG BOARD OF TRUSTEES UPDATE

Zachary Olson, USG President
October 8, 2021

Michigan Technological University

CAMPUS PRESENCE

- **200 votes** on our new constitution at **K-Day**
- **Roughly 18 hours** spent volunteering during **Move-In Weekend**
- Resumed in-person meetings at **7-9 PM on Wednesdays in the Alumni Lounge (MUB 107)**

ELECTIONS/APPOINTMENTS

The USG started the process to elect and appoint representatives for various groups of students on campus. These are:

ELECTIONS

- First Year Representative
- Second Year Representative
- College of Engineering Representative
- Residential Representative

APPOINTMENTS

- Third Year Representative
- Fourth Year Representative
- College of Engineering
- At-Large Representative

COMMITTEES

- **Political Affairs:** National Voter Registration Day, September 28
- **Events:** Preparing the Thanksgiving Break Bus and helping manage the Student Organization Barn
- **Student Affairs:** Weighed the merits of the University Senate Proposal 222 and other options for student evaluation comments
- **Public Relations:** Implemented a blog for long updates from leadership, implementing a system for students to submit issues/comments to USG

Thank You! Questions or Comments?

Zachary Olson

Undergraduate Student Government, President

Official: usg-president@mtu.edu
Personal: zaolson@mtu.edu

(989) 439-6884

F. Graduate Student Government
Nathan Ford, President

G. University Senate
Samuel Sweitz, President

University Senate Update

Sam Sweitz, Senate President

Updates on Pending Business from Spring 2021

- Proposal 84-21: Evaluation Procedures for Department Chairs

  - Reintroduce under new committee membership

- Proposal 85-21: Proposal to Create a University Teaching-Facilitators Group for Support of Teaching Effectiveness to Resolve Student Concerns

  - Withdrawn in lieu of Proposal 2-22

Updates on Ballot Initiatives on tenure process changes:

- Proposal 79-21: Update Faculty Handbook Section 5.1.2. Exceptional Extension of the Probationary Period

- Proposal 55-21: Proposed Addition of Section 2.6 Role of Diversity, Equity, and Inclusion to the Faculty Handbook

- Retroactive vote on Section 2.5 Role of Innovation and Commercialization of the Faculty Handbook

Early Agenda Items for Fall

- Proposal 1-22 University Senate Handbook
- Proposal 2-22 Revisions to Procedure 504.1.1 Teaching Effectiveness Evaluations
- DEIS Initiatives in Support of the Office of the Vice President for Diversity and Inclusion

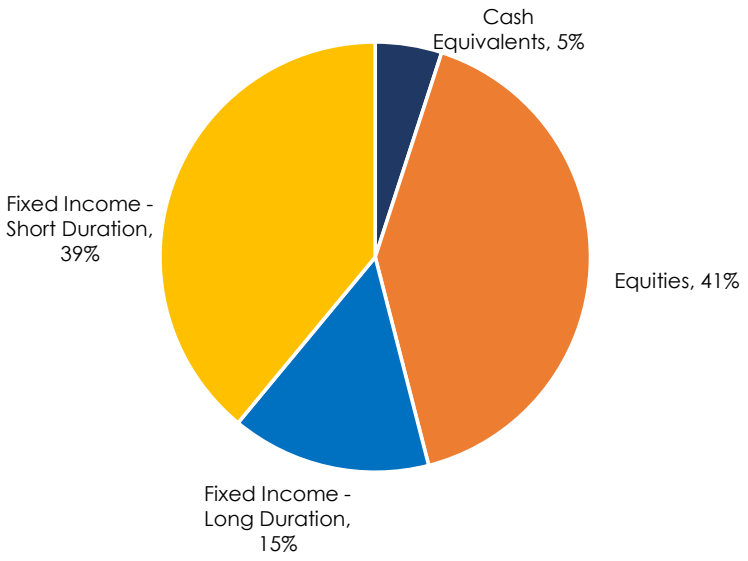
X. Informational Items

A. Analysis of Investments

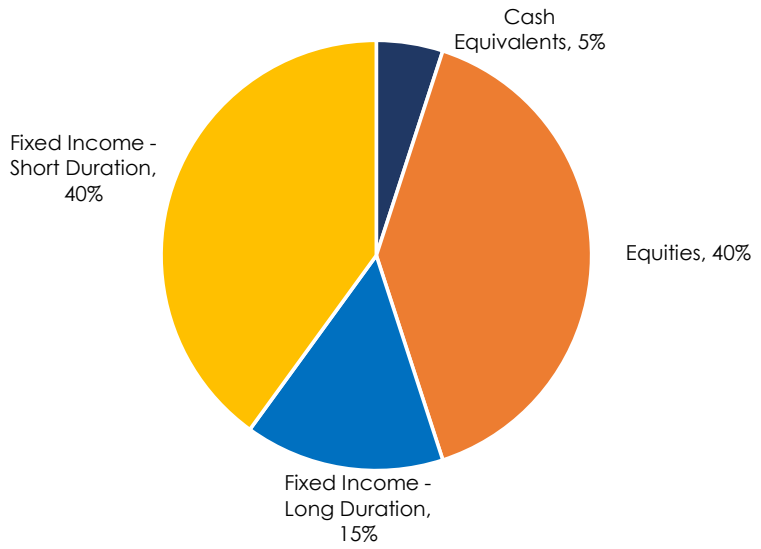
MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2021 THROUGH AUGUST 31, 2021

	Market Value 6/30/2021	Market Value 8/31/2021	Fiscal-Year Investment Return	Benchmark Return	Benchmark
Money Market Fund	$ 2,227,371	$ 2,240,936	0.00%	*0.01%*	*ICE BofA Merrill Lynch US T-Bill Index*
Equity Funds:					
Core Equity Fund	11,505,342	12,050,882	5.32%	*5.49%*	*S&P 500*
Commonfund Strategic Solutions Equity Fund	6,888,970	7,170,703	6.85%	*5.49%*	*S&P 500*
Total Equity Funds	18,394,312	19,221,585			
Fixed Income Funds:					
Intermediate Term Fund	8,896,448	9,040,994	0.16%	*0.16%*	*ICE BofA Merrill Lynch 1-3 Yr Treasury*
Commonfund Contingent Asset Portfolio	8,892,319	9,046,223	0.10%	*0.16%*	*ICE BofA Merrill Lynch 1-3 Yr Treasury*
High Quality Bond Fund	6,760,565	6,766,070	0.97%	*0.93%*	*Bloomberg Barclays US Aggregate Bond Index*
Total Fixed Income Funds	24,549,332	24,853,287			
Total	$ 45,171,015	$ 46,315,808	2.60%		

Current Asset Allocation



Target Asset Allocation



B. Research & Sponsored Programs

Funding Summary

	FY '21	FY '20
Sponsored Awards	$67,244,308	$67,205,314
CARES Act Emergency Funding	-	4,605,779
CRRSAA HEERF II Relief Funding	6,991,814	-
American Rescue Act-HEERF III Relief Funding	12,364,790	-
Grand Total	$86,600,912	$71,811,093

Note, due to the nature of the federal emergency and relief funding, the detailed reports in this package exclude them.

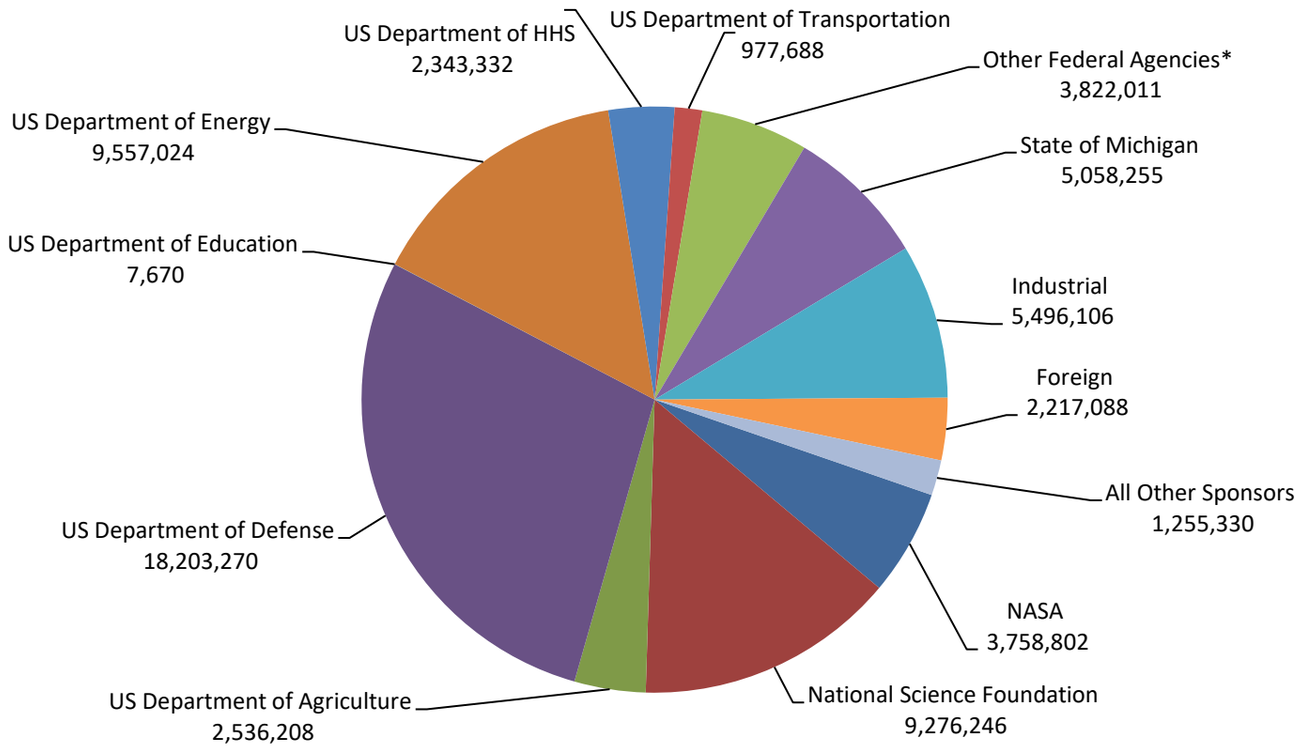
Sponsored Awards
Fiscal Year 2021
4th Quarter
Ended June 30, 2021

TOTAL: $67,244,308

Pre-Proposals Submitted

(excluded from Proposals Submitted figures below)

FYTD 2020: 45
FYTD 2021: 39



	Proposals Submitted		Awards Received		Awards Received ($)			
Sponsor	FY '21 as of 06/30	FY '20 as of 06/30	FY '21 as of 06/30	FY '20 as of 06/30	FY '21 as of 06/30	FY '20 as of 06/30	Variance $	Variance %
NASA	66	85	57	70	3,758,802	6,882,291	-3,123,489	-45.4%
National Science Foundation	149	133	51	52	9,276,246	8,612,051	664,195	7.7%
US Department of Agriculture	50	50	60	35	2,536,208	2,305,311	230,897	10.0%
US Department of Defense	109	113	107	97	18,203,270	14,922,599	3,280,671	22.0%
US Department of Education	2	3	1	3	7,670	58,614	-50,944	-86.9%
US Department of Energy	55	53	40	32	9,557,024	6,796,614	2,760,410	40.6%
US Department of HHS	70	54	12	19	2,343,332	5,868,781	-3,525,449	-60.1%
US Department of Transportation	11	14	8	13	977,688	2,542,750	-1,565,062	-61.5%
Other Federal Agencies*	68	54	42	48	3,822,011	3,321,443	500,568	15.1%
Federal Agency Total	580	559	378	369	50,482,251	51,310,454	(828,203)	-1.6%
State of Michigan	51	40	38	29	5,058,255	3,761,931	1,296,324	34.5%
Industrial	172	175	154	150	5,496,106	5,933,873	-437,767	-7.4%
Foreign	23	22	18	12	2,217,088	1,501,603	715,485	47.6%
All Other Sponsors	90	88	45	47	1,255,330	1,110,667	144,663	13.0%
Subtotal	916	884	633	607	64,509,030	63,618,528	890,502	1.4%
Gifts**	N/A	N/A	211	230	2,722,474	3,566,565	-844,091	-23.7%
Crowd Funding	N/A	N/A	10	15	12,804	20,221	-7,417	-36.7%
Grand Total	**916**	**884**	**854**	**852**	**67,244,308**	**67,205,314**	**$38,994**	0.1%

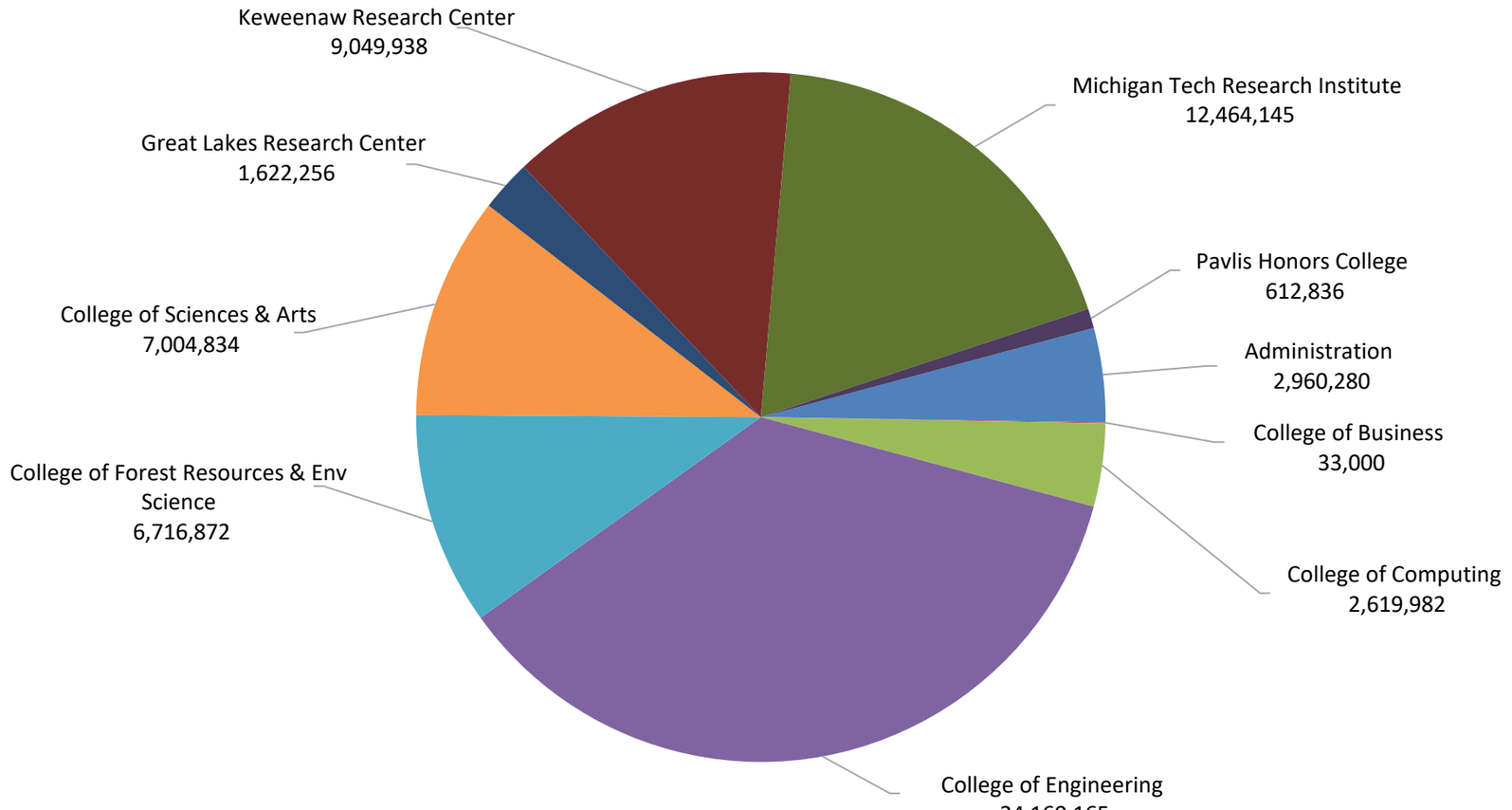
Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II [Covid Relief) or FY20 $4,605,779 CARES Act funding from US Department of Education

* US Dept of Commerce, US Environmental Protection Agency, US Dept of the Interior, National Endowments for the Arts & Humanities, US Dept of Labor, US Dept of State, US Dept of Homeland Security, US Dept of Justice, Office of the Director of National Intelligence, US Small Business Administration, US Dept of Treasury

**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.

Vice President for Research
Fiscal Year 2021
4th Quarter
Ended June 30, 2021

TOTAL: $67,244,308



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

Submitting Proposals since 07/01/2020
68.6%

On Active Projects as of 6/30/2021
63.1%

SPO & OIC Metrics[1]	Administration	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	Pavlis Honors College	Totals	Fiscal Comparison	Percent Change
Proposals Submitted	23	1	48	436	104	123	38	49	89	5	916	884	3.6%
Awards Received	95	5	25	329	116	77	24	47	88	48	854	852	0.2%
Federal	2,091	-	1,428,523	13,581,935	4,328,797	5,433,275	749,801	6,653,572	4,487,076	340,141	**37,005,211**	36,701,110	0.8%
Federal Pass-Through	892,060	-	962,995	3,757,339	260,028	1,017,283	606,729	144,898	5,818,208	17,500	**13,477,040**	14,609,344	-7.8%
Foreign	-	-	-	181,541	45,000	56,351	-	27,990	1,906,206	-	**2,217,088**	1,501,603	47.6%
Gifts	1,188,290	33,000	160,000	759,575	276,123	45,886	-	7,000	-	252,600	**2,722,474**	3,566,565	-23.7%
Crowd Funding	-	-	1,509	694	231	4,075	3,700	-	-	2,595	**12,804**	20,221	-36.7%
Industry	30,000	-	26,955	2,068,932	1,060,667	-	83,187	2,211,478	14,887	-	**5,496,106**	5,933,873	-7.4%
Other	22,898	-	40,000	362,897	217,637	368,152	25,958	5,000	212,788	-	**1,255,330**	1,110,667	13.0%
State of MI	824,941	-	-	3,447,252	528,389	79,812	152,881	-	24,980	-	**5,058,255**	3,761,931	34.5%
Total $ by Division	**2,960,280**	**33,000**	**2,619,982**	**24,160,165**	**6,716,872**	**7,004,834**	**1,622,256**	**9,049,938**	**12,464,145**	**612,836**	**67,244,308**	67,205,314	0.1%
Fiscal Comparison	4,413,596	56,053	2,365,660	24,877,821	4,364,869	10,665,677	1,247,369	8,210,315	10,723,730	280,224	67,205,314		
Percent Change	-32.9%	-41.1%	10.8%	-2.9%	53.9%	-34.3%	30.1%	10.2%	16.2%	118.7%	0.1%		
Disclosures Received[2]	8.70%	-	6.52%	58.70%	-	17.39%	-	4.35%	4.34%	-	**23**	26	-11.5%
Nondisclosure Agreements	10	-	4	44	-	1	-	9	14	2	**84**	98	-14.3%
Patents Filed or Issued[2]	-	-	-	78.15%	-	19.23%	-	2.62%	-	-	**26**	26	0.0%
License Agreements	6	-	-	4	-	2	-	1	-	-	**13**	17	-23.5%
Gross Royalties[2]	26.47%	-	-	-	-	20.59%	-	2.94%	50.00%	-	**121,965**	221,391	-44.9%

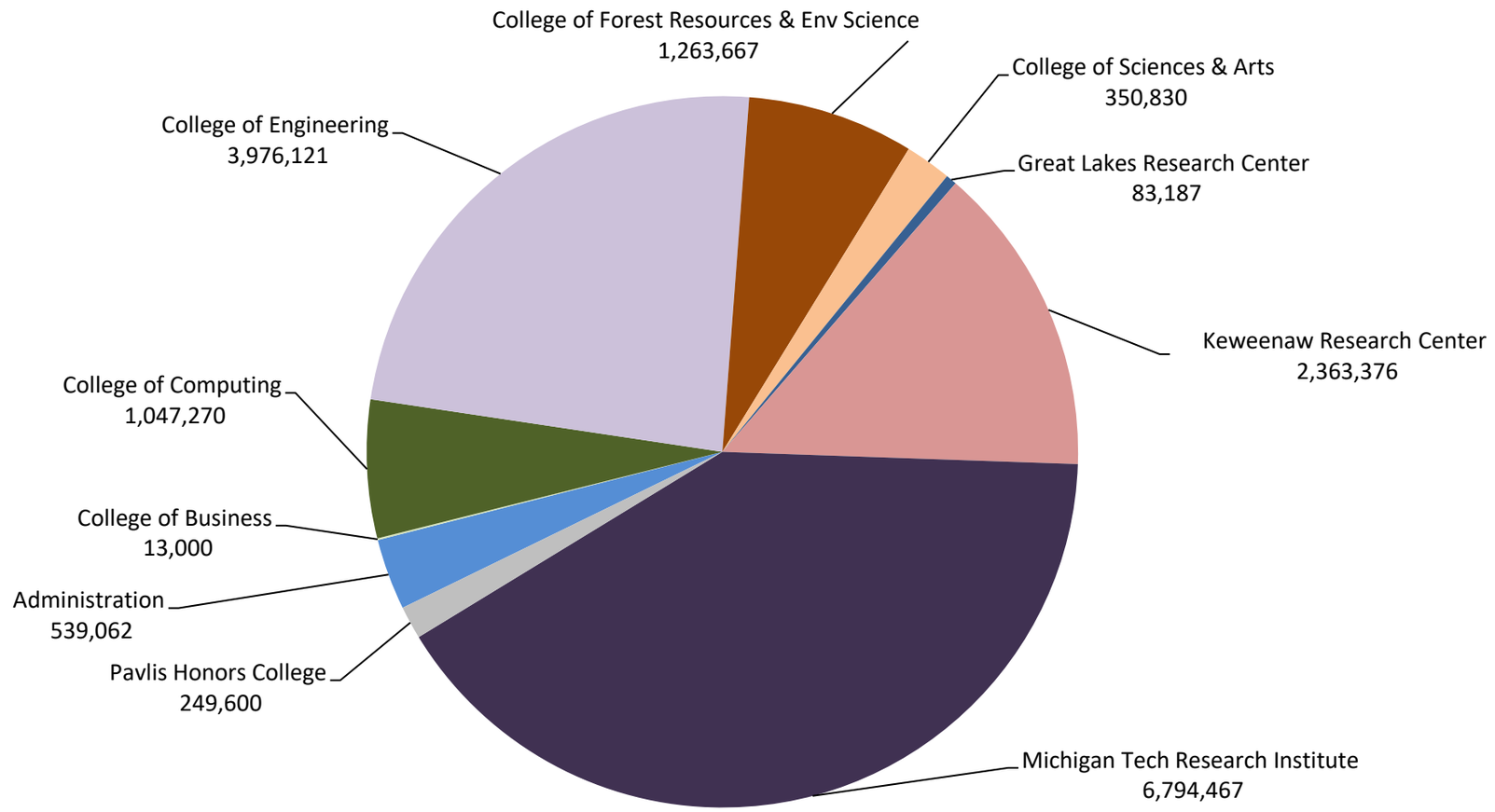
Federal award dollars do NOT include FY21 $19,356,604 CRRSAA HEERF II (Covid Relief) or FY21 $4,605,779 CARES Act funding from US Department of Education

[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).

Sponsored Awards
-Industry-
COMBINED
Fiscal Year 2021
4th Quarter
Ended June 30, 2021

TOTAL: $16,680,580



Sponsored Awards & Gifts	Administration	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	Pavlis Honors College	Totals	Fiscal Comparison	Percent Change
Automotive	78,100	-	150,000	858,203	-	4,500	-	2,099,307	-	129,100	**3,319,210**	4,743,821	-30.0%
Business & Economics	8,000	7,000	-	1,000	-	-	-	-	-	1,500	**17,500**	35,083	-50.1%
Chemical	8,000	-	-	132,953	230,115	-	-	-	-	-	**371,068**	681,461	-45.5%
Civil	20,350	-	-	311,162	-	-	-	3,150	265,000	500	**600,162**	262,742	128.4%
Consumer Products	108,800	-	-	113,605	787,368	-	-	3,385	-	2,500	**1,015,658**	909,097	11.7%
Defense & Space	-	-	860,315	1,099,289	-	-	-	180,258	4,143,601	10,000	**6,293,463**	2,897,835	117.2%
Energy	61,500	5,000	-	544,244	-	-	83,187	-	1,906,206	48,000	**2,648,137**	547,755	383.5%
Environmental	2,241	-	-	27,253	-	41,269	-	-	24,980	-	**95,743**	27,158	252.5%
Health	-	-	-	137,623	-	500	-	47,966	-	5,500	**191,589**	322,367	-40.6%
Industrial Engineering	55,000	-	26,955	140,443	-	-	-	17,500	293,160	-	**533,058**	266,367	100.1%
IT Services	2,097	-	1,000	111,000	-	63,381	-	-	-	1,000	**178,478**	298,980	-40.3%
Mining & Metals	24,500	-	-	423,296	73,184	-	-	10,750	-	34,000	**565,730**	260,410	117.2%
Other	139,474	1,000	3,000	50,925	173,000	-	-	-	36,520	2,000	**405,919**	378,016	7.4%
Technology	31,000	-	6,000	25,125	-	241,180	-	1,060	125,000	15,500	**444,865**	1,314,345	-66.2%
Total $ by Division	**539,062**	**13,000**	**1,047,270**	**3,976,121**	**1,263,667**	**350,830**	**83,187**	**2,363,376**	**6,794,467**	**249,600**	**16,680,580**	12,945,437	28.9%
Fiscal Comparison	1,307,089	35,400	302,847	4,853,287	759,794	325,963	327,631	2,527,557	2,250,401	255,468	12,945,437		
Percent Change	-58.8%	-63.3%	245.8%	-18.1%	66.3%	7.6%	N/A	-6.5%	201.9%	-2.3%	28.9%		

Michigan Technological University
Total PRELIMINARY Research Expenditures by College/School/Division
Fiscal Year 2021 & 2020
As of June 30, 2021 Period 14 and June 30, 2020 Period 14

College/School/Division	Preliminary FY2021	Preliminary FY2020	Variance	%
Administration*	820,733	2,346,630	(1,525,897)	-65.0%
College of Business	1,522,209	1,551,760	(29,551)	-1.9%
College of Computing	4,021,921	2,925,595	1,096,326	37.5%
College of Engineering	31,614,848	29,761,464	1,853,384	6.2%
College of Forest Resources & Environmental Science	6,084,790	5,070,043	1,014,747	20.0%
College of Science & Arts	14,267,247	14,718,484	(451,237)	-3.1%
Great Lakes Research Center**	1,480,740	1,016,771	463,969	45.6%
Pavlis Honors College	597,330	515,516	81,814	15.9%
Keweenaw Research Center (KRC)	10,090,175	9,543,097	547,078	5.7%
Michigan Tech Research Institute (MTRI)	11,215,400	10,478,063	737,337	7.0%
School of Technology	N/A	N/A	N/A	N/A
Total	**81,715,393**	**77,927,423**	**3,787,970**	**4.9%**

*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
Michigan Tech Board of Trustees
October 8, 2021

2021-2022 Goals and Initiatives to be achieved in collaboration with administrative and academic leadership and the Michigan Tech Fund Board of Directors.

- Campaign prep (completion of the feasibility study, following through on recommendations)
- Review the fee structure to be sure it's in accordance with our peers and appropriate for a campaign
- Review of the MTF bylaws
- Ensure Donor integrity and intention in every aspect of our business
- Evaluate private assets as an investment vehicle for the endowment
- Revitalize alumni engagement with services and programs virtually and across the nation
- Rebrand and refocus annual giving toward engaging more first time donors
- Implement Customer Relationship Management software
- Engage alumni, principal and major gift donors and corporate/foundation partners in a virtual and hybrid environment
- Launch Alumni DEIS Advisory Board for Fall and establish alumni board liaison

Highlights

- Held a successful alumni reunion with over 317 people in attendance
- Reviewing several well-qualified applicants for the AVP of Alumni Engagement that was posted September 8
- Hired Principal Giving Associate assisting with campaign preparation and launch
- Traverse City Alumni event in conjunction with Traverse Connect ribbon cutting
- Hosting in the hockey suites has resumed

Fundraising totals as of August 31, 2021

$2,148,000 in planned gifts
$803,202 in realized planned gifts
$766,940 in major outright gifts and pledges
$261,344 in annual gifts under $10,000
$381,156 in corporate support
$127,417 in foundation gifts
15 illustrations, proposals, and gift agreements were provided for donors
18 executed gift agreements

Principal Giving

FY 2022 Pending Gifts

- Working with a former MTF BoD member and spouse in conjunction with the Dean of the College of Business to endow their current annual scholarship fund with $1 million. $500k was received and the remaining will be pledged over the next 5 years. Their current $1 million estate gift will also be increased by approximately $800K. Halonen and Johnson met with the donors in August and will finalize the agreement in the first or second quarter of FY 2022. This will be a campaign leadership gift.

- Working with a former MTF BoD member and spouse in conjunction with the Chair of Chemical Engineering to increase their current endowed professorship in Chemical Engineering into an endowed chair at the $2 million level. A verbal commitment was received and we will work on the details and closure in the second quarter of FY 2022.
- Working with the widow of a former MTF BoD in conjunction with the Dean of the College of Business on an approximate $1 million estate gift for the college designated for scholarships. Halonen and Johnson met with the donor in August 2022. As the BoD member recently passed, this gift commitment may be pushed into FY 2023.
- Working with a GMES alum in conjunction with the department chair on an increase of his $1million Planned gift to $2million+. Halonen and Smirnov to visit in the fall of 2021.

FY 2022 and Later Expected Gifts

- Working to finalize an $8+ million estate gift in conjunction with the Dean of College of Sciences and Arts. This will be for scholarships for the College of Sciences and Arts, with an emphasis on Physics, Chemistry, and Mathematics. Halonen and Koubek last met with the donor in January 2020. Due to COVID-19, the finalization of this gift has been delayed by the 4th quarter of FY 2022.
- In conjunction with the chair of Civil and Environmental Engineering, we are working with a donor on a $2 million estate gift with annual funding at the endowment payout level. This would be for an endowed chair or an endowed professorship with a $1 million scholarship endowment.
- Working with an alumni and spouse in conjunction with the chair of Chemical Engineering, on a $1+ million planned gift for the Chemical Engineering department. Halonen to meet with them on campus in April 2021. Halonen to meet with them in October or November 2021.
- In conjunction with the chair of Mechanical Engineering-Engineering Mechanics we are working on a $1 million estate gift from an alumnus and automotive executive. Halonen and Roberts met with him in May 2021. While this gift was to close in FY 2021, that has been pushed out for future years.
- Working with an alumni (non degree) and spouse in conjunction with the Dean of the College of Business and the Office of Gift Planning on a multi level planned gift which, along with immediate outright giving, would provide charitable life income arrangements for children and grandchildren with eventual proceeds to the College of Business. Halonen and Roberts met with them in March 2021. Expected to close in FY 2022.

Staffing

- As of 9/14/21, an offer was made to hire a Principal Giving Associate to focus on Advancement, Campaign, and Presidential Events. This position will start in October of 2021.

Regional Areas of Focus

- Silicon Valley - FAll and Spring FY 2022
- SW Florida - Winter/Spring FY 2022

Advancement and Gift Planning:

Thompson Foundation (scholarship program visit)

Hosting alumni and donors at Sherman Field at Kearly Stadium enjoying the Huskies Football home games.

Launching fundraising initiative for 100 years of Men's Basketball to be celebrated in 2022.

All fundraisers are on the road again visiting with alumni and friends.

Annual Giving:

- Overall Annual Giving –
    - As of August 31, 2021 – $283,057

- Annual Fund (unrestricted) –
    - As of August 31, 2021 – $100,509

- Campus Campaign
    - As of August 31, 2021 – 54 employees have donated $25,258 to the Campus Campaign. That is a participation rate of 4%.

Corporate and Foundation Relations (CFR):

- Collaboration with Civil and Environmental Engineering and CoE Advancement to expand scholarships recruiting pipeline program.
- Revitalizing our industry engagement focused on autonomous mobility, computing and entrepreneurial endeavours.

Market Development:

- Researched, produced, and provided data from 30 comparable and peer public institutions' endowment management fees
- Provided campaign capacity analyses that used three standard models (recency/frequency, lead donor cornerstone gifts, and forecast from historical data)
- Conducted a comprehensive data-hygiene sweep of donors with prior "recommended" status codes. This will help improve efficiencies going forward as well as providing better information for CRM conversion
- Research to identify well-connected, well-regarded alumni leaders to participate as presenters in our Fall "Innovators in Industry" forums for students

Advancement Services

- Continuing to assess the Ellucian CRM platform with additional demonstrations of the features to support communications, events, reporting and data transfers.
- Supporting the data requests for the Campaign Readiness Study.
- Supporting communications to alumni and friends for academic departments.

Donor Relations and Alumni Engagement

- Although Reunion 2021 events were limited to one day, we had 317 registered guests attending. 88% of post reunion survey respondents said that the event provided a good sense of Michigan Tech as it is today and 81% stated that it strengthened their connection to Michigan Tech.

- Inducted 8 new members of the Presidential Council of Alumnae (PCA) on Sep 17, 2021
    - Molli Andor ‘15 Mechanical Engineering
    - Angela Hammond ‘00, ‘02 Geological Engineering
    - Amberlee Haselhuhn ‘11, ‘16 Biomedical Engineering and Material Science Engineering
    - Jaclyn Johnson ‘08, ‘11 Mechanical Engineering
    - Leslie Kilgore ‘95 Mechanical Engineering
    - Kim Lobdell ‘79 Civil Engineering
    - Joyce Caylor Lyth ‘ 72 (posthumously) Business Administration
    - Jennifer Trice ‘87, ‘89 Mechanical Engineering

- The Alumni Board of Directors met on campus Sept 30 & October 1st, 2021.

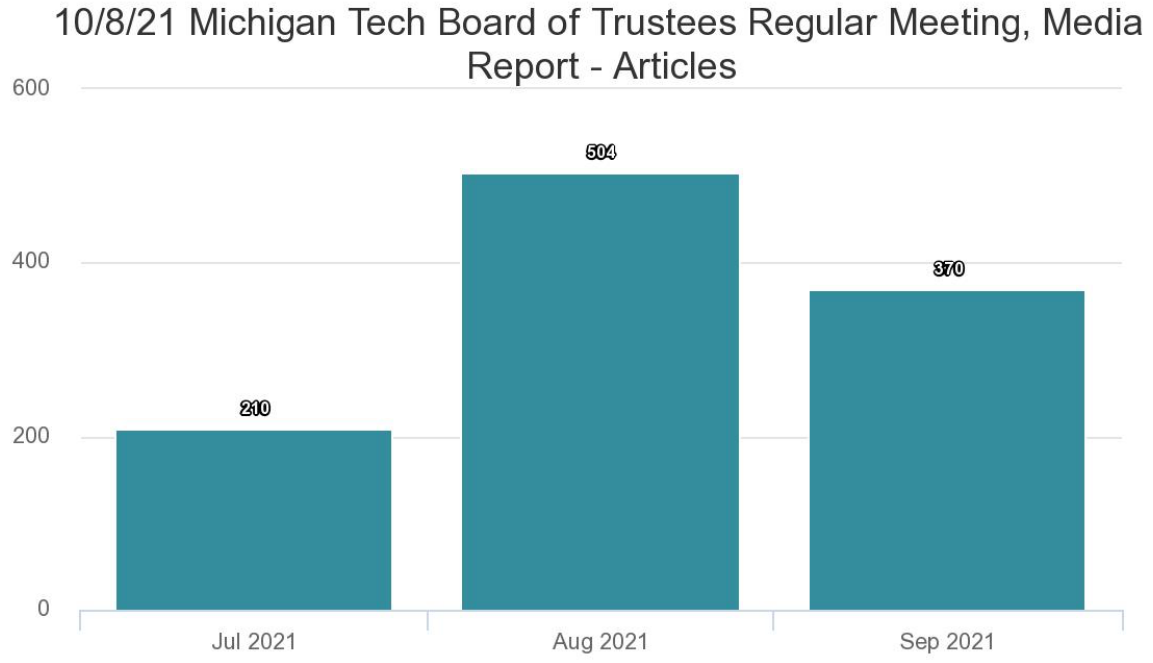
D. Media Coverage

Media Report: July 17 to Sept. 17, 2021
Michigan Technological University
Regular Meeting of the Board of Trustees
Oct. 8, 2021

Overview

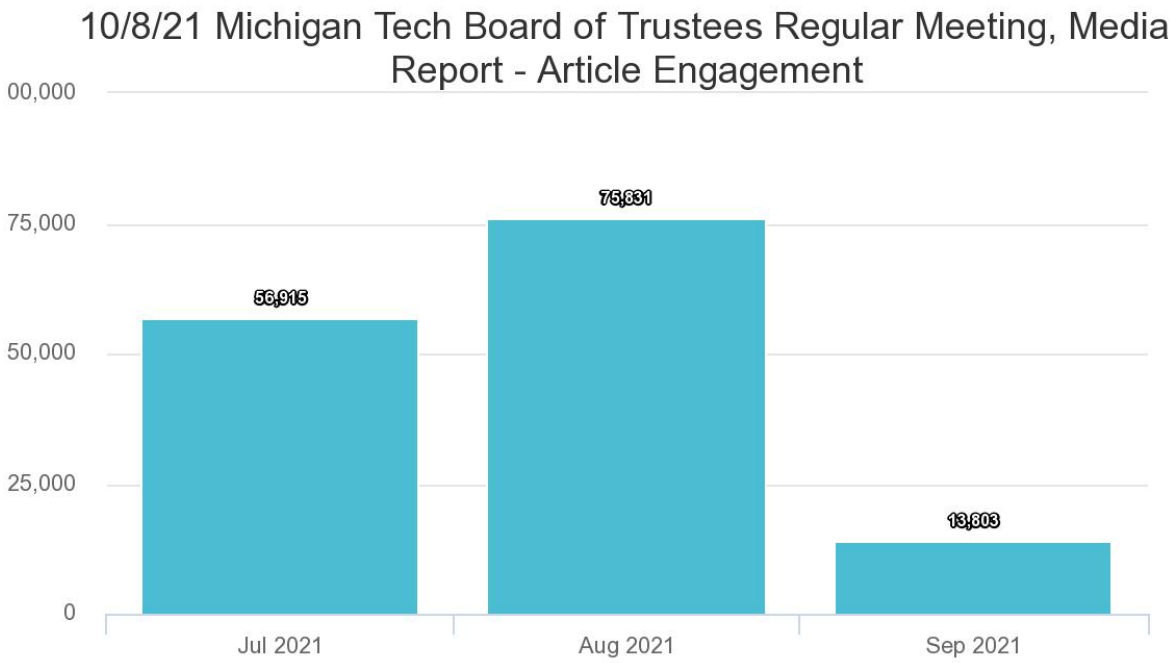
Articles	1,084
Total engagement	~ 146.55K
Average engagement	135
Journalist shares	679
Journalist reach	~ 34M
Average unique visitors per month (UVM)	~ 3.69M
Total UVM	~ 4B

Between July 17 and Sept. 17, 2021, a total of 1,084 online articles mentioned Michigan Technological University:

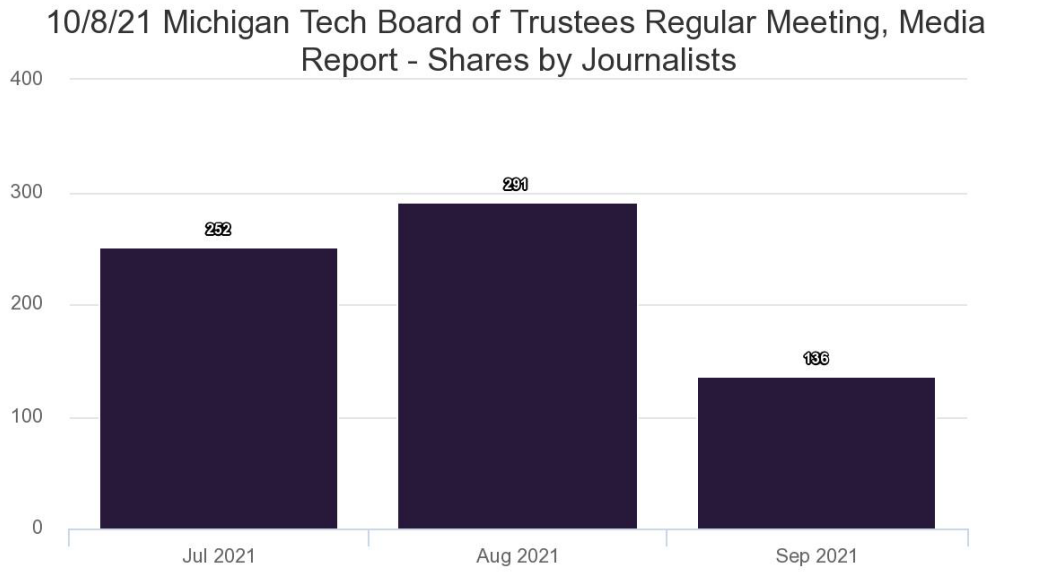


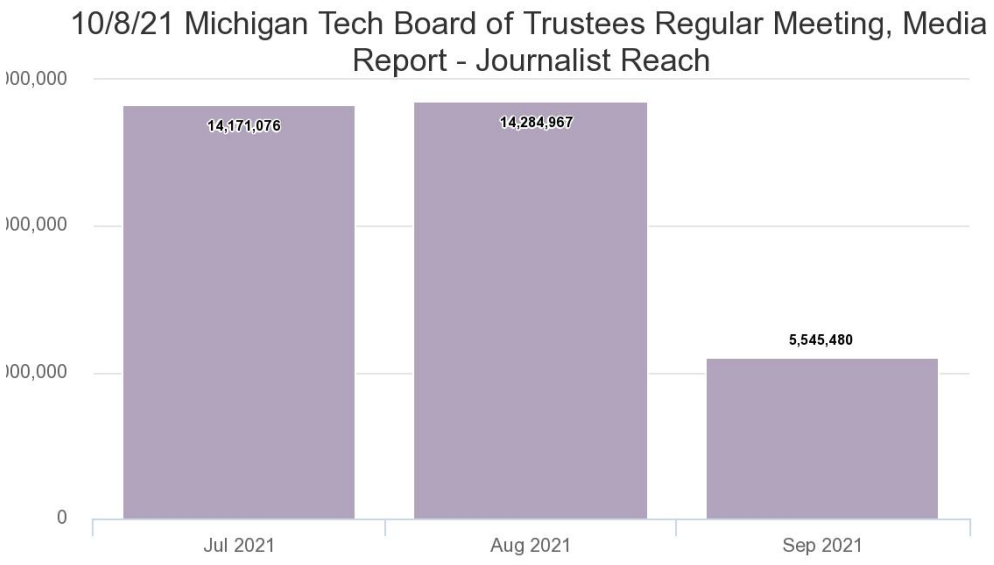
MUCK RACK

Those 1,084 articles were shared, commented on, or liked social media more than 146,550 times, for an average engagement of 135 shares, comments, or likes per article:



Journalists shared the articles on Twitter 679 times, resulting in a reach of roughly 34 million people:





News Highlights:

Research News

Nancy French (MTRI) was quoted in a New York Times article on how wildfire smoke spread across the US.

- https://www.nytimes.com/interactive/2021/07/21/climate/wildfire-smoke-map.html

Michigan Tech's contributions to a catch-and-release GPS collar project with Isle Royale wolves were highlighted in news reports by MLive and WJMN.

- https://www.mlive.com/news/2021/08/isle-royale-pack-leader-young-wolves-among-those-with-new-gps-collars.html
- https://www.upmatters.com/news/local-news/copper-country/gps-collars-inform-isle-royale-wolf-restoration-and-monitoring-efforts/

A presentation by MTU researchers to City of Negaunee residents on a feasibility study to repurpose the Mather B Mine was covered by WLUC TV6 and ABC 10 UP. The feasibility study focused on the possibility of turning the mine into an underground pump-hydraulic energy storage facility.

- https://www.uppermichiganssource.com/2021/08/22/mtu-group-recieves-feedback-research-looking-repurpose-underground-mines/

Steve Techtmann's research to turn plastic into edible protein was highlighted in a WJMN feature story. The story was picked up by other regional outlets, including WCIA in Champaign, Illinois, and WLAX in La Crosse, Wisconsin.

- https://www.upmatters.com/news/local-news/copper-country/mtu-professors-research-turns-plastic-into-edible-protein-to-fight-food-insecurity-eliminate-waste/

Simon Carn (GMES) was the lead writer on a feature story for Eos titled, “Anticipating Climate Impacts of Major Volcanic Eruptions.”

- https://eos.org/science-updates/anticipating-climate-impacts-of-major-volcanic-eruptions

Guy Meadows (GLRC) was interviewed for an MLive story on industrial plastic pellets called nurdles that are littering Great Lakes beaches.

- https://www.mlive.com/public-interest/2021/09/industrial-plastic-pellets-called-nurdles-are-littering-great-lakes-beaches.html

Nathan Manser (GMES) was quoted in a Detroit News feature story on how the Upper Peninsula managed risk related to mining materials for clean cars.

- https://www.detroitnews.com/in-depth/business/autos/2021/09/16/clean-cars-demand-new-mineral-mining-how-michigans-u-p-balanced-risk/8150411002/

General News

Michigan Tech’s enrollment trends for the 2021-22 academic year were the subject of in-depth reports from WLUC TV6 and the Daily Mining Gazette.

- https://www.uppermichiganssource.com/2021/09/03/mtu-announces-2021-enrollment-trends/
- https://www.mininggazette.com/news/2021/09/packing-them-in-tech-sees-biggest-freshman-class-in-nearly-40-years/

The expected boost that Michigan Tech’s and Northern Michigan University’s incoming first-year classes will bring to the UP economy was the subject of a report on WLUC TV6.

- https://www.uppermichiganssource.com/2021/09/13/increase-first-year-students-nmu-mtu-expected-help-up-economy/

In an article on virtual learning, the Detroit News highlighted the University’s hiring of David Lawrence as the inaugural vice president for online and continuing education.

- https://www.detroitnews.com/story/news/local/michigan/2021/09/04/michigan-universities-virtual-learning-in-person-classes/8241546002/

A three-part series on Michigan Tech’s move-in weekend was published by the Daily Mining Gazette. The stories included a report on the University’s efforts to ensure a safe and efficient move-in process in the midst of ongoing road construction, a feature story on students moving into the residence halls, and an interview with Dean of Students Wallace Southerland III.

Houghton County’s population rise was credited to Michigan Tech’s student population in a WNEM Detroit News story, which cited a similar story that ran in the Daily Mining Gazette. Houghton County was the only county in the Upper Peninsula to see a population increase in the 2020 United States census.

- https://www.wnem.com/news/houghton-in-up-credits-college-students-for-population-rise/article_2e559c1b-a173-55bd-8288-c9f1afa0b22f.html

Incoming Michigan Tech student Alireza Asadi was interviewed for a Chronicle of Higher Education article titled, “A Special Kind of Limbo: Iranian Students’ Troubles Getting to the U.S. Threaten STEM Pipeline.”

- https://www.chronicle.com/article/a-special-kind-of-limbo-iranian-students-troubles-getting-to-the-u-s-threaten-stem-pipeline?cid=gen_sign_in

The winning bid submitted by Michigan Tech alumni for a former US Air Force radar station in Eagle Harbor Township, known as Mount Horace Greeley, was covered by the Associated Press. The group intends to turn the site, which operated as a radar station during the Cold War, into a tourist destination.

- https://apnews.com/article/lifestyle-technology-travel-cold-war-efac3ebe890165c89806414b277792fa

E. Employee Safety Statistics

Michigan Technological University 1885

EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE

Jan 1 - August 31, 2020/2021

	Category	Years	Employee Classification							
			AFSCME	Faculty	Non-Exempt	POA	Professional	Temporary	UAW	Total
Number of Recordable Injuries	Injury Only w/Medical - No Lost Time	2020	4	0	0	0	1	0	1	**6**
		2021	1	0	0	0	3	0	0	**4**
	Lost Time Cases	2020	5	0	0	0	2	0	0	**7**
		2021	4	0	0	0	2	0	0	**6**
	Restricted Work Cases	2020	2	0	0	0	0	0	0	**2**
		2021	1	0	0	0	0	0	0	**1**
	Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)	2020	**11**	**0**	**0**	**0**	**3**	**0**	**1**	**15**
		2021	**6**	**0**	**0**	**0**	**5**	**0**	**0**	**11**
Number of Days	Injury Lost Time [3]	2020	60	0	0	0	64	0	0	**124**
		2021	36	0	0	0	12	0	0	**48**
	Restricted Work Days [3]	2020	273	0	0	0	0	0	0	**273**
		2021	30	0	0	0	0	0	0	**30**
Hours Worked	Total Work Hours	2020	138,753	475,672	79,783	11,858	765,151	31,537	122,157	**1,624,911**
		2021	149,234	447,893	63,498	10,856	712,788	48,289	105,425	**1,537,983**
	Percentage of Work Hours	2020	**8.5%**	**29.3%**	**4.9%**	**0.7%**	**47.1%**	**1.9%**	**7.5%**	**100.0%**
		2021	**9.7%**	**29.1%**	**4.1%**	**0.7%**	**46.3%**	**3.1%**	**6.9%**	**100.0%**
Rates	Lost Time Case Rate [1]	2020	**7.2**	**0.0**	**0.0**	**0.0**	**0.5**	**0.0**	**0.0**	**0.9**
		2021	**5.4**	**0.0**	**0.0**	**0.0**	**0.6**	**0.0**	**0.0**	**0.8**
	Frequency Rate [2] (Recordable)	2020	**15.9**	**0.0**	**0.0**	**0.0**	**0.8**	**0.0**	**1.6**	**1.8**
		2021	**8.0**	**0.0**	**0.0**	**0.0**	**1.4**	**0.0**	**0.0**	**1.4**

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 University.

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

F. Disposal of Surplus property

Michigan Technological University
Surplus Property Sales
Jul 1, 2021 - Aug 31, 2021

Date	Description	Amount
	No capital dispositions to report	$ -

XI. Other Business

XII. Date for Next Formal Meeting: December 17, 2021

XIII. Adjourn