



Formal Session of the Board of Trustees

August 4, 2022

9:00 a.m. – 11:00 a.m.

Location: MUB Ballroom B

Public Meeting

- I. Call to Order**
Jeffrey Littmann, Chair
- II. Roll Call**
Sarah Schulte, 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**
Andrea Dickson, Committee Chair
 - C. Leadership Committee**
Steve Tomaszewski, Committee Chair
- VII. Consent Agenda**
 - A. Approval of Minutes**
 - B. Degrees In Course**
 - C. Resignations, Retirements, and Off Payroll**

D. Fundraising Productivity Report

VIII. Action and Discussion Items

A. Employee Recognition

Rick Koubek, President

B. Appointment with Tenure

Andrew Storer, Interim Provost

B-1. Dr. Jin Woo Choi, Professor, Department of Electrical & Computer Engineering

B-2. Dr. Amy Clarke, Professor, Department of Materials Science & Engineering

B-3. Dr. Kester Clarke, Professor, Department of Materials Science & Engineering

B-4. Dr. Ye Duan, Professor, Department of Computer Science

C. Emeritus Rank

Andrew Storer, Interim Provost

1. Dr. Kathleen Feigl, Professor Emerita, Department of Mathematical Sciences

2. Dr. Jeffrey Burl, Professor Emeritus, Department of Electrical and Computer Engineering

3. Dr. Michael Roggemann, Professor Emeritus, Department of Electrical and Computer Engineering

4. Dr. Franz Tanner, Professor Emeritus, Department of Mathematical Sciences

D. Appointment of Treasurer

David Reed, Vice President for Research

E. Resolution for Sales of Surplus Property

David Reed, Vice President for Research

F. Revisions to Board Policies

David Reed, Vice President for Research

1. Revisions to Board Policy 11.04 - Banking Relationships

2. Revisions to Board Policy 11.07 - Policy Regarding Non-Mandatory Transfers
3. Revisions to Board Policy 11.09 - Policy Regarding Capital Additions
4. Revisions to Board Policy 11.10 - Cost Overruns/Special Maintenance Projects
5. Revisions to Board Policy 11.11 - Disposal of Surplus Property
6. Revisions to Board Policy 11.13 - Signing Contracts and Other Legal Documents

G. Agreement between Michigan Technological University & Michigan Tech Fund

David Reed, Vice President for Research

H. Presidential Compensation

Steve Tomaszewski, Leadership Committee Chair

IX. Reports

A. Faculty Presentation

Caryn Heldt, Director, Health Research Institute, James and Lorna Mack Endowed Chair of Cellular and Molecular Bioengineering, and Professor Chemical Engineering

B. Athletic Accomplishments

Suzanne Sanregret, Director of Athletics

C. Advancement Report

William Roberts, Vice President for Advancement & Alumni Engagement

D. Student Affairs Report

Wallace Southerland III, Dean of Students & Vice President for Student Affairs

E. Undergraduate Student Government

Cheyenne Scott, President

F. Graduate Student Government

Ranit Karmakar, President

G. University Senate

Steve Knudstrup, Vice-President

X. Informational Items

A. Proposed 2023 Dates

Formal Session of the Board of Trustees - Agenda

- B. Board of Trustees Policy 8.3 Board Waiver of Certain Fees**
- C. Analysis of Investments**
- D. Advancement & Alumni Relations**
- E. Media Coverage**
- F. Employee Safety Statistics**
- G. Disposal of Surplus Property**

XI. Other Business

XII. Date for Next Formal Meeting: October 7, 2022

XIII. Adjourn

VII. CONSENT AGENDA

These are routine matters that generally do not require discussion or debate. Any Board member can remove any consent item from the agenda by request. They will be considered as one resolution.

- A. Approval of Minutes
- B. Degrees in Course
- C. Resignations, Retirements, and Off Payroll
- D. Fundraising Productivity Report

VII-A. APPROVAL OF MINUTES

RECOMMENDATION: That the Board of Trustees approves the minutes of the formal session on April 29, 2022, as distributed to the Board.

VII-B. DEGREES IN COURSE

Included herein are candidate who have been recommended by their respective faculties and have been certified by the Registrar as having fulfilled all the requirements of their degrees as specified.

RECOMMENDATION: That the Board of Trustees approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.



MEMORANDUM

To: Dr. Richard J. Koubek
Office of the President

From: Theresa Jacques
Registrar's Office

Date: June 10, 2022

Subject: Candidates for Degrees – Conferral Term 202201

The attached list of candidates for degrees, beginning with Miranda Lynn McClellan and ending with Lirong Zhu 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

Michigan Technological University
Degrees Awarded for Conferral Term 202201
Michigan Technological University Registrar's Office June 10, 2022

[Associate of Arts in Humanities](#)

- Miranda Lynn McClellan - Cum Laude
- Noemi Nicole Heydrich

[Bachelor of Arts in English](#)

- Kate Lynn Woodford - Magna Cum Laude
- Maia Barnhart - Cum Laude
- Matthew Clay Luther
- Tucker Dean Nielsen

[Bachelor of Arts in Physics](#)

- Karavela A Zeiter

[Bachelor of Arts in Scientific and Technical Communication](#)

- Julianna Lee Humecke - Magna Cum Laude

[Bachelor of Arts in Sound Design](#)

- Artur Pilatovs - Cum Laude

[Bachelor of Arts in Theatre and Electronic Media Performance](#)

- Matthew David Koss - Cum Laude

[Bachelor of Science in Accounting](#)

- Chelsea Leigh Rheault - Magna Cum Laude
- Emma Susan Melchiori - Summa Cum Laude

[Bachelor of Science in Anthropology](#)

- Cally Jean Quayle - Cum Laude

[Bachelor of Science in Applied Ecology and Environmental Sciences](#)

- Brianna Michelle Wieferich - Cum Laude
- Emma Grace Coenen - Summa Cum Laude
- Mackenzie Rose Campbell - Magna Cum Laude
- Madelyn Rose Pugh - Cum Laude
- Maxwell Davis Wegner
- Rachel Marie Sperry - Cum Laude
- Sydney Ann Russell - Cum Laude

Bachelor of Science in Applied Geophysics

- Olivia Marie Salvaggio

Bachelor of Science in Applied Physics

- Sarah M Huffman
- Trevor Andrew Kieft - Summa Cum Laude
- Wyatt John Reller - Summa Cum Laude

Bachelor of Science in Biochemistry and Molecular Biology

- Akayla Weatherby - Magna Cum Laude
- Alexander John Richards - Cum Laude
- Alexis Marie Shatrau - Magna Cum Laude
- Alyssa Ann Abbas - Cum Laude
- Morgan Nicole Smith - Summa Cum Laude

Bachelor of Science in Bioinformatics

- Charlotte Clare Hildebrandt - Cum Laude
- Clara Mae Mosentine - Cum Laude

Bachelor of Science in Biological Sciences

- Aubrey Lynn Hockin - Summa Cum Laude
- Chloe Frances Looman - Magna Cum Laude
- Elizabeth Ann Harbin
- Larissa Joy Kilgore - Magna Cum Laude
- Megan R McGhee
- Miranda Lynn McClellan - Cum Laude
- Miranda M Gordon
- Tessa Valentine Mlinar - Cum Laude

Bachelor of Science in Biomedical Engineering

- Aaron B Forton
- Abigail Elizabeth Martin - Magna Cum Laude
- Abraham Raskind - Cum Laude
- Adam Weston Krutsch
- Alex Benson MacLean - Magna Cum Laude
- Alexandria Lynn Actis
- Alexia Lynn Nelson - Summa Cum Laude
- Ashley Rose Welsh - Cum Laude

- Austen Louis Fischer
- Aydin John Frost - Cum Laude
- Ayodotun Jesuferanmi Aluko - Summa Cum Laude
- Braxton Brooks Blackwell
- Breton Gayle Swenor
- Bryan Alexander Kison
- Caleigh Rose Dunn - Summa Cum Laude
- Cami Elise Daavettala
- Charles Bruce Ringey
- Drew Ivan Dickens
- Emily Nicole Downs
- Ethan Andrew Koval
- Hannah Joy Loughlin - Magna Cum Laude
- Jared R Martini - Summa Cum Laude
- Joshua M O'Laughlin - Cum Laude
- Kavi Dharmeshkumar Patel
- Kellan Sean Heikkila - Cum Laude
- Kyra Sue Pratley - Cum Laude
- Laura De Marchi - Magna Cum Laude
- Laura Claire Lyons - Magna Cum Laude
- Lydia Ann Ragel Wilson - Cum Laude
- Madison Nicole Jarnot - Cum Laude
- Maggie Rebecca Blevins - Cum Laude
- Matthew Xavier Delgado
- Maxwell J Pleyte - Magna Cum Laude
- Maxwell Jerome Woodward
- Megan Elizabeth Cotter
- Mitchell Lowell Connon - Magna Cum Laude
- Murphy Aran Mallow - Cum Laude
- Natalie Erika Wohlgemuth - Cum Laude
- Natalie Frances Reid - Cum Laude
- Nathaniel John Broetzman - Cum Laude
- Nicole Gallup

- Noah Chase Moser
- Paige Anne Dopp - Magna Cum Laude
- Paige L Vruwink - Cum Laude
- Paige Lakin Snyder
- Pavitra Manjari Attanayake - Summa Cum Laude
- Stephanie Marie Arndt
- Tara Anne Badour
- Tate Glenna Robison - Summa Cum Laude
- Taylor N Kunath - Cum Laude
- Wade H Schulz
- Zachary Leo Alesch - Summa Cum Laude

Bachelor of Science in Chemical Engineering

- Abigail Marie Pula
- Alexander James Dartt
- Alicia Kay Ball
- Alysha Lea Weigold - Magna Cum Laude
- Andrew Alan Taylor
- Andrew Delbert Giem - Summa Cum Laude
- Andrew Shawn Gryspeerd - Summa Cum Laude
- Anna Catherine Schmalzel - Cum Laude
- Anthony Messina - Summa Cum Laude
- Audrey Ellen Lyons
- Austin James Alexa - Magna Cum Laude
- Autumn Eve Cole
- Benjamin Michael Sosnowski - Cum Laude
- Blake Edward Farnham
- Boreas Victor Dimitruck
- Braden Aaron Reichl
- Brady Thomas Good - Summa Cum Laude
- Brandon Lee Earll
- Brittney Kay Duford - Cum Laude
- Cael B Hansen
- Cameron Robert Reid - Summa Cum Laude

- Claire Elise Decker
- Clayton Michael Lynn
- Colton Joseph Campbell - Magna Cum Laude
- Conner Lawrence Lipinski - Summa Cum Laude
- Corey Daniel Larsen - Summa Cum Laude
- Devon Michael Fawdry Price - Magna Cum Laude
- Dianna Marie Westrick - Cum Laude
- Elisha Samuel Coleman
- Emerald Elizabeth Mehler - Magna Cum Laude
- Emerson C Jannette
- Emily Elizabeth Seanor
- Emily Grace Mattson - Cum Laude
- Gabriel Hunter Frontuto
- Gabrielle Jordyn Feber - Summa Cum Laude
- Grant Arthur Daavettila
- Harrison Alexander Becht - Cum Laude
- Izabella Mazie Haberski
- J Parker Forrest Harstad
- Jacob Robert Witucki
- Jeremy Lien
- Jessica Paige Lyons - Magna Cum Laude
- Jessie McInnis - Cum Laude
- John Lawrence Ylitalo
- Jonathan Sullens - Cum Laude
- Joshua Michael Bilkey - Cum Laude
- Kaleb M Hatch
- Keegan Andrew Delforge - Summa Cum Laude
- Kira Jacklyn Millhausen
- Lauren A Konkol - Summa Cum Laude
- Lauren Elaine Spahn - Magna Cum Laude
- Leif Kristian Odegard
- Lindsey Gail Shearer - Cum Laude
- Lydia Elaine Bell - Cum Laude

- Michael Seth Johnson - Cum Laude
- Morgan Marie Ottman - Magna Cum Laude
- Morgan N Miller - Cum Laude
- Mykenzie Joelle Garza
- Nathan Charles Schaar - Magna Cum Laude
- Nathan Peter Liebhauser - Cum Laude
- Nathaniel Ryan Basler
- Noah Kinne
- Quinn Donald Miller - Summa Cum Laude
- Rachael Mae Haslam
- Rachel Marie Wegner
- Rebecca Laura Rivera
- Rebecca Morgan Williams
- Riley Elyse Andersen - Magna Cum Laude
- Ryan Jay Turner
- Sara Ann Gustafson - Magna Cum Laude
- Sarah Elizabeth Foyer - Summa Cum Laude
- Sarah Elizabeth Kempin - Magna Cum Laude
- Seth Richard Whiting
- Shane Warren Holcomb
- Slone Elizabeth Schultz - Summa Cum Laude
- Stephanie Marie Manthei
- Sylvia Mae Cassar
- Tanner Bryce Mahn - Magna Cum Laude
- Taylor Lewis Gremban - Cum Laude
- Taylor R Williams
- Thomas M Sapak - Magna Cum Laude
- Trisha Janell Herron - Cum Laude
- Zachary Arthur Olson - Cum Laude
- Zachary David Peil - Cum Laude
- Zachary Thomas Genter

[Bachelor of Science in Chemistry](#)

- Abigail Nicole Schwartz - Summa Cum Laude

- Andrew James Zampaloni - Summa Cum Laude
- Garven Michael Huntley - Magna Cum Laude
- Henry John Roell - Magna Cum Laude
- Kayleigh Noelle Wahr
- Lucas Bartley Prehoda - Cum Laude
- Michael Lawrence Byers
- Noah Henry Wolf

Bachelor of Science in Civil Engineering

- Allyson Rose Fenton - Magna Cum Laude
- Andrew J Vega - Cum Laude
- Benjamin Dennis Passolt - Magna Cum Laude
- Braden Clark Gunderson
- Brock Douglas Petrak
- Casey Alexander Wioskowski
- Casey B Abel
- Corey David Curtis - Cum Laude
- Deanna M Wozniak - Magna Cum Laude
- Elizabeth A Beckas
- Erik C Puskala - Summa Cum Laude
- Grant Thomas Freudenstein - Cum Laude
- Gregory Noel Porcaro - Magna Cum Laude
- Jacob Andrew Stewart - Magna Cum Laude
- Jacob Michael Johns
- Jacob Peter Tallon - Magna Cum Laude
- Jason Timothy Cinader - Cum Laude
- John Peter Paramski
- Katherine Elaine Cruickshank
- Lauren Elizabeth Cole
- Lindsey Korina Anderson - Magna Cum Laude
- Luciano B Cistaro
- Madalynn Marie Reitz - Summa Cum Laude
- Madison N Tata - Magna Cum Laude
- Marc Ryan Shean

- Margaret Mary Petersen
- Mary Elizabeth Ollis - Cum Laude
- Morgan Raley - Summa Cum Laude
- Nathan Christopher Willour
- Rachel Marie May
- Rachelle Krieger
- Sabrina L Nystrom - Cum Laude
- Samantha Rosemary Johnson - Summa Cum Laude
- Skylar Jean Callis - Summa Cum Laude
- Stanton Philip Schmitz - Cum Laude
- Stephanie C BoBo - Magna Cum Laude
- Stephen Michael McGregor
- Taylor Douglas Stewart - Magna Cum Laude
- Travis John Meyette
- Trent Jacob Bell
- Trevor Thomas Harrison
- Wade Steven Impola
- Zachariah David Bormet
- Zachary James Servinski

Bachelor of Science in Computer Engineering

- Andrew Edward Lee
- Austin Michael Trudeau
- Dustin Otto Duclos
- Eli Patrick Schmitter - Cum Laude
- Emma Clare Nanninga
- Evan Lawrence Smith
- Gaza Raymond Nagy - Magna Cum Laude
- Grant Matthew DeCleene - Magna Cum Laude
- Hampton Terrence Pettinger
- Isaac Harry Fortier
- Jacob Michael Zetty
- Jay Louis Schimmoller - Summa Cum Laude
- Jolo Cabel Vandenberg - Magna Cum Laude

- Kolean Hawks Boynton
- Mitchell Frederick Eckstrand
- Nicholas Albert Wylie
- Noah Cameron Hornfisher
- Randy Thomas Cote - Magna Cum Laude
- Ryan Lloyd Beatley
- Sean Michael Parker - Cum Laude
- Shane Conner O'Brien - Cum Laude
- Steven Clarence Ott - Summa Cum Laude
- Tyler E Chandler
- Tyler Paul Hansen

Bachelor of Science in Computer Network and System Administration

- Bradley Martin Gipson - Magna Cum Laude
- Brandon Arturo Lopez - Cum Laude
- Brandon Paul Cox
- Brennan Bernard O'Connor - Cum Laude
- Connor Jacob Rankin - Cum Laude
- Darren John Hutchinson
- Gary Eugene Tropp - Magna Cum Laude
- Jerod Austin Warren - Magna Cum Laude
- Joseph Robert Horne - Cum Laude
- Kyle Kincaid White
- Nathan Edward Walker
- Trent Anthony Luft - Magna Cum Laude

Bachelor of Science in Computer Science

- Aaron Andrew Kettelhut
- Adam Michael Johnson - Cum Laude
- Alec Jace Trent - Cum Laude
- Alexander Glenn Martin - Magna Cum Laude
- Alexander Nicholas Hromada - Cum Laude
- Andrew Joseph Magnuson
- Andrew Wade Peters
- Anna C Baur

- Bailey Andrew Loukinen
- Brandon Michael Hosang
- Charles Josef Vidro - Summa Cum Laude
- Cody James Boyd
- Conor McKiernan - Summa Cum Laude
- Daniel Elijah Lipka
- David John Heidema
- David Michael Lyman - Magna Cum Laude
- Elijah Witte - Summa Cum Laude
- Elizabeth M Van Elsen - Cum Laude
- Erica Mackenzie Schliem - Cum Laude
- Erin E Dolson - Magna Cum Laude
- Ethan A Matzdorf - Magna Cum Laude
- Ethan Joel Garvey - Magna Cum Laude
- Grant Montgomery Walker - Magna Cum Laude
- Jacob Stan Leczycki
- Jared A Anderson
- Jessica Lauren Brown - Magna Cum Laude
- Jordan C Gunning
- Joseph Thomas Lockwood
- Kevin D Cornell
- Kirk Lawrence Thelen - Summa Cum Laude
- Kyle Ashton Bennett - Cum Laude
- Mark Douglas Washington - Magna Cum Laude
- Matthew Ryan Kuhn
- Michael Christopher Walker
- Murali Amudha Abinaov - Magna Cum Laude
- Nisha R Elgonda
- Noah Alan Harris - Magna Cum Laude
- Noah Jacob Waugh - Magna Cum Laude
- Pablo Delgado - Magna Cum Laude
- Rachel Elizabeth Hartrick - Summa Cum Laude
- Ryan Robert Becotte - Cum Laude

- Sawyer Dalton Knowles - Cum Laude
- Siddhesh Mahadeshwar - Magna Cum Laude
- Tayler George Wilczynski - Summa Cum Laude
- Thomas John Grifka - Magna Cum Laude
- Trevor Maxwell Youngman
- Tyler D Norcia
- Zachary Joseph Noel - Cum Laude

Bachelor of Science in Construction Management

- Brad D Rievert
- Chase Gregory Noykos
- Corey Joseph Cotey - Cum Laude
- Mackenzie William Hull
- Preston Cameron Smith
- Wyatt Scott Bisballe

Bachelor of Science in Cybersecurity

- Gary Watson - Cum Laude
- Jacson Donald Ott - Cum Laude
- Matthew A Chau - Summa Cum Laude
- Olivia Laine Uzosike - Cum Laude
- Stuart Paul Kernstock
- Trevor John Hornsby - Magna Cum Laude

Bachelor of Science in Economics

- Tyler B Sepanik - Cum Laude

Bachelor of Science in Electrical Engineering

- Alexander Lyn Wilt - Magna Cum Laude
- Andrew Douglas Sizelove - Summa Cum Laude
- Andrew W Keskimaki
- Austin Robert Bucknell
- Bayleigh Makenna Purdy
- Chad Wallace Bruce - Summa Cum Laude
- Collin Thomas Bannister
- Cosmo Socrates Trikes
- Dakota Marie Frohriep - Magna Cum Laude

- Elijah Charles Morgan
- Emma Scott Kantola
- Eric Matthew Steve
- Estefanio Manuel Kesto - Summa Cum Laude
- Ethan James Zahrt - Cum Laude
- Evan Carl Robb
- Garrick Hamilton Ensminger - Magna Cum Laude
- Gerardo Jimenez Damian - Cum Laude
- Graham Spaulding - Cum Laude
- Haley Marie Jobe - Summa Cum Laude
- Hunter J Linzmeier
- Jaden N Coe
- Jared Alan Talsma
- Jasmine Grace Ifeoma Ngene
- Jenna Elizabeth McClintock - Cum Laude
- Joseph Dominic Suchyta
- Joshua Nicholas Green - Summa Cum Laude
- Junfeng Li
- Lawrence Michael Dilworth - Cum Laude
- Marleigh Purdy - Cum Laude
- Mary J Saldana
- Mason Jonathan Smith - Cum Laude
- Matthew David Dishman
- Michael McDonald - Cum Laude
- Michelle Barbara Pudas - Magna Cum Laude
- Molly K Baerman - Cum Laude
- Nicholas Gene Whisman - Summa Cum Laude
- Nicholas J Hoffbeck
- Nilin Cassidy Holley - Magna Cum Laude
- Peter A VanDerKolk
- Robert M Stewart
- Ryan K Reisbig
- Samuel Harvey Walker - Summa Cum Laude

- Scott Mitchel Dutton
- Sean P Smith - Cum Laude
- Sky Ann Hempel
- Sophia Mae Owen - Magna Cum Laude
- Spencer David Howe - Magna Cum Laude
- Thomas Eugene Olson - Cum Laude
- Travis Jacob Cavanaugh - Cum Laude
- Tyler Jacob Hartman - Cum Laude
- Veronika G Orman
- Zackary J Boruszewski
- Ziyu Ke - Cum Laude

Bachelor of Science in Electrical Engineering Technology

- Alexander Rogers - Cum Laude
- Alexander David Nedvidek
- Eric A Batz - Cum Laude
- Jason Glenn Sherred - Cum Laude
- Joshua David Kiefer - Cum Laude
- Tierra Hazel Charisse Kelley

Bachelor of Science in Engineering

- Andrew Dean Houston - Magna Cum Laude
- Brianna M Charlot - Summa Cum Laude
- Colton Patrick Stanislawski
- Conner W Pruitt
- Hunter Justin Higdon
- Logan Patrick Smith
- Talos Zambrano

Bachelor of Science in Engineering Management

- Caleb Christian Grulke - Summa Cum Laude
- Clayton Michael Sayen - Magna Cum Laude
- Cody Keith Slagle
- Daniel J Martin
- Ethan Carl Pietila
- Gabriel Liam Plattenberg

- Jacob Ryan Hiltunen
- John Joseph Zimelis - Magna Cum Laude
- Kevin Reginald Lee
- Matthew James Querfeld
- Megan Elizabeth Happel - Magna Cum Laude
- Natalie M Halligan
- Rebekah Helman
- Robert Neil Hawke

Bachelor of Science in Environmental Engineering

- Aden Grace Clark
- Alexandra Marie Noles
- Annika Maren Bergstrom - Magna Cum Laude
- Audra Lass Bialik
- Autumn Rose Sanford
- Chloe Lynn Strach - Summa Cum Laude
- Danielle Elaine Demorest - Magna Cum Laude
- Davis John Dietel
- Evan Patrick Rye
- Isabel B Valencia
- Isabel Genevieve Helen Manson
- Jack Joseph Hoffman
- Jenna Aurora Maria Kivela-Heinz - Cum Laude
- Joseph Benjamin Primeau - Summa Cum Laude
- Kate Linnea Mahonen
- Katelyn Marie Adair
- Lily May Sparks
- Lucinda Carole Toppen - Cum Laude
- Madison Irene Seymour
- Max Charles McGuire
- Maya Elizabeth Geiselhart - Cum Laude
- Michelle Shirley Bollini - Magna Cum Laude
- Nicholas Charles Kampfschulte - Summa Cum Laude
- Nickolas Ronald Portwine - Cum Laude

- Nicole Renee Mielcarek
- Rachel Lloyd Fuller
- Sara Katherine Lawson
- Shaelyn Josephine Koleber - Summa Cum Laude
- Skyler Elizabeth Kruger
- Travis Glenn Yell

Bachelor of Science in Exercise Science

- Allison Agnes Thelen - Magna Cum Laude
- Dawson A Kero - Magna Cum Laude
- Hunter John Kero - Cum Laude
- Jalen K Carter - Cum Laude
- Lauryn Elizabeth Richter
- Leah Rose Preston
- Mary Elizabeth Lyon
- Savannah Patricia Pasella
- Teiona May Fuson - Cum Laude
- William David Newell

Bachelor of Science in Finance

- Alexander Carl Broetzman
- Alicia Marie Shatrau
- Benjamin James Diercks - Cum Laude
- Brandon James Malburg - Cum Laude
- Elisabeth Marie Mattson - Summa Cum Laude
- Kyle Alan Clow - Summa Cum Laude
- Thomas Matthew Parrottino
- Trey Vincent LeVasseur

Bachelor of Science in Forestry

- Abigail Melissa Johnson - Summa Cum Laude
- Alexandra Marie Jurkanis
- Andrew Scott Ozanich - Cum Laude
- Brendan T Flanagan
- Chase Evan Fallu - Magna Cum Laude
- Evan Neibauer

- Joash Pfeiffelman - Summa Cum Laude
- Matthew Richard Hennessy - Cum Laude
- Tristan Eric Forsberg
- Ty Young
- Victoria Jean Peck - Summa Cum Laude
- William John Glaser
- Zachary Steven Froelich - Cum Laude

Bachelor of Science in Geological Engineering

- Hayden Thomas Risko

Bachelor of Science in Geology

- Matthew Charles Kummeth
- Ryan James Schwiderson - Cum Laude

Bachelor of Science in Geospatial Engineering

- Connor Welling - Magna Cum Laude

Bachelor of Science in Human Biology

- Alexandria Rondorf - Magna Cum Laude
- Isabella Gabrielle Menzel-Smith - Summa Cum Laude
- Jordan Marie Ludescher - Cum Laude
- Thomas Robert Basala - Summa Cum Laude

Bachelor of Science in Management

- Alexandra Marie Jahfetson
- Daniel Nicolas Garcia
- Emilie Michele Sander
- Grace Elizabeth Shaw - Cum Laude
- Jenna Marie Rubick - Summa Cum Laude
- Madison Paige Spande
- Nathaniel Aaron Nannfeldt - Cum Laude
- Oda Hatlestad Hovland
- Sydney Louise Ivers - Cum Laude
- William Mitchell Floyd

Bachelor of Science in Management Information Systems

- Christopher Lee Arbuckle - Magna Cum Laude
- Macy Carol Pawielski - Cum Laude

- Nicholas P Yost - Magna Cum Laude
- Zachary Quentin Cushman - Cum Laude

Bachelor of Science in Marketing

- Coleton Scott Kotecki - Cum Laude
- Ellie Mackay - Cum Laude
- Matthew Eerdmans
- Taryn Danielle Taisto

Bachelor of Science in Materials Science and Engineering

- Anna Marie Hildebrandt - Summa Cum Laude
- Ashlyn Marie Steer - Cum Laude
- Eli Anthony Harma - Cum Laude
- Isabella Marcella Wakeham
- Isabelle M Hemmila
- Kendal Jean Kroes - Magna Cum Laude
- Kyle Joseph Bieniewicz - Cum Laude
- Matthew Joseph Reich - Summa Cum Laude
- Nishant Lakshmaiah Peruri
- Reese W Eichner - Cum Laude
- Shannon Nicole Smith
- Sonja Claire Blickley
- Taylor Elizabeth Hines
- Victoria Jean Nizzi - Summa Cum Laude
- Zbigniew James Bell

Bachelor of Science in Mathematics

- Alan Kendrik Bouwman - Magna Cum Laude
- Allison K Gilles - Summa Cum Laude
- Allycia Larae Lemme
- Ashok Evan Ravindran - Cum Laude
- Cody John McCarthy
- Ella Marie Faulk
- Emma Scott Kantola
- Griffin Andrew Pepin - Cum Laude
- Ian Boulis

- Jacob Thomas Siedlecki - Magna Cum Laude
- Logan Jay Alger - Cum Laude
- Marcella Elizabeth Mick
- Nickolas Ryan Snell
- Skylar Jean Callis - Summa Cum Laude
- Vidhan Khanal - Magna Cum Laude
- Zoe Kordich Reep - Magna Cum Laude

Bachelor of Science in Mechanical Engineering

- Aidan Michael Stead - Summa Cum Laude
- Alexander J Klaschus
- Alexander Lyn Wilt - Magna Cum Laude
- Andrew Douglas Szelove - Summa Cum Laude
- Andrew Mark Bunge
- Andrew Michael Gosz - Cum Laude
- Andrew Thomas Jackson
- Anna Elizabeth Gulan - Summa Cum Laude
- Anthony Scott Koerner
- Austin Jeffery Goudge
- Austin Patrick Mahoney
- Austin Reeve Schaub
- Austin Robert Nardi
- Bayleigh Makenna Purdy
- Blake Jeffrey Otto
- Brian Raymond Halonen
- Bridget Rose Streicher
- Cameron John Curtis
- Carter Nelson Johnston
- Casper Daniel Padilla
- Cesar H Nakasone
- Charles Leonard Carey - Magna Cum Laude
- Chase Rytlewski - Summa Cum Laude
- Chase Michael Carpenter
- Christa Rose Eaton

- Christopher Briar
- Cody Howard Hughes - Magna Cum Laude
- Cody Scott Blauwkamp - Magna Cum Laude
- Colin Clifford Fleming
- Colin David Johnson
- Colin J. Schaefer - Summa Cum Laude
- Connor Thomas Gilbreath - Magna Cum Laude
- Cory James Wayward - Cum Laude
- Daniel Olson - Magna Cum Laude
- Daniel A Prada - Magna Cum Laude
- Daniel J Niemeier - Cum Laude
- Daniel James Hood - Magna Cum Laude
- David Niilo Raisanen - Magna Cum Laude
- Devon Jonathon Forner
- Drew Leonard Daavettila - Magna Cum Laude
- Dutch A Schaefer
- Dylon J Williams
- Elijah F Tormala - Cum Laude
- Elizabeth Nancy Williams
- Elizibeth Lynn McVay - Cum Laude
- Eric Mark Mossner
- Eric R Gotz
- Erik Baumann - Cum Laude
- Erik W Pitcher
- Erin Lynn Goff
- Ethan James Zahrt - Cum Laude
- Ethan M Miller
- Frederick Franklin Carl - Summa Cum Laude
- Garrett Ross Henry
- Gavin James Kumpelis - Cum Laude
- Grace Margaret TenBrock - Summa Cum Laude
- Hayden Charles Huttula - Magna Cum Laude
- Hunter Devin Way - Summa Cum Laude

- Isaac Leroy Genter
- Jack Lewis Block - Summa Cum Laude
- Jack T Kuckhahn
- Jacob D Schaldenbrand
- Jacob Daniel Schleben
- Jacob G Bondi - Cum Laude
- Jacob L Longstreth - Cum Laude
- Jacob Paul Klotz
- Jake Davison Abbott
- James Joseph Daanen - Magna Cum Laude
- James Peter Zuzelski - Magna Cum Laude
- Jared Scott Jarvis
- Jay Robert Monique
- Jeremy Austin Burby - Magna Cum Laude
- John David Herr - Magna Cum Laude
- Jonathan Clayton Hurlburt - Magna Cum Laude
- Jordan T Badder
- Jorge Quincy Povich - Summa Cum Laude
- Joseph Golinske - Cum Laude
- Josh Tyler Seiter
- Joshua Robert Hentkowski
- Justin Reed Moyle - Cum Laude
- Karl James Seppanen
- Karynn Amirra Mikesell
- Kathryn Laura Pioch - Cum Laude
- Keira Tegan Wright
- Kyle Alan Clow - Summa Cum Laude
- Kyle Cole Demaree
- Kyle J Harris - Cum Laude
- Kyle Reece Wiersma - Cum Laude
- Landon Philip Kohtz - Summa Cum Laude
- Leif Carlton Olson - Magna Cum Laude
- Logan James Ferguson

- Logan Roger Canull - Summa Cum Laude
- Lucas Hunter Kuznicki
- Lucas Michael Schloemp - Magna Cum Laude
- Luke Christopher Quilliams - Magna Cum Laude
- Luke Edward Owens
- Luke Kevin Nutt - Cum Laude
- Madison Nicole Jarnot - Cum Laude
- Matthew David Beals - Magna Cum Laude
- Matthew Jacob Krause
- Matthew James Zambon - Cum Laude
- Matthew S Gauthier - Summa Cum Laude
- Matthias Emil Schneider
- McLane William Menting
- Mckenzie Yates Halley-Gluesing
- Michael Alexander Brown
- Michael Gary Johnson - Cum Laude
- Michaela C Fung - Cum Laude
- Mitchell D Welter
- Mitchell Royce Patterson
- Mitchell Thomas Meyer - Cum Laude
- Morgan Thomas Bialek
- Nathan Joseph Srp - Magna Cum Laude
- Nathan Samuel Frazier - Magna Cum Laude
- Nathaniel John Pippin - Cum Laude
- Nicholas Allen Hopp
- Nicholas Andrew Schieberl
- Nicholas Cole Redman - Magna Cum Laude
- Nicholas John William Allsop
- Nicholas Joseph Soraruf
- Nicholas R Maitrejean
- Nicolas Anthony Schlicht
- Nicole Gallup
- Nishant Lakshmaiah Peruri

- Noah Dennis McKnight-Tomioka
- Noah Gregory Skrzypczak
- Nolan Lee Annis - Summa Cum Laude
- Owen S White - Magna Cum Laude
- Paige Anne Dopp - Magna Cum Laude
- Patrick Ross Auz - Cum Laude
- Pey-Luen Ooi
- Randal Marie Ruby
- Ross R Richards
- Ruby Jane Birckelbaw
- Samantha Michelle Zerbel - Magna Cum Laude
- Samantha Norah Pool
- Samuel Robert Barwick - Summa Cum Laude
- Sawyer Alan Bulloch - Magna Cum Laude
- Sean L Patterson
- Sean Michael Toohey
- Seth Daniel Jensen-Younk - Cum Laude
- Sophie Miller
- Stephen David Mleko
- Steven Robert Turner
- Steven Tyler Thoresen
- Timothy Alexander Tallman
- Timothy W Hamilton - Summa Cum Laude
- Turner J Lechner
- Tyler Harris
- Valerie Rose Lynch - Magna Cum Laude
- Valerin Arianna Hernandez Mendoza
- Victoria Jean Nizzi - Summa Cum Laude
- Weston Paul Stroming - Cum Laude
- Yessica Noemy Romero Martinez
- Zachary A Kondrad - Summa Cum Laude
- Zachary Alan Crook - Cum Laude
- Zachary Harold Hays

- Zachary James Werth
- Zachary Noah Darkowski - Magna Cum Laude
- Zachary Orion Peirce - Cum Laude
- Zbigniew James Bell

Bachelor of Science in Mechanical Engineering Technology

- Alexander Dominic Sherry
- Brandon M Kuhn
- Cody James Eby
- Dane Alex Riha
- Darius Malique Schultz
- Derek Paul Flory - Magna Cum Laude
- Ean Paul Salo - Cum Laude
- Erika Lyn Gabriel - Cum Laude
- Hannah Erin Wright
- Hunter Grant Ransom
- Jacob Evan Talaga
- Joseph K Williams
- Michael Joseph Forrester
- Robert J Sullivan
- Spencer R Butke - Magna Cum Laude
- Stewart Anthony Daniels
- Virginia Marvel Janes
- William Patrick Reukauf
- Zachary J Barrette

Bachelor of Science in Medical Laboratory Science

- Bailey Marie Poyhonen
- Brooke Joelle Tienhaara
- Clara Pauline Johnson - Magna Cum Laude
- Delilah Suzanne Hauswirth - Summa Cum Laude
- Jenna Rose Disser - Magna Cum Laude
- John Alexander Kostick - Magna Cum Laude
- Kierstyn Rose Codere - Magna Cum Laude
- Lillian Jin VanLoon - Magna Cum Laude

- Madison Alexis Degnitz
- Nathaniel Contreras Macabebe
- Shay Marie Ekdahl - Summa Cum Laude

Bachelor of Science in Mining Engineering

- Cade S Johnson - Magna Cum Laude

Bachelor of Science in Natural Resources Management

- Gabrielle Eugenia Gentz
- Lukasz Maria Spiewla - Cum Laude

Bachelor of Science in Pharmaceutical Chemistry

- Jamie Lee Spars

Bachelor of Science in Physics

- Anthony D Palmer - Summa Cum Laude
- Bethany Christine Hellman - Cum Laude
- Dalton Christopher Knight - Magna Cum Laude
- Marc Charles Fritts - Cum Laude
- Marco Jack Pozza

Bachelor of Science in Psychology

- Hannah Bershing
- Mya E Tomashek - Summa Cum Laude
- Tyrell John William Buckley - Magna Cum Laude

Bachelor of Science in Scientific and Technical Communication

- Carl Anthony Trzaskoma
- Emma Nicole Kooistra Vredevoogd
- Jack Robert Bruecker - Cum Laude
- Megan Elizabeth Happel - Magna Cum Laude
- Ryan James Cote

Bachelor of Science in Software Engineering

- August Anthony Miller - Summa Cum Laude
- Brian Daniel Reece
- Devin Michael Stewart
- Harrison Robert Taylor
- Ian Patrick Lawrie - Cum Laude
- Jonah J Theder

- Justin Frank Murie - Cum Laude
- Marie Suzanne Zgurich
- Nicole Victoria Wiszowaty
- Richard David Weycker
- Trent James Carlson - Cum Laude

Bachelor of Science in Sports and Fitness Management

- Tyler Chenhall Hampton

Bachelor of Science in Statistics

- Alayna Audrey Merten - Summa Cum Laude
- Caleb Arthur Hiltunen - Magna Cum Laude
- Joshua Raymond Jaskolski
- Ryan Dura - Summa Cum Laude

Bachelor of Science in Surveying Engineering

- Spencer Trace Plummer

Bachelor of Science in Sustainability Science and Society

- Erin E Doran - Summa Cum Laude

Bachelor of Science in Theatre and Entertainment Technology

- Allison Marie Southgate - Cum Laude
- Amy Elizabeth Verhines

Bachelor of Science in Wildlife Ecology and Conservation

- Jenna Irene Brewer - Summa Cum Laude
- Shane A Dunn

Bachelor of Science in Wildlife Ecology and Management

- Christian Matthew Stevens
- Claudia Elise Zinser - Cum Laude
- Dylan Michael Bishop
- Eli Andrew Paulen - Cum Laude
- Heidi Nicole Feliczak - Magna Cum Laude
- Madison Nicole Doane
- Megan Lynn Baird - Cum Laude
- Megan Marie Sparks

Doctor of Philosophy in Applied Physics

- Andrew James Puyleart

Doctor of Philosophy in Biological Sciences

- Erin Katharine Eberhard

Doctor of Philosophy in Biomedical Engineering

- Ariana Gabrielle Smies

Doctor of Philosophy in Chemical Engineering

- Natalia Parra Alvarez

Doctor of Philosophy in Chemistry

- Adikari Mudiyansele Dhananjani Nisansala Eriyagama

Doctor of Philosophy in Civil Engineering

- Darud E Sheefa
- Yunxiang Ma

Doctor of Philosophy in Computer Engineering

- Akhil Manoshkumar Kurup

Doctor of Philosophy in Electrical Engineering

- Madhur Arun Jagtap
- Mehdi Malekrah

Doctor of Philosophy in Geology

- Emily Elizabeth Gochis

Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

- Chethan Ramakrishna Reddy
- Oudumbar Rajput
- Salman Husain
- Shabnam Konica
- Vinicius Bonfochi Vinhaes

Doctor of Philosophy in Rhetoric, Theory and Culture

- Tolulope Aina Odebunmi

Doctor of Philosophy in Statistics

- Shijia Yan

Master of Business Administr. in Business Administration

- Alexander Jerome Roelant
- Andrea Romero Peters
- Anna Grace Jonynas
- Anthony Paul Harris

- Brady Gordon Jonas
- Case David Kamminga
- Eric Matthew Hildebrand
- Erika Ann Carne
- Erin Rose Vandebusch
- Justin Michael Misiak
- Kieran Thomas Carl Schimmel
- Kyle Jon Koetje
- Logan Mark Lukonic
- Malik Shamarr Busch
- Megan Alexandra Utlak
- Nicholas Krebsbach
- Patrick John Diedrich
- Tanner Jeffrey Polglaze
- Teeaaron Justice Powell
- William Michael Blau

Master of Engineering Mgmt in Engineering Management

- Dairion Norman Hartshorn
- Samantha Ann Appleyard

Master of Forestry in Forestry

- Matthew David Yeo
- Seth Douglas Lewis

Master of Geographic Info Sci in Geographic Information Science

- Emma Wyn Jones
- Nicholas Alan Treusch

Master of Science in Applied Cognitive Science and Human Factors

- Alexandra Watral
- Ivona Gorgioski

Master of Science in Applied Ecology

- Evelyn Kay Magner
- Seth Reuben Finkel

Master of Science in Applied Physics

- Aaron John Wildenborg

- Megan Elizabeth Morgenstern

Master of Science in Applied Statistics

- Christopher Eric Martin
- Daniel L Cravens
- Kasia Krueger
- Kerri Parks
- Lorenzo Gordon
- Maria Anghelache
- Maria Dmitrievna Kuznetsova
- Michael Richard Jankowicz
- Nicholas Dee Johnson
- Ryan Jacob Huston
- Tristan Daniel Greathouse

Master of Science in Biological Sciences

- Austin Richard Johnson
- Lydia Ann Rotman
- Molly Fitzgerald
- Spencer John Snider
- Tristan Rhys Bonifield
- Zayne T Knuth

Master of Science in Biomedical Engineering

- Ami Ann Kling
- Jesse Mae Jacobusse
- Nathan David Marus
- Zonghan Lyu

Master of Science in Chemical Engineering

- Joshua J Cowdrey
- Paul William Langsford

Master of Science in Civil Engineering

- Alec John Weitermann
- Charles Akili Gotta
- Colton James Heikkinen
- Cooper James Ryan

- Dongzhao Jin
- Emily Beth Berkompas
- Kelton Christopher Czyzio
- Mathieu J St. Amour
- Robyn Nicole Holmes
- Ryan Glatz
- Sydney Lynn Mukavetz
- Zachary David Fredin

Master of Science in Computer Science

- Bradley J Hoose
- Jonathan Cameron Parks
- Kurush Sayras Kasad
- Parth Mishra
- Soheil Sepahyar
- Steven John Brylinski

Master of Science in Cybersecurity

- Charles Ian Warren
- Dakota Ian-Kennard Patterson

Master of Science in Data Science

- Alexander Matthew Putman
- Dana Alexandra Paquet
- Grace Victoria Nemecek
- Jordan Jeffrey Ewing
- Katherine Irene Schmidt
- Meara Elizabeth Pellar-Kosbar
- Nagaharshitha Chinta
- Navjot Kaur
- Prathamesh Balkrishna Jadhav
- Samantha Sue Richardson
- Surya Charan Goud Ravula

Master of Science in Electrical Engineering

- Jonathan Charles Martin Dobbs
- Madhur Arun Jagtap

- Pranav Omanakuttan Nair

Master of Science in Electrical and Computer Engineering

- Andrew James Scott
- Chelsey Briann Spitzner
- Dhruv Dahiya
- Lucas Scott Determan
- Matthew Paul Spencer
- Matthew Sean Loehr
- Michael Christopher Sutor
- Mikolaj Maksymillian Pal
- Pranav Kishore
- Shilpa Sharma
- Shreyas Srinivas Reddy

Master of Science in Environmental Engineering

- Amanda Lynn Freele
- Bailey Ann Papes
- Brian William Rivers
- Chiarra Rose Elkort-Wickboldt
- Clinton John Ottman
- Kyle L Danko

Master of Science in Environmental and Energy Policy

- Jessica Applin
- Katherine Ann Schmidt
- Olivia Joy Dendy Ghormley

Master of Science in Forest Ecology and Management

- Emily Colett Lindback

Master of Science in Geological Engineering

- Abilynn Elizabeth Raetz

Master of Science in Geology

- Jacob M Bonessi
- Joshua James Bregger

Master of Science in Geophysics

- Breeanne Marie Heusdens

- Kassidy R O'Connor

Master of Science in Health Informatics

- Thomas Justin Bilan

Master of Science in Integrated Geospatial Technology

- Andrew Steven Jolman
- Sean Christopher Hurst

Master of Science in Materials Science and Engineering

- Kyle David Hrubecky
- Natalie Rose Wieber
- Zohreh Salimi

Master of Science in Mechanical Engineering

- Alayna Nicole Farrell
- Andrew Dennis Huston
- Anirban Samanta
- Atharva Tushar Desai
- Carl Samuel Greene
- Cory Allan Harris
- Donald L Marwin
- Emily Rose Zeitunian
- Hemant Ramakant Narkhede
- Jacob Kenton Colling
- Justin Michael Boogaart
- Kishan Janak Gajjar
- Marcello Ciro Guadagno
- Naveen Reddy Avuthu
- Nicolas Clarence Tuma
- Onkar Prakash Salunkhe
- Peter Ethan Lund
- Piyush Atul Aphale
- Shiyong Cai

Master of Science in Mechatronics

- Eric H Houck
- Joshua Weiskopf Albrecht

- Sourish Motey
- Zongguang Liu

Master of Science in Physics

- Alex Samuel Buiciuc
- Ian Garrett Herzog
- Rhiannon Turner
- Samuel John Groetsch
- Sonali Mohan
- Zackerie William Hjorth

Master of Science in Statistics

- Lirong Zhu

VII-C. RESIGNATIONS, RETIREMENTS, AND OFF PAYROLL

Attached is a report of resignations, retirements, and off payroll which have been approved by the President and are included for his convenience in recommending acceptance by the Board.

RECOMMENDATION: That the Board of Trustees accepts the resignations, retirements, and off payroll determinations.

BOARD OF TRUSTEES OFF-PAYROLL REPORT
(April 3, 2022 – June 30, 2022)

RETIRED

Name	Class	Department	Title	Most Recent Hire Date	Term Date
David Fredianelli	AF	Facilities Management	Building Mechanic	09/14/1990	06/30/2022
Rhonda McClellan	AF	Facilities Management	Building Mechanic	09/07/1990	06/30/2022
Michael Monette	AF	Facilities Management	Building Mechanic	08/31/1979	05/06/2022
Jerry Norkol	AF	Chemical Engineering	Master Machinist	10/01/1995	06/30/2022
Thomas Polkinghorn	AF	Facilities Management	Building Mechanic	10/01/1993	05/20/2022
Susanne Kilpela	FC	Visual & Performing Arts	Senior Lecturer	08/13/2006	06/30/2022
Karin Schlenker	FC	Humanities	Senior Lecturer	08/13/2006	06/30/2022
William Predebon	FD	Mechanical Engineering-Engineering Mechanics	Department Chair	11/24/1975	06/30/2022
Lawrence Sutter	FD	College of Engineering	Associate Dean of Research & External Relations	08/24/1997	06/30/2022
Jeffrey Burl	FF	Electrical & Computer Engineering	Associate Professor	08/23/1993	06/30/2022
Michael Roggemann	FF	Electrical & Computer Engineering	Professor/Director of Computer Information Systems Security Interest Club	07/01/1997	06/30/2022
Ronald Strickland	FF	Humanities	Professor	07/01/2009	06/30/2022
Stanley Vitton	FF	Civil, Environmental & Geospatial Engineering	Professor	08/29/1994	06/30/2022
Rodney Thompson	NF	University Marketing & Communications	Manager of Print and Mail Services	07/25/2005	06/30/2022
Dean Anderson	PF	Keweenaw Research Center	Research Engineer	02/01/1999	04/05/2022
Donald Close	PF	Information Technology Operations	System Administrator	12/09/1985	06/17/2022
David Fredrickson	PF	Enterprise Application Services	Senior Application System Analyst	05/23/1988	05/27/2022
Lorrie Graff	PF	Office of Advancement	Donor Research Manager	02/12/2006	06/30/2022
Michael Johnson	PF	Registrar's	Associate Registrar	09/19/1996	06/30/2022
Tammy LaBissoniere	PF	Sponsored Programs Accounting	Director, Sponsored Programs Accounting	03/20/1994	06/30/2022
James Pakkala	PF	Keweenaw Research Center	Research Engineer	03/14/2016	04/01/2022
Robert Shuchman	PF	Michigan Tech Research Institute (MTRI)	Institute Co-Director	10/0/2006	06/30/2022
Darcy Way	PF	Office of Advancement	Director of Advancement	03/30/2015	06/30/2022
Carol Wiitanen	PF	Sponsored Programs Office	Senior Sponsored Programs Analyst	08/02/1998	06/30/2022
Jean Burich	PP	Registrar's	Transfer Services Coordinator	09/16/1981	06/30/2022
Michael Pionke	PP	Center for Technology & Training	Senior Software Engineer	03/07/2005	06/30/2022
Christine Codere	PF	Center for Technology & Training	Senior Project Manager, Training & Operations	01/03/2001	06/03/2022
Lloyd Wescoat	PP	Civil, Environmental & Geospatial Engineering	Education Program Assistant	10/06/2008	04/29/2022
Barbara Hendrickson	UF	Financial Services & Operations	Administrative Aide	08/29/1983	06/30/2022
Sharri Karppinen	UF	Registrar's	Senior Administrative Aide	06/16/1982	06/30/2022
Mary P. Stevens	UF	Transportation Services	Administrative Aide	04/26/1999	06/03/2022

OFF-PAYROLL

Name	Class	Department	Title	Most Recent Hire Date	Term Date
Christopher Harry	AF	Sports & Recreation Operations	Custodian	07/15/2002	06/30/2022
Kelly Lindgren	AF	Wadsworth Hall Food Service	Cooks Helper	02/07/2022	04/12/2022
Anthony Marcarelli	AF	McNair Hall Food Service	Food Service Helper	01/04/2016	05/29/2022
Craig Rheault	AF	Facilities Management	Custodian	04/18/2022	05/15/2022
Teri Van Norman	AF	Facilities Management	Custodian	01/06/2014	04/16/2022
Cora Essenmacher	CF	General Athletics	Assistant Women's Soccer Coach	02/08/2021	04/17/2022
Susan Kerry	EX	Chief Financial Officer & Senior Vice President for Administration	Chief Financial Officer/Senior Vice President for Administration	06/01/2019	06/30/2022
Yunting Liu	FF	Electrical & Computer Engineering	Assistant Professor	08/09/2021	06/30/2022
Cory McDonald	FF	Civil, Environmental & Geospatial Engineering	Assistant Professor	01/01/2018	05/06/2022
Pamela Kotila	NP	Humanities	Humanities Digital Media Zone Consultant & Resource Coordinator	04/08/2019	06/01/2022
Eric Bjorn	PF	Facilities Management	Construction Manager	06/20/2016	04/22/2022
Andrew Brusso	PF	Enterprise Application Services	Programmer/Analyst	10/14/2013	04/22/2022
Shaun Burriss	PF	Information Technology Operations	Windows System Administrator	12/28/2020	04/29/2022
Adam Griffis	PF	Career Services	Manager of Employer Relations	04/14/2014	04/19/2022
Heather Guilbault	PF	Human Resources	Manager of Benefits & Wellness	12/04/2017	04/29/2022
Samantha Hayrynen	PF	Human Resources	Manager of Payroll	06/14/2021	06/03/2022
Courtney Holzberger	PF	Associate Vice President for Research & Development	Director of Animal Research Protection Program	08/29/2011	03/25/2022
Amanda Jackson	PF	University Marketing & Communications	Project Manager	02/09/2015	05/13/2022
Hans Lechner	PF	Chemistry	Research & Communication Facilitator	02/22/2021	06/11/2022
Daryl Matthews	PF	Auxiliary Service	Director of Dining Services	06/08/2015	05/31/2022
Nicole Wiitanen	PF	Human Resources	Payroll Associate	02/07/2022	05/20/2022
Maxwell Burns	UF	Sports & Recreation Operations	Office Assistant	03/07/2022	06/08/2022

VII-D. FUNDRAISING PRODUCTIVITY REPORT

Attached is a fiscal year to date comparative report of gifts to Michigan Technological University and the Michigan Tech Fund.

RECOMMENDATION: That the Board of Trustees acknowledges the gifts to Michigan Technological University.

Michigan Technological University
Michigan Tech Fund
Fundraising Productivity Report

July 1, 2021 through June 30, 2022
 Compared to Prior Fiscal Year

FY22

Source	YTD Total	Adjustment	FY Goal <small>(in millions)</small>	% of Goal
Individual Giving	18,911,259		20.75	91%
Corporate Giving	2,350,521		2	118%
Foundation & Other Org Giving	2,371,806	8,285,750	5	213%
Corporate Sponsored Research	15,092,172		13	116%
FUNDRAISING TOTAL	38,725,758	8,285,750	40.75	115%

<i>Amt of TOTAL from Gifts-in-Kind</i>	192,382	<i>(included in the source totals above)</i>
<i>Amt of Gifts/Pledges earmarked for the endowment</i>	10,343,347	<i>(included in the source totals above)</i>
<i>Amt of Gifts/Pledges earmarked for unrestricted funds</i>	2,359,806	<i>(included in the source totals above)</i>

	FY Goal	% of Goal
TOTAL PROGRESS TOWARDS FY GOAL	47,011,508	40.75

<i>Realized Planned Gifts - All</i>	4,035,654	<i>(NOT included in the source totals above)</i>
<i>Amt of Realized Planned Gifts earmarked for the endowment</i>	996,437	

<i>Realized Pledges</i>	3,008,230	<i>(NOT included in the source totals above)</i>
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FY21

Source	YTD Total	Adjustment	FY Goal <small>(in millions)</small>	% of Goal	FY21 Total
Individual Giving	20,547,721	2,000,000	18.25	124%	22,547,721
Corporate Giving	2,304,523		1	230%	2,304,523
Foundation & Other Org Giving	4,187,024	142,359	1	433%	4,187,024
Corporate Sponsored Research	14,807,686		11	135%	14,807,686
FUNDRAISING TOTAL	41,846,953	142,359	31.25	134%	43,989,312

NOTE: Corp gifts FY total adjustment 8,600.00

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).

VIII. ACTION AND DISCUSSION ITEMS

- A. Employee Recognition
- B. Appointment with Tenure
- C. Emeritus Rank
- D. Appointment of Treasurer
- E. Resolution for Sales of Surplus Property
- F. Revisions to Board Policies
- G. Agreement between Michigan Technological University & Michigan
Tech Fund
- H. Presidential Compensation

VIII-A. EMPLOYEE RECOGNITION

For our employees that have worked for Michigan Tech for 35 or more years and in recognition of their distinguished service and outstanding contributions to Michigan Tech, the Board would like to honor them with a resolution of appreciation.

RECOMMENDATION: That the Board of Trustees adopts the Resolution of Appreciation for the following individuals:

1. Jean Burich, Transfer Services Coordinator, Registrar's – 41 years of service
2. Donald Close, System Administrator, Information Technology – 37 years of service
3. Barbara Hendrickson, Administrative Aide, Financial Services & Operations – 39 years of service
4. Sharri Karppinen, Senior Administrative Aide, Registrar's – 40 years of service
5. Michael Monette, Building Mechanic, Facilities Management – 43 years of service
6. William Predebon, Department Chair, Mechanical Engineering-Engineering Mechanics – 47 years

VIII.B-1. APPOINTMENT WITH TENURE

Included herein is a request for the appointment of Dr. Jin Woo Choi to Michigan Tech's faculty as a Professor with tenure effective August 15, 2022. Dr. Choi is joining Michigan Tech to serve as the chair of the Department of Electrical and Computer Engineering under the umbrella of the College of Engineering.

Dr. Jin Choi's tenure dossier was reviewed by the Promotion and Tenure Committee in the Department of Electrical and Computer Engineering, a professor and past chair of the Department of Electrical and Computer Engineering, the College of Engineering Promotion and Tenure Committee, the dean of the College of Engineering, the Provost, and the President. All recommended appointment with tenure.

Dr. Choi held a tenured appointment as a professor and until June 30, 2022 served as chair of the Department of Electrical and Computer Engineering in the College of Engineering at Louisiana State University. Dr. Choi earned his PhD from the University of Cincinnati in 2001. He assumed the duties of chair of the Department of Electrical and Computer Engineering at Michigan Tech University July 1, 2022.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointment of Dr. Jin Woo Choi as Professor with tenure in the Department of Electrical and Computer Engineering effective August 15, 2022.



Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Jacqueline E. Huntoon, Provost & Senior Vice President for Academic Affairs *Jacqueline E Huntoon*

COPY: Andrew Storer, Interim Provost & Sr. VP for Academic Affairs effective July 1, 2022

DATE: June 30, 2022

SUBJECT: Recommendation for Tenure

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following incoming faculty have been recommended for tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their August 4, 2022 meeting. If approved, the promotions will be effective as noted below.

Professor with Tenure

Jin W. Choi	Electrical & Computer Engineering	08/15/2022
Amy J. Clarke	Materials Science & Engineering	07/01/2023
Kester D. Clarke	Materials Science & Engineering	07/01/2023

APPROVED:

Richard Koubek, President

7/6/22

Date

INFORMATION SHEET FOR BOARD OF TRUSTEES

Jin W. Choi

Michigan Technological University

Jin W. Choi, is currently a professor and chair in the Department of Electrical and Computer Engineering in the College of Engineering, is being considered for tenure in the Department of Electrical and Computer Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2001	The University of Cincinnati, Cincinnati, OH
M.S.	1996	Seoul National University, Seoul, Korea
B.S.	1994	Seoul National University, Seoul, Korea

Professional Record:

2022 – present	Professor and Chair (as of July 1, 2022), Department of Electrical and Computer Engineering, Michigan Technological University
2017 – 2022	Professor (with tenure), Department of Electrical and Computer Engineering, Louisiana State University, Baton Rouge, LA
2010 – 2017	Associate Professor (with tenure), Department of Electrical and Computer Engineering, Louisiana State University, Baton Rouge, LA
2003 – 2010	Assistant Professor, Department of Electrical and Computer Engineering, Louisiana State University, Baton Rouge, LA
2001 – 2003	Research Associate (2001-2002)/Research Assistant Professor (2002-2003), Department of Electrical and Computer Engineering and Computer Science, University of Cincinnati, Cincinnati, OH

Summary of Accomplishments:

• Teaching

Jin W. Choi has taught courses in electronics and multidisciplinary areas. His efforts in teaching were rewarded with *Louisiana State University Tiger Athletic Foundation Undergraduate Teaching Award* in 2009, *Instructor Excellence Award* in 2015, and *Longwell Instructor Excellence Award* in 2018, all at Louisiana State University in recognition of excellent teaching in undergraduate classes. In addition, an NSF instructional grant (2008-2011) as PI was awarded for the development of a multidisciplinary laboratory course on microfluidic biochip technologies. His commitment in education also includes advising and mentoring students. He has been mentoring over 20 undergraduate researchers in his research group in addition to advising and mentoring graduate students. Several graduate and undergraduate students under his supervision have received national- and state-wide scholarship or fellowship awards notably including IEEE Charles LeGeyt Fortescue Graduate Scholarship (R. P. Tortorich, 2013-2014) and Barry M. Goldwater Scholarship (B. I. Robertson, 2020). The IEEE Charles LeGeyt Fortescue Graduate Scholarship is a prestigious national award from IEEE with only one student selected every year in the nation and the Goldwater Scholarship is a prestigious national scholarship for undergraduates given in the natural sciences, engineering and mathematics. He will continue to pursue his teaching philosophy in the classroom and laboratory to encourage the students to creatively think and to train them to be ready for a career in engineering. His ultimate goal as a teacher is to inspire students to be ready for continuous learning from what they perceive so that they can be prepared for emerging and rapidly advancing technologies.

- Research/Scholarly Activity

Jin has developed a research program on emerging areas of a variety of sensors and sensor systems, biomedical microdevices, and bioelectronic microdevices at Louisiana State University (LSU). His current research thrusts include nanotubes and nanowires for chemical and biological sensing, bioelectronic sensors and wearable devices, flexible and printable electronics and sensors, handheld optical detection platforms, and other sensor applications. His research group has recently developed and demonstrated inkjet-printed and nanomaterial-based sensors for chemical and biological sensing, conductive elastomer sensors and relevant fabrication techniques, light emitting diode (LED)-based optical sensing platforms and devices, and other sensors for various applications. During his professional career, he has published 2 edited volumes, 6 book chapters, 75 journal papers, 65 full-length conference proceedings, and 94 conference abstracts. Additionally, he has 8 issued US patents and several pending non-provisional applications. As recognition by the research community, the published papers were highly cited. The number of total citations exceeds 6,500 as reported by Google Scholar with an h-index of 35 as of May 2022. In addition to publications, he has been active in pursuing research grants to support his research program and am currently holding eight active grants from National Science Foundation, Department of Defense, Department of Transportation, Louisiana Board of Regents, and an internal source. The nature of his own research being interdisciplinary, he profoundly understands interdisciplinary research and will be able to assist faculty and students to develop research and collaborations. In addition to the stated major thrusts of his research program based on the achievements, his research will further expand to i) sensors and sensor systems for biomedical and IoT applications and ii) biomolecular sensors and devices in collaboration with faculty at Michigan Technological University.

- Service

Jin has actively engaged in service to the professional society. He has served on a number of technical program committees and international program committees. In addition, he has served several editorship positions of reputed journals including *IEEE Transactions on Biomedical Engineering* (associate editor, 2012-2013), *Microelectronic Engineering* (editor special issues, 2015-2021), and *Micro and Nano Engineering* (editor special issues, 2019-present). For institutional service activities, at the Department level, he served as the ABET coordinator (2014-2016) and the graduate program advisor (2019-2022) and chaired several committees. At the University level, he served Institutional Effectiveness Council (2019-2022) and the Faculty Senate (2019-2022, elected member), all at Louisiana State University. Based on his prior service experience, Jin will continue serving the University and professional communities and pursue excellence in research, education, and outreach.

- Recent and Significant Publications/Exhibitions/Performances/Etc.

1. L Pu, PJ Chacon, HC Wu, JW Choi (2022). Novel robust photoplethysmogram-based authentication. *IEEE Sensors Journal*, 22(5), 4675-4686
2. TH da Costa, JW Choi (2022). An all elastomer pressure sensor utilizing printed carbon nanotube patterns with high sensitivity. *Micro and Nano Engineering*, 14, 100113
3. CA Graham, H Shamkhalichenar, VE Browning, VJ Byrd, MT Gutierrez-Wing, Y Liu, N Novelo, JW Choi, TR Tiersch (2022). A practical evaluation of machine learning for classification of ultrasound images of ovarian development in channel catfish (*Ictalurus punctatus*) *Aquaculture*, 552, 738039
4. EF Austin, CP Kearney, PJ Chacon, SA Wingses, P Acharya, JW Choi (2022). A fabricated force glove that measures hand forces during activities of daily living. *Sensors*, 22(4), 1330
5. JY Park, RL Pérez, CE Ayala, SR Vaughan, IM Warner, JW Choi (2022). A miniaturized quartz crystal microbalance measurement system based on a phase-locked loop circuit. *Electronics*, 11(3), 358

VIII.B-2. APPOINTMENT WITH TENURE

Included herein is a request for the appointment of Dr. Amy J. Clarke to Michigan Tech's faculty in the Department of Materials Science and Engineering under the umbrella of the College of Engineering as a Professor with tenure effective July 1, 2023.

Dr. Amy Clarke's tenure dossier was reviewed by the Promotion and Tenure Committee in the Department of Materials Science and Engineering, the chair of the Department of Materials Science and Engineering, the College of Engineering Promotion and Tenure Committee, the dean of the College of Engineering, the Provost, and the President. All recommended appointment with tenure.

Dr. Amy Clarke is currently the John Henry Moore Endowed Chair of Metallurgical and Materials Engineering at the Colorado School of Mines. Dr. Clarke earned her PhD from the Colorado School of Mines in 2006.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointment of Dr. Amy J. Clarke as Professor with tenure in the Department of Materials Science and Engineering effective July 1, 2023, conditioned upon mutual agreement to terms and conditions of employment.



Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Jacqueline E. Huntoon, Provost & Senior Vice President for Academic Affairs *Jacqueline E Huntoon*

COPY: Andrew Storer, Interim Provost & Sr. VP for Academic Affairs effective July 1, 2022

DATE: June 30, 2022

SUBJECT: Recommendation for Tenure

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following incoming faculty have been recommended for tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their August 4, 2022 meeting. If approved, the promotions will be effective as noted below.

Professor with Tenure

Jin W. Choi	Electrical & Computer Engineering	08/15/2022
Amy J. Clarke	Materials Science & Engineering	07/01/2023
Kester D. Clarke	Materials Science & Engineering	07/01/2023

APPROVED:

Richard Koubek, President

7/6/22

Date

INFORMATION SHEET FOR BOARD OF TRUSTEES

Amy J. Clarke
Colorado School of Mines

Amy J. Clarke, who is currently a professor with tenure in the Department of Metallurgical and Materials Engineering at the Colorado School of Mines, is considering moving to Michigan Tech. She is being considered for Professor with Tenure in the Department of Materials Science and Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2006	Colorado School of Mines, Golden, CO
M.S.	2002	Colorado School of Mines, Golden, CO
B.S.	2000	Michigan Technological University, Houghton, MI

Professional Record:

2021 – present	John Henry Moore Endowed Chair of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, CO
2019-present	Scientist/Joint Appointment, Pacific Northwest National Laboratory, Richland, WA
2016-present	Scientist/Joint Appointment, Los Alamos National Laboratory, Los Alamos, NM
2016-2021	Associate Professor, Colorado School of Mines, Golden, CO
2010-2016	Scientist, Los Alamos National Laboratory, Los Alamos, NM
2009-2010	Postdoctoral Research Associate, Los Alamos National Laboratory, Los Alamos, NM
2008 – 2009	Senior Engineer, Caterpillar, Mossville, IL
2006-2008	Postdoctoral Research Associate, Los Alamos National Laboratory, Los Alamos, NM
2000-2006	Graduate Research Assistant, Colorado School of Mines, Golden, CO

Summary of Accomplishments:

- Teaching

Colorado School of Mines has a rigorous annual review of faculty members, part of which is teaching effectiveness. We received student evaluation summaries and the Department Chair's evaluation of teaching for 2016-17 through 2019-20. Amy has been an effective teacher, and has continuously improved the courses that she teaches. Student evaluations have been typically in the 4.1-4.5 range (out of 5). Department Chair evaluations of teaching for two of those four years were "Exceeds Expectations", with one "Meets Expectations" and one "Satisfactory". We expect that Amy will continue to be a very effective teacher.

- Research/Scholarly Activity

Quite simply, Amy Clarke is one of the leading materials researchers in the world, and she could get a job at any university in the country. Recommendation letters from 6 very prestigious reviewers, including two members of the National Academy of Engineering, attest to this. Highlights:

- Received over \$50 million in research funding as PI or Co-PI at Mines since 2016, with over \$10 million in proposals currently under review
- Co-Director of NSF-Industry Center funded mainly by industry at \$2.5 million per year
- Co-PI of 5-year Office of Naval Research Multi-University Research Initiative on Additive Manufacturing, funded at \$7.5 million (\$1.5 million to Mines)

- Recipient of ultra-prestigious NSF Presidential Career Award for Scientists and Engineers (PECASE). This is the highest award bestowed by the federal government or one of its agencies for early career scientists and engineers, with only 21 awards in that year across all fields of science and engineering supported by the National Science Foundation
- Recipient of Early Career Awards from the Office of Naval Research and the Department of Energy
- Fellow of ASM International. Typically, around 20 Fellows are approved each year in a society with around 20,000 members
- Recipient of prestigious TMS Brimacombe Medal “For profound and lasting contributions to materials science through the use of advanced techniques, educating and mentoring the next generation, and dedicated service to TMS.”
- Over 150 refereed publications
- Google Scholar “h-index” of 31. This means that 31 of her papers have been cited at least 31 times by researchers in their own papers.
- Her papers have been cited by others in their papers over 3,900 times (per Google Scholar)
- Her PhD thesis was the foundational research for a new heat treatment process called “Quenching and Partitioning” that has led to low cost, high strength steels. The top five papers from this research have been cited 446, 326, 196, 186 and 141 times by other researchers
- Over 100 invited or keynote presentations
- Advise(d) 6 postdocs, 37 graduate students, 3 non-thesis graduate students, 3 visiting international graduate students, 18 undergraduate students, and 18 undergraduate researchers since 2016 at Mines. Serve(d) on 62 thesis committees (33 have graduated to date), and as an external examiner for 6 students in Australia, Brazil, Canada, Finland, and Spain

- Service

Amy Clarke has been extraordinarily active in service activities for her Department, College, University, and international research community. The “Service” portion of her resume is 5 pages long, single-spaced. Highlights:

- Editor, Metallurgical and Materials Transactions A, a prestigious journal in the materials field
- Chair of Advanced Photon Source (APS) Users Group at Argonne National Laboratory
- Organizer or Co-Organizer of over 70 research symposia or conferences
- Member of Board of Directors for of both the Association for Iron and Steel Technology (AIST) and The Minerals, Metals and Materials Society (TMS)
- Leadership roles on Diversity, Equity and Inclusion teams for her Department, for her University, for TMS, and for AIST.
- Chapter Chair, ASM International Los Alamos Chapter
- She is regularly invited by federal funding agencies to participate in “brainstorming” meetings to discuss future challenges and funding directions
- Member of the External Advisory Boards for both the Michigan Tech College of Engineering and the Department of Materials Science and Engineering

- Recent and Significant Publications/Exhibitions/Performances/Etc.

This was covered in the Research/Scholarly Activity section. She has over 150 refereed publications that have been cited by other researchers over 3,900 times.

VIII.B-3. APPOINTMENT WITH TENURE

Included herein is a request for the appointment of Dr. Kester D. Clarke to Michigan Tech's faculty in the Department of Materials Science and Engineering under the umbrella of the College of Engineering as a Professor with tenure effective July 1, 2023.

Dr. Kester Clarke's tenure dossier was reviewed by the Promotion and Tenure Committee in the Department of Materials Science and Engineering, the chair of the Department of Materials Science and Engineering, the College of Engineering Promotion and Tenure Committee, the dean of the College of Engineering, the Provost, and the President. All recommended appointment with tenure.

Dr. Kester Clarke is currently the Forging Industry Education and Research Foundation (FIERF) Associate Professor in the Department of Metallurgical and Materials Engineering at the Colorado School of Mines. Dr. Clarke earned his PhD from the Colorado School of Mines in 2008.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointment of Dr. Kester D. Clarke as Professor with tenure in the Department of Materials Science and Engineering effective July 1, 2023, conditioned upon mutual agreement to terms and conditions of employment.



Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Jacqueline E. Huntoon, Provost & Senior Vice President for Academic Affairs *Jacqueline E Huntoon*

COPY: Andrew Storer, Interim Provost & Sr. VP for Academic Affairs effective July 1, 2022

DATE: June 30, 2022

SUBJECT: Recommendation for Tenure

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following incoming faculty have been recommended for tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their August 4, 2022 meeting. If approved, the promotions will be effective as noted below.

Professor with Tenure

Jin W. Choi	Electrical & Computer Engineering	08/15/2022
Amy J. Clarke	Materials Science & Engineering	07/01/2023
Kester D. Clarke	Materials Science & Engineering	07/01/2023

APPROVED:

Richard Koubek, President

7/6/22

Date

INFORMATION SHEET FOR BOARD OF TRUSTEES

Kester D. Clarke
Colorado School of Mines

Kester D. Clarke, who is currently an associate professor with tenure in the Department of Metallurgical and Materials Engineering at the Colorado School of Mines, is considering moving to Michigan Tech. He is being considered for Professor with Tenure in the Department of Materials Science and Engineering in the College of Engineering.

Academic Degrees:

Ph.D.	2008	Colorado School of Mines, Golden, CO
M.S.	2002	Colorado School of Mines, Golden, CO
B.S.	1999	Wayne State University, Detroit, MI (Materials Science and Engineering)
B.A.	1995	Indiana University, Bloomington, IN (Psychology)

Professional Record:

2021 – present	Forging Industry Education and Research Foundation (FIERF) Associate Professor, Metallurgical and Materials Engineering, Colorado School of Mines, Golden, CO
2018-present	Scientist/Joint Appointment, Pacific Northwest National Laboratory, Richland, WA
2016-present	Scientist/Joint Appointment, Los Alamos National Laboratory, Los Alamos, NM
2016-2021	FIERF Assistant Professor, Colorado School of Mines, Golden, CO
2011-2016	Engineer/Scientist, Los Alamos National Laboratory, Los Alamos, NM
2009-2011	Postdoctoral Research Associate, Los Alamos National Laboratory, Los Alamos, NM
2008 – 2009	Senior Engineer, Caterpillar, Mossville, IL
2004-2008	Graduate Research Assistant, Colorado School of Mines, Golden, CO
2002-2004	Metallurgical Engineer, Engel Metallurgical, Sauk Rapids, MN
2000-2002	Graduate Research Assistant, Colorado School of Mines, Golden, CO
1998-1999	Engineering Associate, Climax Research Services, Wixom, MI

Summary of Accomplishments:

• Teaching

Colorado School of Mines has a rigorous annual review of faculty members, part of which is teaching effectiveness. We received student evaluation summaries and the Department Chair's evaluation of teaching for 2016-17 through 2019-20. Kester has been an outstanding teacher. His average student evaluations for those four years have been 4.54 out of 5.0, and three recent alumni of the Department have told us that "Kester was the best teacher they had at Mines." Department Chair evaluations of teaching for those four years went from "Satisfactory" to "Exceeds Expectations" (twice) to "Exemplary". We expect that Kester will be one of the best teachers in the Department.

• Research/Scholarly Activity

Kester has also been a very strong researcher, and his productivity has accelerated in the last two years.

Highlights:

- 62 publications in refereed journals
- 113 total publications including refereed journals, conference proceedings, and book chapters
- His papers have been cited by others in their papers over 1,000 times (per Google Scholar)

- Google Scholar “h-index” of 20. This means that 20 of his papers have been cited at least 20 times by researchers in their own papers
- He has given 37 invited or keynote presentations on his research
- He has been awarded \$23 million in research funding at Mines as Principal Investigator or Co-Principal Investigator
- Of this \$23 million, \$19.4 million is from federal funding agencies
- He has \$5.5 million in research proposals currently under review
- He received the prestigious National Science Foundation CAREER award and research funding
- He received over \$6 million in Department of Energy funding during his time at Los Alamos National Laboratory
- He is heavily involved in an NSF-Industry Research Center at Mines that is funded mainly by industry at \$2.5 million per year
- He has successfully graduated 4 PhD students and 8 MS students, and currently advises 4 PhD students and 6 MS students that he pays for with his research funding

- Service

Kester Clarke has been very active in service activities for his Department, College, University, and international research community. This strength was pointed out by the external reviewers. Highlights:

- Key Reader, Metallurgical and Materials Transactions A, a prestigious journal in the materials field
- Organizer or Co-Organizer of over 40 research symposia or conferences
- Vice Chair of Forging Industry Education and Research Foundation (FIERF)
- Member of Board of Directors for of both the Association for Iron and Steel Technology (AIST) and FIERF
- Mines President’s council for Diversity, Inclusion & Access – Faculty Executive Team
- Consecutive leadership roles at ASM International Los Alamos Chapter: Webmaster, Secretary, Treasurer, Vice-Chair and Chair
- Has served on and had leadership roles on over 30 technical committees for ASM International, AIST, The Minerals, Metals and Materials Society (TMS), FIERF, The Forging Industry Association, The American Powder Metal Institute, The Forging Defense Research Consortium, and the International Deep Drawing Research Group.

- Recent and Significant Publications/Exhibitions/Performances/Etc.

Selected recent publications:

S-J. Lee, K.D. Clarke, “A Quantitative Investigation of Cementite Dissolution Kinetics for Continuous Heating of Hypereutectoid Steel”, Metallurgical and Materials Transactions A (2015)

K.D. Clarke, “Ferrous Metallurgy: Past, Present, and Future Developments”, Advanced Materials & Processes, Jan 2017, Vol. 175, pp. 25-28

F. DiGiacchino, E. Lucon, E.B. Mitchell, K.D. Clarke, D.K. Matlock, “Side-grooved Charpy Impact Testing: Assessment of Splitting and Fracture Properties of High-Toughness Plate Steels”, Engineering Fracture Mechanics, 252, 107842, July 2021

A.I. Saville, S.C. Vogel, A. Creuziger, J.T. Benzing, A.L. Pilchak, P. Nandwana, J. Klemm-Toole, K.D. Clarke, S.L. Semiatin, A.J. Clarke, “Texture Evolution as a Function of Scan Strategy and Build Height in Electron Beam Melted Ti-6Al-4V”, Additive Manufacturing, 46, 102118, Oct. 2021

VIII.B-4. APPOINTMENT WITH TENURE

Included herein is a request for the appointment of Dr. Ye Duan to Michigan Tech's faculty as a Professor with tenure effective August 1, 2022. Dr. Duan is joining Michigan Tech to serve as the chair of the Department of Computer Science under the umbrella of the College of Computing.

Dr. Ye Duan's tenure dossier was reviewed by the Promotion and Tenure Committee in the Department of Computer Science, the chair of the Department of Computer Science, the College of Computing Promotion and Tenure Committee, the dean of the College of Computing, the Provost, and the President. All recommended appointment with tenure.

Dr. Duan held a tenured appointment as an associate professor until August 1, 2022 at the University of Missouri. During his tenure at the University Missouri Dr. Choi was also an Inclusivity, Diversity, and Equity (IDE) Faculty Fellow, Director of Cognitive Internet of Things for Intelligent Communities – Industry Supported Consortium, and a core faculty member in the Institute of Data Science & Informatics. Dr. Choi earned his PhD from the State University of New York at Stony Brook in 2003. He assumed the duties of chair of the Department of Computer Science at Michigan Tech University August 1, 2022.

RECOMMENDATION: It is recommended that the Board of Trustees approves the appointment of Dr. Ye Duan as Professor with tenure in the Department of Computer Science effective August 1, 2022.



Office of the Provost and
Senior Vice President for Academic Affairs

Phone: (906) 487-2440
Fax: (906) 487-2935

TO: Richard Koubek, President

FROM: Andrew Storer, Interim Provost & Senior Vice President for Academic Affairs

DATE: July 18, 2022

SUBJECT: Recommendation for Tenure

In accordance with Board of Trustees Policy 6.4, Academic Tenure and Promotion, the following incoming faculty have been recommended for tenure. I have reviewed and support these recommendations and request that the Board of Trustees be asked to approve them at their August 4, 2022 meeting. If approved, the promotions will be effective as noted below.

Professor with Tenure

Ye Duan	Computer Science	08/01/2022
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APPROVED:

7/19/22

Richard Koubek, President

Date

INFORMATION SHEET FOR BOARD OF TRUSTEES
Ye Duan
Michigan Technological University

Ye Duan, who is currently an associate professor of computer science with tenure in the University of Missouri, is being considered for promotion to professor of computer science with tenure in the Department of Computer Science in the College of Computing at Michigan Technological University.

Academic Degrees:

Ph.D.	2003	State University of New York at Stony Brook, Computer Science, Stony Brook, NY
M.S.	1998	State University of New York at Stony Brook, Computer Science, Stony Brook, NY
M.S.	1996	Utah State University, Mathematics, Logan, UT
B.S.	1991	Peking University, Mathematics, Beijing, China

Professional Record:

2021 – present	IDE (Inclusivity, Diversity, and Equity) Faculty Fellow, University of Missouri
2020 – present	Associate Member, Siteman Cancer Center, Washington University at St. Louis
2018 – present	Director, Cognitive Internet of Things for Intelligent Communities – Industry Supported Consortium, University of Missouri
2009 – present	Associate Professor, Department of Computer Science, University of Missouri
2008 – present	Core Faculty, University of Missouri Institute of Data Science & Informatics
2007 – present	Affiliated Faculty, Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri
2003 – present	Director, Computer Graphics and Image Understanding Laboratory, University of Missouri
2003 – 2009	Assistant Professor, Department of Computer Science, University of Missouri

Summary of Accomplishments:

• Teaching

Ye Duan has taught various computer science courses such as Computer Vision, Computer Graphics, Image Processing, Machine Learning, Modeling and Animation, and Software Engineering, etc., as well as developed several new computer science courses such as 3D Computer Vision, and Physics-Based Modeling and Animation I & II. These courses all have good enrollments and have been well received by the students (e.g., with good student evaluations). Dr. Duan has had the privilege of advising and working with some very energetic and talented graduate and undergraduate students. For example, three students (one Ph.D. student and two undergraduate students) received the prestigious NSF Graduate Research Fellowship Award. A team formed by three graduate students from my lab recently won the Microsoft Imagine Cup 2020 North America Championship.

• Research/Scholarly Activity

Ye Duan’s general research area is Computer Vision, Machine Learning, Computer Graphics, Virtual and Augmented Reality, and Biomedical Imaging, with a special focus on 3D Deep Learning. He has also been collaborating with domain experts on applying 3D shape modeling and understanding techniques on biomedical imaging applications. He has published 145 papers (56 Journals, 89 Conferences) in top journals such as IEEE Transactions on Image Processing, IEEE Transactions on Visualization and Computer Graphics, IEEE Transactions on Circuits and Systems for Video Technology, IEEE Access, Computer Aided

Design, Computer Aided Geometry Design, Graphical Models, Computer and Graphics, etc. and top conferences such as IEEE Computer Vision and Pattern Recognition (CVPR), IEEE Visualization, IEEE Image Processing, IEEE Virtual Reality, ACM Symposium on Solid and Physical Modeling, IEEE Shape Modeling International etc. He has received grants from federal funding agencies such as NSF, NIH, DoE, DoEd, AFRL, NGA, ARL, as well as private foundation and industry, with a total funding amount of over \$6 million.

- Service

Ye Duan is currently an IDE (inclusion, diversity, equity) Faculty Fellow at University of Missouri and is actively participating activities to increase the recruitment and retention of underrepresented minority (URM) and women students, faculties, and staffs. He was the Conference Co-Chair of IEEE International Conference on Shape Modeling 2018 (SMI'18) in Lisbon, Portugal, and the Conference Chair and Organizer of IEEE International Conference on Shape Modeling 2019 (SMI'19) in Vancouver, BC. He is currently leading the Cognitive Internet of Things (IoT) for Intelligent Community-Industry Supported Consortium (ISC) at University of Missouri, which works with more than 50 industry companies to explore recent advances and disseminate state-of-the-art research conducted in University of Missouri, with a focus on novel cognitive computing, services, and technologies, to enable smart IoT applications related to: smart healthcare, manufacturing, transportation, and smart buildings.

- Recent and Significant Publications/Exhibitions/Performances/Etc.

1. Yuyan Li, Yuliang Guo, Zhixin Yan, Xinyu Huang, **Ye Duan**, and Liu Ren, "OmniFusion: 360 Monocular Depth Estimation via Geometry-Aware Fusion", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oral Presentation, 2022.
2. Laith Alzubaidi, Jinglan Zhang, Amjad J. Humaidi, Ayad Al-Dujaili, **Ye Duan**, Omran Al-Shamma, J. Santamaria, Mohammed A.Fadhel, Muthana Al-Amidie, and Laith Farhan, "Review of Deep Learning: Concepts, CNN Architectures, Challenges, Applications, Future Directions", Journal of Big Data, Springer, 2021.
3. Yuyan Li, Zhixin Yan, **Ye Duan**, and Liu Ren, "PanoDepth: A Two Stage Approach for Monocular Omnidirectional Depth Estimation", International Conference on 3D Vision (3DV), 2021.
4. Adil Al-Azzawi, Anes Ouadou, Max Highsmith, **Ye Duan**, John J. Tanner, Jianlin Cheng, "DeepCryoPicker: Fully Automated Deep Neural Network for Single Protein Particle Picking in cryo-EM", BMC Bioinformatics 2020.
5. Ming Ma, Xu Wang, **Ye Duan**, Scott H. Frey, and Xianfeng Gu, "Optimal Mass Transport Based Brain Morphometry for Patients with Congenital Hand Deformities", The Visual Computer, 2019.
6. Adil Al-Azzawi, Anes Ouadou, **Ye Duan** and Jianlin Cheng, "Auto3DCryoMap: An Automated Particle Alignment Approach for 3D cryo-EM Density Map Reconstruction", BMC Bioinformatics 2020.
7. Truc Le and **Ye Duan**, "PointGrid: A Deep Network for 3D Shape Understanding", IEEE Conference on Computer Vision and Pattern Recognition, Spotlight Presentation, 2018.
8. Brittany Morago, Giang Bui, Truc Le, Norbert Maerz, and **Ye Duan**, "Photograph-LIDAR Registration Methodology for Rock Discontinuity Measurement", IEEE Geoscience and Remote Sensing Letters, 2018.
9. Truc Le, Giang Bui, **Ye Duan**, "A Multi-view Recurrent Neural Network for 3D Mesh Segmentation", Computer and Graphics (Proc. International Conference on Shape Modeling), 2017.
10. Truc Le, **Ye Duan**, "A Primitive-based 3D Segmentation Algorithm for Mechanical CAD Models", Computer Aided Geometry Design (Proc. International Conference on Geometric Modeling and Processing), 2017.
11. Deshan Yang, Miao Zhang, Xiao Chang, Yabo Fu, Harold H. Li, Sasa Mutic, and **Ye Duan**, "A Method to Accurately Detect Landmark Pairs in the Images to Support Evaluation of Deformable Image Registration Methods", Medical Physics, 2017.

VIII.C. EMERITUS RANK

Recommendation for the granting of faculty emerita/emeritus status originates within the retiree's academic department and proceeds through the respective college. Once approved, the recommendation is presented to the Provost, and if successful, to the President of the University for presentation to the Board of Trustees.

RECOMMENDATION: It is recommended that the Board of Trustees approves the following emerita/emeritus appointments.

Dr. Kathleen A. Feigl, Professor Emerita
Department of Mathematical Sciences

Dr. Jeffrey B. Burl, Professor Emeritus
Department of Electrical and Computer Engineering

Dr. Michael Roggemann, Professor Emeritus
Department of Electrical and Computer Engineering

Dr. Franz X. Tanner, Professor Emeritus
Department of Mathematical Sciences



TO: Michigan Technological University Board of Trustees

FROM: Jiguang Sun, Chair, Department of Mathematical

DATE: Sciences 06/03/2022

SUBJECT: Recommendation for Emerita Status

The faculty of the Department of Mathematical Sciences voted on May 4 to request that the Michigan Technological University Board of Trustees name Kathleen A. Feigl as Professor Emerita upon her retirement on Jan. 10, 2022.

Dr. Feigl served for 22 years in the Dept. of Mathematical Sciences. She received her BS in Mathematics/Computer Sciences, Saint Xavier University (1985), MS in Applied Mathematics, Illinois Institute of Technology (1988), and PHD in Mathematics, Illinois Institute of Technology (1991). Dr. Feigl published over 80 papers, advised 6 Ph.D. students and had 20 funded research projects since 2000. She is currently an associate editor of Physics of Fluids, AIPP.

Approved

Jiguang Sun

Department Chair/School Dean

06/03/2022

Date

David J. Hammer

College Dean

6/6/2022

Date

Jacqueline E. Huntow

Provost and Senior Vice President for Academic Affairs

06/09/2022

Date

[Signature]

President

6/10/2022

Date



TO: Michigan Technological University Board of Trustees
FROM: Glen E. Archer, Principal Lecturer and Interim Chair
Department of Electrical and Computer Engineering
DATE: April 25 2022
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Electrical and Computer Engineering voted on April 5 2022, to request that the Michigan Technological University Board of Trustees name Jeffrey Burl as Professor Emeritus.

Dr. Burl began his 29 year-long career at Michigan Tech as an Assistant Professor in 1993 shortly after his service at the Naval Post Graduate School in Monterey California. He published a textbook in Linear Optimal Control in 1999 that is still in use today at Stanford University. He was promoted to Associate Professor in 1999. He was the advisor for the first student who was awarded a PhD in Electrical Engineering at Michigan Tech and has successfully advised seven more PhD graduates. He was selected to be a member of the Michigan Tech Academy of Teaching Excellence in 2011 for his innovative multidisciplinary course in Hybrid Electric Vehicles. He was the faculty advisor for the Eta Kappa Nu Electrical Engineering Honorary Society, the Director of the AMJOCH Observatory from 2009 to 2013, and served as the ECE Department’s representative to the University Senate. Dr. Burl has been the PI or Co-PI on \$2.5M in projects. He is the author of 42 refereed Journal Articles and was awarded the Erskine Fellowship to attend the University of Canterbury in New Zealand.

Approved

Glen Archer Digitally signed by Glen Archer
Date: 2022.05.02 12:03:14 -04'00'

Department Chair

_____ Date

Janet Callahan Digitally signed by Janet Callahan
Date: 2022.05.03 09:26:56 -04'00'

College Dean

_____ Date

Jacqueline E. Huntoon Digitally signed by Jacqueline E. Huntoon
Date: 2022.05.03 11:28:15 -04'00'

Provost and Senior Vice President for Academic Affairs

_____ Date

Richard J. Koubek Digitally signed by Richard J. Koubek
Date: 2022.05.03 10:36:59 -05'00'

President

_____ Date



TO: Michigan Technological University Board of Trustees
FROM: Glen E. Archer, Principal Lecturer and Interim Chair
Department of Electrical and Computer Engineering
DATE: April 25 2022
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Electrical and Computer Engineering voted on April 5 2022, to request that the Michigan Technological University Board of Trustees name Michael Roggemann as Professor Emeritus.

Dr. Roggemann began his 26 year-long career at Michigan Tech as an Associate Professor in 1996 shortly after his retirement from the United States Air Force as a faculty member at the Air Force Institute of Technology. He published an optics textbook, "Imaging Through Turbulence" in 1996 that is still in use today. He and was tenured and simultaneously promoted to Professor in 1999. He has successfully advised 14 PhD graduates and 29 Masters graduates. He was the faculty advisor for the Archery and Pistol Clubs. Dr. Roggemann has been the PI or Co-PI on \$13.2M in projects for the Department of Defense and other agencies. He is the author of 35 refereed articles, was selected for the University Research Award in 1999 and featured on the "Weather Channel" debunking the mystery of the Paulding Lights in 2014.

Approved

Department Chair

Date

College Dean

Date

Provost and Senior Vice President for Academic Affairs

Date

President

Date

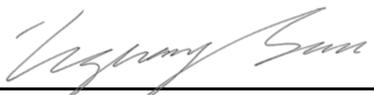
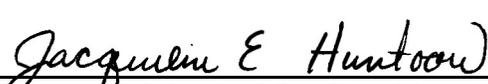


TO: Michigan Technological University Board of Trustees
FROM: Jiguang Sun, Chair, Department of Mathematical
DATE: Sciences 06/3/2022
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Mathematical Sciences voted on May 4 to request that the Michigan Technological University Board of Trustees name Franz X. Tanner as Professor Emeritus upon his retirement on Jan. 10, 2022.

Dr. Tanner served for 22 years in the Dept. of Mathematical Sciences. He received his BS in Mathematics & Physics, University of Manchester (1980), MA. Mathematics, Arizona State University (1982), and PHD in Applied Mathematics, University of Illinois (1988). Dr. Tanner published over research 100 papers, advised 12 Ph.D. students and had 25 funded research projects since he joined MTU.

Approved

 _____ Department Chair/School Dean	<u>06/30/2022</u> Date
 _____ College Dean	<u>6/6/2022</u> Date
 _____ Provost and Senior Vice President for Academic Affairs	<u>06/09/2022</u> Date
 _____ President	<u>6/10/2022</u> Date

VIII-D. APPOINTMENT OF TREASURER

Public Act 70 of 1885 as amended in 1963 states that no member of the Board of Control can serve as secretary or treasurer and that the Board elect a secretary and treasurer to serve at their pleasure.

As Ms. Susan Kerry resigned on June 30, 2022, it is being recommended that the Board appoint a Treasurer effective August 4, 2022.

Included here is the nomination for the position of Treasurer.

RECOMMENDATION: That the Board of Trustees appoint Julie Seppala as the Treasurer of the Board of Trustees effective August 4, 2022.

Supporting information

Julie H. Seppala has served as the Associate Vice President for Finance since 2017, as the Executive Director of Financial Services & Operations from 2013 to 2017, after holding several management positions in Research & Sponsored Programs from 1994 to 2016. Seppala currently serves as the Treasurer of the Michigan Tech Fund and oversees financial functions of the University and the Michigan Tech Fund; including financial reporting, investment and treasury management, bond issuance and compliance, accounting functions of accounts payable, accounts receivable, insurance, property, purchasing, travel and tax; and oversees all audits conducted by external auditors. Prior to coming to Michigan Tech, Seppala worked at Northern Michigan University as an Accountant and was responsible for their grant and contract accounting and assisted in overseeing the accounts payable functions. She received her B.S. in Accounting in 1988.

VIII-E. RESOLUTION TO APPROVE SALE OF SURPLUS PROPERTY

The Department of Geological and Mining Engineering and Sciences would like to sell a Drill Rig no longer used by the Department. The Drill Rig, a pre-owned 2011 Epiroc ROC T20W Light, was purchased in 2019 for \$98,391. The current book value of the equipment is \$72,622.

The Department is requesting approval to sell the Drill Rig because difficulties in finding suitable student project locations and means of transport have made the Drill Rig impractical to use.

RECOMMENDATION: that the Board of Trustees approves the future sale of the 2011 Epiroc ROC T20W Light Drill Rig at a fair market price.

VIII-F. REVISIONS TO BOARD POLICIES

David Reed, Vice President for Research

1. Revisions to Board Policy 11.4 - Banking Relationships
2. Revisions to Board Policy 11.7 - Policy Regarding Non-Mandatory Transfers
3. Revisions to Board Policy 11.9 - Policy Regarding Capital Additions
4. Revisions to Board Policy 11.10 - Cost Overruns/Special Maintenance Projects
5. Revisions to Board Policy 11.11 - Disposal of Surplus Property
6. Revisions to Board Policy 11.13 - Signing Contracts and Other Legal Documents

VIII-F. 1. Revisions to Board Policy 11.4 - Banking Relationships

It is recommended that Board Policy 11.4 - Banking Relationships, be revised to allow for a designee of an officer to participate in certain banking transactions.

RECOMMENDATION: That the Board of Trustees revises Board Policy 11.4 Banking Relationships.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.4

PURPLE= ADD

~~STRIKETHROUGH~~ = DELETE

11.4 Banking Relationships

Transactions with the following financial institutions, any successor by merger, or any other hereafter designated by the Board are authorized:

- Bank of America
- Fifth Third Bank
- Michigan Tech Employees Federal Credit Union
- Citizens Bank
- River Valley Bank
- Range Bank
- The Superior National Bank & Trust Company of Hancock
- Wells Fargo
- Miners State Bank
- Associated Bank

Authorized Signatories

For all Banks, any one of the following University Officers **or designee of any one plus an officer** for up to \$25,000 (Twenty-Five Thousand Dollars):

Board of Trustees Secretary

Board of Trustees Treasurer

President

and countersigned by any one of the above University Officers **or designee of any one plus an officer** for amounts greater than ~~\$25,000 (Twenty-Five Thousand Dollars)~~ \$50,000 (Fifty Thousand Dollars) Any draw of funds from the University line of credit must be promptly reported to the Board of Trustees Chairperson. Any draw from the line of credit exceeding five million dollars must be approved by the Chairperson(s) of the Board of Trustees and of the Audit and Finance Committee.

THE AMENDED POLICY 11.4 SHALL READ AS FOLLOWS:

11.4 Banking Relationships

Transactions with the following financial institutions, any successor by merger, or any other hereafter designated by the Board are authorized:

- Bank of America
- Fifth Third Bank
- Michigan Tech Employees Federal Credit Union
- Citizens Bank
- River Valley Bank
- Range Bank
- The Superior National Bank & Trust Company of Hancock
- Wells Fargo
- Miners State Bank
- Associated Bank

Authorized Signatories

For all Banks, any one of the following University Officers or designee of any one plus an officer for up to \$25,000 (Twenty-Five Thousand Dollars):

Board of Trustees Secretary

Board of Trustees Treasurer

President

and countersigned by any one of the above University Officers or designee of any one plus an officer for amounts greater than \$50,000 (Fifty Thousand Dollars). Any draw of funds from the University line of credit must be promptly reported to the Board of Trustees Chairperson. Any draw from the line of credit exceeding five million dollars must be approved by the Chairperson(s) of the Board of Trustees and of the Audit and Finance Committee.

VIII-F.2. 11.7 Policy Regarding Non-Mandatory Transfers

It is recommended that Board Policy 11.7 - Policy Regarding Non-Mandatory Transfers, be revised to increase the authorized non-mandatory transfers amounts as well as to include the language "or designee" and "or Secretary if Treasurer position vacant." This added language and increased amounts will assist with business efficiency and future transitions of officers.

RECOMMENDATION: That the Board of Trustees revises Board Policy 11.7 Policy Regarding Non-Mandatory Transfers.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.7

PURPLE= ADD

~~STRIKETHROUGH~~ = DELETE

11.7 Policy Regarding Non-Mandatory Transfers

The Audit and Finance Committee of the Board of Trustees will review, as part of the review of the audited financial statements, all non-mandatory transfers in excess of \$500,000 that have not been approved as part of the annual operating budget. Non-mandatory transfers under \$50,000, there is no special authority needed. Non-mandatory transfers ~~from \$25,000 to \$200,000~~ of \$50,000 to \$250,000 shall be approved by the Treasurer or designee, and non-mandatory transfers above ~~\$200,000~~ \$250,000 shall be approved by both the Treasurer (or Secretary if Treasurer position vacant) and the President of the University.

THE AMENDED POLICY 11.7 SHALL READ AS FOLLOWS:

11.7 Policy Regarding Non-Mandatory Transfers

The Audit and Finance Committee of the Board of Trustees will review, as part of the review of the audited financial statements, all non-mandatory transfers in excess of \$500,000 that have not been approved as part of the annual operating budget. Non-mandatory transfers under \$50,000, there is no special authority needed. Non-mandatory transfers of \$50,000 to \$250,000 shall be approved by the Treasurer or designee, and non-mandatory transfers above \$250,000 shall be approved by both the Treasurer (or Secretary if Treasurer position vacant) and the President of the University.

VIII-F.3. 11.9 Policy Regarding Capital Additions

It is recommended that Board Policy 11.9 - Policy Regarding Capital Additions, be revised to increase the authorized non-mandatory transfers amounts as well as to include the language "or designee." This added language and increased amounts will assist with future transitions of officers and business efficiency.

RECOMMENDATION: That the Board of Trustees revises Board Policy 11.07 Policy Regarding Non-Mandatory Transfers.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.9

PURPLE= ADD

~~STRIKETHROUGH~~ = DELETE

11.9 Policy Regarding Capital Additions

Approval by the Treasurer or designee is required for capital additions from \$50,000 to ~~\$250,000~~ \$500,000. Approval by the President is required for capital additions from ~~\$250,000~~ \$500,000 to ~~\$3,000,000~~ \$5,000,000

Board of Trustees approval is required for all capital additions in excess of ~~\$3,000,000~~ \$5,000,000. All capital additions for which a project-specific state appropriation has been made must, in addition to Board of Trustees approval if above required, be approved as required by the applicable legislation and the appropriate legislative committee or subcommittee, if any. Capital additions include but are not limited to maintenance, remodeling, additions, land acquisition, utility, landscaping, equipment, telecommunications, roads and parking.

THE AMENDED POLICY 11.9 SHALL READ AS FOLLOWS:

11.9 Policy Regarding Capital Additions

Approval by the Treasurer or designee is required for capital additions from \$50,000 to \$500,000. Approval by the President is required for capital additions from \$500,000 to \$5,000,000

Board of Trustees approval is required for all capital additions in excess of \$5,000,000. All capital additions for which a project-specific state appropriation has been made must, in addition to Board of Trustees approval if above required, be approved as required by the applicable legislation and the appropriate legislative committee or subcommittee, if any. Capital additions include but are not limited to maintenance, remodeling, additions, land acquisition, utility, landscaping, equipment, telecommunications, roads and parking.

VIII-F.4. Policy 11.10 Cost Overruns/Special Maintenance Projects

It is recommend that Board Policy 11.10 - Cost Overruns/Special Maintenance Projects, be revised to include the language "or designee." This added language will enhance bsuiness efficiency.

RECOMMENDATION: That the Board of Trustees revises Board Policy 11.10 Cost Overruns/Special Maintenance Projects.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.9

PURPLE= ADD

~~STRIKETHROUGH~~ = DELETE

11.10 Cost Overruns/Special Maintenance Projects

The Treasurer ~~or designee~~ has discretionary authority to approve overruns on Board authorized special maintenance projects up to 10% of any single project cost up to a maximum project overrun of \$50,000 and subject to the availability of funds for the project overrun in question.

THE AMENDED POLICY 11.10 SHALL READ AS FOLLOWS:

11.10 Cost Overruns/Special Maintenance Projects

The Treasurer or designee has discretionary authority to approve overruns on Board authorized special maintenance projects up to 10% of any single project cost up to a maximum project overrun of \$50,000 and subject to the availability of funds for the project overrun in question.

VIII-F.5. Policy 11.11 Disposal of Surplus Property

It is recommend that Board Policy 11.11 Disposal of Surplus Property, be revised to include the language "or designee." This added language will enhance business efficiency.

RECOMMENDATION: That the Board of Trustees revises Board Policy 11.11 Disposal of Surplus Property.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.11

PURPLE= ADD

~~STRIKETHROUGH~~ = DELETE

11.11 Disposal of Surplus Property

1. Surplus equipment and materials may be disposed of to the highest bidder, subject to the following:
 - a. Items valued at \$50,000 or less, in aggregate may be offered, subject only to subsequent reporting to the Board.
 - b. Disposal of items valued in excess of \$50,000 in aggregate requires prior Board of Trustees approval.
 - c. Items may be disposed of to a governmental agency or other educational institution at fair market value prior to offering on a bid basis with the approval of the Treasurer or designee.
 2. Those items which are surplus, obsolete or unusable, if such items clearly have insufficient value to warrant an effort to dispose of them on a bid basis, may be sold as scrap or junk at a price believed in good faith by the ~~Manager~~ Director of Purchasing to be the reasonable market value thereof, or if not salable may be discarded in the most economical manner feasible. Disposal of all scrapped or junked equipment and materials shall be reported to the Board of Trustees subsequent to its disposal.
 3. The ~~Manager~~ Director of Purchasing, or its designee, is authorized to sell, on first come-first served basis, surplus equipment and materials which are impractical to dispose of on a bid basis, without prior Board of Trustees approval, subject only to subsequent reporting to the Board and receipt of a price believed in good faith by the ~~Manager~~ Director of Purchasing to be the reasonable market value thereof.
-

THE AMENDED POLICY 11.11 SHALL READ AS FOLLOWS:

11.11 Disposal of Surplus Property

1. Surplus equipment and materials may be disposed of to the highest bidder, subject to the following:
 - a. Items valued at \$50,000 or less, in aggregate may be offered, subject only to subsequent reporting to the Board.
 - b. Disposal of items valued in excess of \$50,000 in aggregate requires prior Board of Trustees approval.
 - c. Items may be disposed of to a governmental agency or other educational institution at fair market value prior to offering on a bid basis with the approval of the Treasurer or designee.
2. Those items which are surplus, obsolete or unusable, if such items clearly have insufficient value to warrant an effort to dispose of them on a bid basis, may be sold as scrap or junk at a price believed in good faith by the Director of Purchasing to be the reasonable market value thereof, or if not salable may be discarded in the most economical manner feasible. Disposal of all scrapped or junked equipment and materials shall be reported to the Board of Trustees subsequent to its disposal.
3. The Director of Purchasing, or its designee, is authorized to sell, on first come-first served basis, surplus equipment and materials which are impractical to dispose of on a bid basis, without prior Board of Trustees approval, subject only to subsequent reporting to the Board and receipt of a price believed in good faith by the Director of Purchasing to be the reasonable market value thereof.

VIII-F.6. Policy 11.13 Signing Contracts and Other Legal Documents

It is recommended that Board Policy 1.13 Signing Contracts and Other Legal Documents, be revised to increase the fair market value cap amounts as well as to include the title "General Counsel" where appropriate and to update titles. These changes are appropriate with the addition of General Counsel to staff and for business efficiency.

RECOMMENDATION: That the Board of Trustees revises Board Policy 1.13 Signing Contracts and Other Legal Documents.

PROPOSED REVISION TO BOARD OF TRUSTEES POLICY 11.13

PURPLE= ADD

STRIKETHROUGH = DELETE

11.13 Signing Contracts and Other Legal Documents

The President of the University, pursuant to his general authority and responsibility for the operation of the University and in accord with the General Policies laid down by the Board may execute any documents unless they go beyond or deviate from the Board's established objectives. The Chair, the Vice Chair, the Secretary, and the Treasurer of the Board are authorized to sign and execute documents within their general powers as officers, or in certain cases, under specific authority.

The following types of specific agreements may be executed only by the officers or persons noted unless otherwise designated by the President or requiring Board of Trustees approval.

1. Employee Patent Agreement, Employee Patent, Research and Proprietary Rights Agreement, Adjunct Professor Patent, and Proprietary Rights Agreement, Graduate Student Patent, Research and Proprietary Rights Agreement: President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, **General Counsel**, or Treasurer, provided that the President or Treasurer may delegate the authority in writing to any member of the staff.
2. Licenses for patents or technology owned by the University, including licenses and options for licenses contained in research and other agreements: President, Provost and Senior Vice President for Academic Affairs, **General Counsel**, Treasurer, or Vice President for Research **or designee**.
3. Technology transfer agreements: President, Provost and Senior Vice President for Academic Affairs, **General Counsel**, Treasurer, or Vice President for Research **or designee**.
4. Non-disclosure Agreements, including for purposes of the Freedom of Information Act; confidential Research and Investment Information Act; Uniform Trade Secrets Acts and any other State or Federal Law or Regulation relating to disclosure or non-disclosure: President, Provost and Senior Vice President for Academic Affairs, **General Counsel**, Treasurer, Vice President for Research, or ~~Director of Innovation and Commercialization~~ **their other written designee**.
5. Software and trademark licenses from or to another party: President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, Chief Information Officer, Director of Innovation and Commercialization, Treasurer, or those staff members designated in writing by the Treasurer.
6. Easements received from another party: President, Secretary, or Treasurer.

7. Rentals and leases, to and from other parties:

President, Chief Financial Officer, Vice President for Research, Secretary, or Treasurer, provided that the Treasurer may delegate in writing, to any staff member the authority to execute agreements for room and board and apartment rentals.

8. Research, training, educational, and other sponsored activities proposed, gift requests, agreements and grant applications requiring assurance of compliance with federal and/or state law, including subcontracts/agreements and service agreements related to these agreements: President, Vice President for Research, Provost and Senior Vice President for Academic Affairs, , Secretary, Treasurer, provided that the Vice President for Research may delegate in writing, to any staff member, the authority to execute such documents.

9. Labor agreements with Local 1166, AFSCME and Local 5000, UAW:

President, Chief Financial Officer, ~~or Director~~ Chief of Human Resources ~~Officer~~, or General Counsel.

10. Educational and International agreements:

President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

11. Agreements for payment of tuition, fees, room or board by domestic and foreign organizations: President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

12. Purchase order for services, including personal services for University enrichment, supplies, or equipment:

President, Provost and Senior Vice President for Academic Affairs, Treasurer, or ~~Manager~~ Director of Purchasing, or those staff members designated in writing by the ~~Manager~~ Director of Purchasing with the approval of the Treasurer. Purchase requisitions must be signed or countersigned by the Treasurer and/or President when required by the Board policy relating to capital additions.

13. Dispositions of real property:

The President may sell and execute deeds of conveyance of real property, including easements, having a fair market value of ~~\$3,000,000~~ 5,000,000 or less.

The President, Chief Financial Officer, Secretary, or Treasurer may sell and execute deeds of conveyance of real property, including easements, having a fair market value of in excess of ~~\$3,000,000~~ 5,000,000 only upon formal approval of the Board of Trustees.

14. Capital outlay projects funded by special state appropriations:

President, Chief Financial Officer, Treasurer, or any staff member designated in writing by the Treasurer.

15. Casualty and property insurance:

President, Secretary, or Treasurer provided that the President or Treasurer may delegate this authority in writing, to any staff member.

16. Employee benefits:

President, Chief Financial Officer, [Secretary](#), or Treasurer provided that the President, Chief Financial Officer, [Secretary](#), or Treasurer, may delegate this authority in writing, to any staff member.

17. Agreements with domestic governmental and foreign governmental organizations except those specifically mentioned earlier:

President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

18. Athletic agreements or contracts and contracts for game officials:

President, Vice President for Student Affairs, Athletic Director, or Department Chair of Kinesiology and Integrative Physiology.

19. Programmer and/or Analyst Proprietary Rights Agreement:

President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, Chief Financial Officer, or Treasurer, provided that the President, Vice President for Research, or Treasurer, may delegate this authority in writing, to any staff member.

20. United States Department of Treasury, Bureau of Alcohol Tobacco and Firearms annual report: President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

THE AMENDED POLICY 11.13 SHALL READ AS FOLLOWS:

11.13 Signing Contracts and Other Legal Documents

The President of the University, pursuant to his general authority and responsibility for the operation of the University and in accord with the General Policies laid down by the Board may execute any documents unless they go beyond or deviate from the Board's established objectives. The Chair, the Vice Chair, the Secretary, and the Treasurer of the Board are authorized to sign and execute documents within their general powers as officers, or in certain cases, under specific authority.

The following types of specific agreements may be executed only by the officers or persons noted unless otherwise designated by the President or requiring Board of Trustees approval.

1. Employee Patent Agreement, Employee Patent, Research and Proprietary Rights Agreement, Adjunct Professor Patent, and Proprietary Rights Agreement, Graduate Student Patent, Research and Proprietary Rights Agreement: President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, General Counsel, or Treasurer, provided that the President or Treasurer may delegate the authority in writing to any member of the staff.
2. Licenses for patents or technology owned by the University, including licenses and options for licenses contained in research and other agreements: President, Provost and Senior Vice President for Academic Affairs, General Counsel, Treasurer, or Vice President for Research or designee.
3. Technology transfer agreements: President, Provost and Senior Vice President for Academic Affairs, General Counsel, Treasurer, or Vice President for Research or designee.
4. Non-disclosure Agreements, including for purposes of the Freedom of Information Act; confidential Research and Investment Information Act; Uniform Trade Secrets Acts and any other State or Federal Law or Regulation relating to disclosure or non-disclosure: President, Provost and Senior Vice President for Academic Affairs, General Counsel, Treasurer, Vice President for Research, or their other written designee.
5. Software and trademark licenses from or to another party: President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, Chief Information Officer, Director of Innovation and Commercialization, Treasurer, or those staff members designated in writing by the Treasurer.
6. Easements received from another party: President, Secretary, or Treasurer.

7. Rentals and leases, to and from other parties:

President, Chief Financial Officer, Vice President for Research, Secretary, or Treasurer, provided that the Treasurer may delegate in writing, to any staff member the authority to execute agreements for room and board and apartment rentals.

8. Research, training, educational, and other sponsored activities proposed, gift requests, agreements and grant applications requiring assurance of compliance with federal and/or state law, including subcontracts/agreements and service agreements related to these agreements: President, Vice President for Research, Provost and Senior Vice President for Academic Affairs, , Secretary, Treasurer, provided that the Vice President for Research may delegate in writing, to any staff member, the authority to execute such documents.

9. Labor agreements with Local 1166, AFSCME and Local 5000, UAW:

President, Chief Financial Officer, Chief Human Resources Officer, or General Counsel.

10. Educational and International agreements:

President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

11. Agreements for payment of tuition, fees, room or board by domestic and foreign organizations: President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

12. Purchase order for services, including personal services for University enrichment, supplies, or equipment:

President, Provost and Senior Vice President for Academic Affairs, Treasurer, or Director of Purchasing, or those staff members designated in writing by the Director of Purchasing with the approval of the Treasurer. Purchase requisitions must be signed or countersigned by the Treasurer and/or President when required by the Board policy relating to capital additions.

13. Dispositions of real property:

The President may sell and execute deeds of conveyance of real property, including easements, having a fair market value of \$5,000,000 or less.

The President, Chief Financial Officer, Secretary, or Treasurer may sell and execute deeds of conveyance of real property, including easements, having a fair market value of in excess of \$5,000,000 only upon formal approval of the Board of Trustees.

14. Capital outlay projects funded by special state appropriations:

President, Chief Financial Officer, Treasurer, or any staff member designated in writing by the Treasurer.

15. Casualty and property insurance:

President, Secretary, or Treasurer provided that the President or Treasurer may delegate this authority in writing, to any staff member.

16. Employee benefits:

President, Chief Financial Officer, Secretary, or Treasurer provided that the President, Chief Financial Officer, Secretary, or Treasurer, may delegate this authority in writing, to any staff member.

17. Agreements with domestic governmental and foreign governmental organizations except those specifically mentioned earlier:

President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

18. Athletic agreements or contracts and contracts for game officials:

President, Vice President for Student Affairs, Athletic Director, or Department Chair of Kinesiology and Integrative Physiology.

19. Programmer and/or Analyst Proprietary Rights Agreement:

President, Provost and Senior Vice President for Academic Affairs, Vice President for Research, Chief Financial Officer, or Treasurer, provided that the President, Vice President for Research, or Treasurer, may delegate this authority in writing, to any staff member.

20. United States Department of Treasury, Bureau of Alcohol Tobacco and Firearms annual report: President, Provost and Senior Vice President for Academic Affairs, Secretary, or Treasurer.

VIII-G. MICHIGAN TECHNOLOGICAL UNIVERSITY/MICHIGAN TECH FUND AGREEMENT

Attached is the form of a proposed agreement for the University to continue the provision of space and services to the Michigan Tech Fund and for the Michigan Tech Fund to continue to receive and administer charitable gift assets for the University for the period July 1, 2022 to June 30, 2023.

RECOMMENDATION: That the Board of Trustees approves the Michigan Technological University/Michigan Tech Fund agreement as presented herein.

**AGREEMENT BETWEEN MICHIGAN TECHNOLOGICAL UNIVERSITY
AND THE MICHIGAN TECH FUND**

This Agreement made July 1, 2022 between Michigan Technological University (“University”) and the Michigan Tech Fund (“Fund”).

WHEREAS, the Fund’s work in receiving and managing charitable gift assets for the University is critical to its ability to fulfill its mission and strategic direction, and

WHEREAS, the Fund’s advocacy of the University’s mission and priorities constitutes a valuable service, and

WHEREAS, fundraising is a joint priority of the University and the Fund, and

WHEREAS, the University and the Fund desire to continue a heretofore existing arrangement:

IT IS AGREED:

1. In consideration of the support directly inuring to the benefit of the University from the activities of the Michigan Tech Fund, the University will provide to the Fund:
 - a. supporting services including mail services, limited printing services, access to the phone network, and internal audit services;
 - b. access to the Banner system for maintenance and upkeep of the alumni/development database.
2. The Fund agrees to continue its various fundraising administrative support and asset management functions for the betterment and advancement of the University. The Fund also agrees to support consulting services as done in the past.
3. This agreement shall terminate on June 30, 2023 and will be considered for renewal for successive one-year periods. The grant or denial of such renewal shall be at the sole discretion of the Board of Trustees of Michigan Technological University.

Michigan Technological University

Michigan Tech Fund

By:
Its:

By:
Its:

VIII-H. PRESIDENTIAL COMPENSATION

Consistent with the raise pool provided across campus, it is recommended that Dr. Koubek receive a four percent raise to his base salary, retroactive to July 1, 2022.

In addition, in appreciation for Dr. Koubek's exemplary performance, the Board of Trustees directs that \$45,000 be allocated to student scholarships to be wholly administered by the Michigan Tech Fund in honor of Dr. Richard and Valerie Koubek.

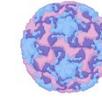
RECOMMENDATION: That the Board of Trustees awards Dr. Koubek a four percent increase to his base salary and that \$45,000 be allocated to student scholarships to be wholly administered by the Michigan Tech Fund in honor of Dr. Richard and Valerie Koubek.

IX. REPORTS

- A. The Making of a Vaccine**
Caryn Heldt, Director, Health Research Institute, James and Lorna Mack Endowed Chair of Cellular and Molecular Bioengineering, and Professor Chemical Engineering
- B. Athletic Accomplishments**
Suzanne Sanregret, Director of Athletics
- C. Advancement Report**
William Roberts, Vice President for Advancement & Alumni Engagement
- D. Student Affairs Report**
Wallace Southerland III, Dean of Students & Vice President for Student Affairs
- E. Undergraduate Student Government**
Cheyenne Scott, President
- F. Graduate Student Government**
Ranit Karmakar, President
- G. University Senate**
Steve Knudstup, Vice-President

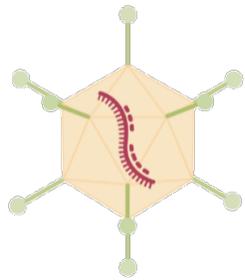
IX-A. The Making of a Vaccine

Caryn Heldt, Director, Health Research Institute, James and Lorna Mack Endowed Chair of Cellular and Molecular Bioengineering, and Professor Chemical Engineering

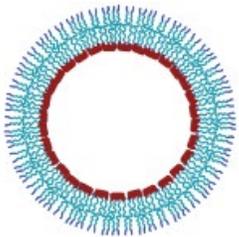
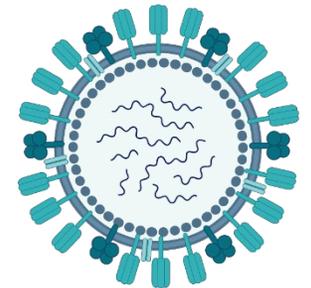


The Making of a Vaccine

Caryn Heldt, PhD



James and Lorna Mack Chair in Bioengineering
Director, Health Research Institute
Professor of Chemical Engineering
Affiliate Professor of Biological Sciences



Acknowledgments

Heldt Group

Current

Dr. Pratik Joshi

Dr. Ruby Alhajar

Oluwatoyin Areo

Seth Kriz

Natalie Nold

Vaishali Sharma

Sneha Singh

Bianca Mercado-Velez

Lynn Manchester

Ethan Burghardt (UG)

Ellie Sempek (UG)

Sheridan Waldack (UG)

Grace James (UG)

Maia Niedritis-Newkirk (UG)



Past Group Members

Dr. Xue Mi

Dr. Christa Meingast

Dr. Dylan Turpeinen

Dr. Maria Gencoglu

Dr. Saagar Vijayaragavan

Michigan Tech

Dr. Bruce Lee

Dr. Megan Frost

Dr. Bowen Li

Dr. Adrienne Minerick

Dr. Smitha Rao

Collaborators

UMass Amherst

Dr. Sarah Perry

Univ Minn

Dr. Sapna Surapria

St. Louis Univ

Dr. Silviya Zusiak

Johns Hopkins Univ

Dr. Michael Betenbaugh

Dr. Andrew Pekosz

RPI

Dr. R. Helen Zha

Dr. Edmund Palmero

Funding Sources



Michigan
Technological
University

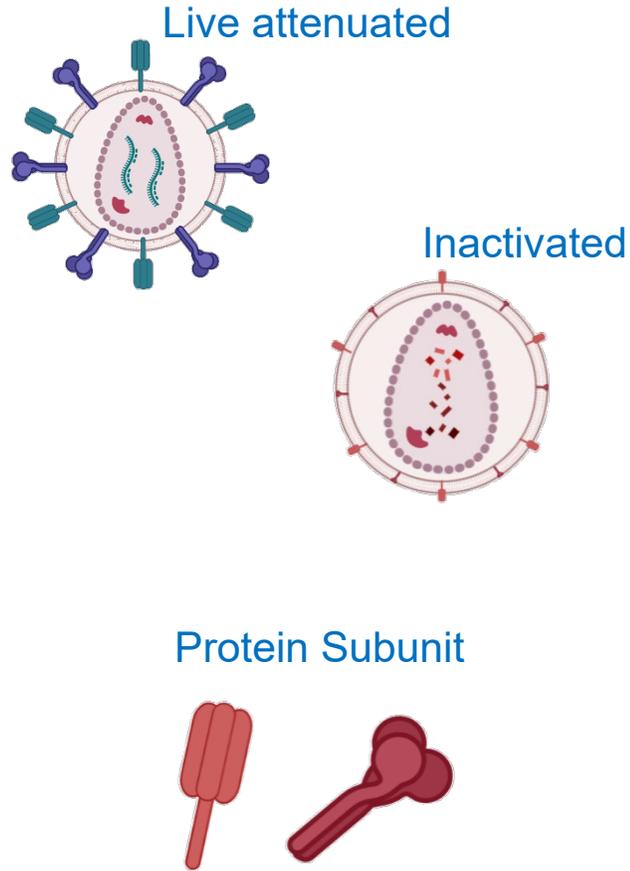


**Frederick G Cottrell
Foundation**

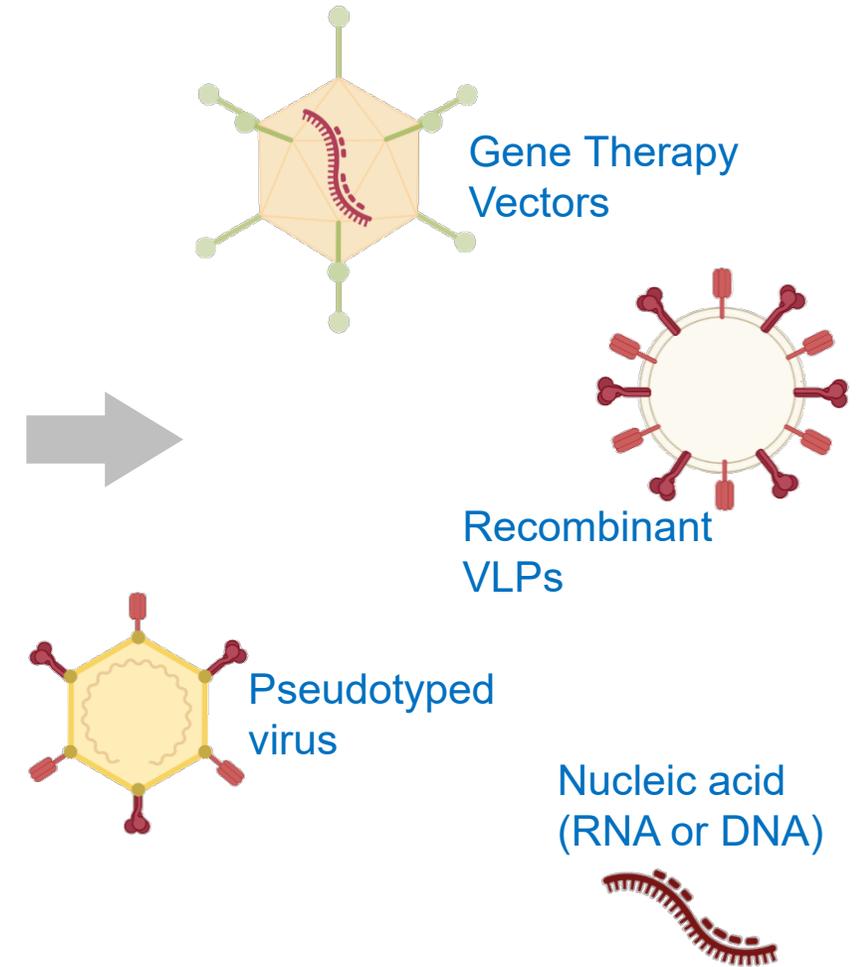
James & Lorna Mack Chair in Bioengineering

Viral-based vaccines

Traditional Vaccines



Modular Vaccines



Immune response:
Live attenuated > Inactivated > Subunit

Recommended vaccines through age 18

Subunit

- Hepatitis A & B
- Diphtheria, tetanus, and pertussis (DTaP)
- *Haemophilus influenzae* type b (Hib)
- Pneumococcal conjugate (PCV13)
- Meningococcal vaccines

Inactivated

- Polio
- Influenza

Live, attenuated

- Rotavirus
- Influenza
- Measles, mumps, rubella, and varicella-zoster (MMRV)
- Dengue virus

Virus like particles

- Human papillomavirus (HPV)

RNA vaccines

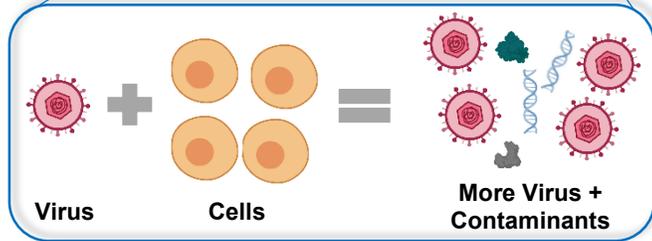
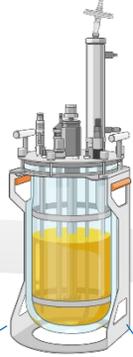
- SARS-CoV-2

How many flu vaccine doses can you get from one egg?

- A. 1
- B. 10
- C. 50
- D. 100

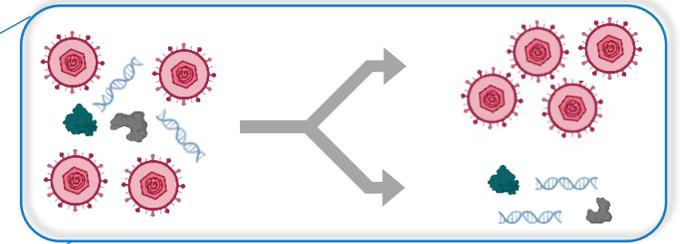
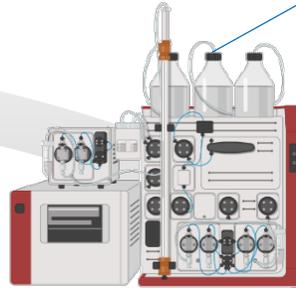
Vaccine Manufacturing

Upstream



- Mammalian cells
- Insect cell
- Yeast cell
- Bacterial cell

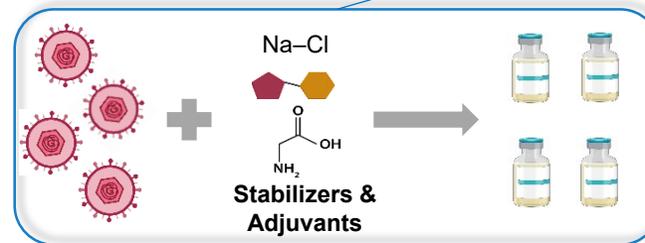
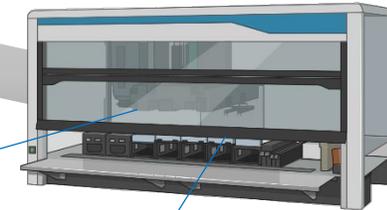
Downstream



70% Cost

<30% Recovery

Formulation



Upstream

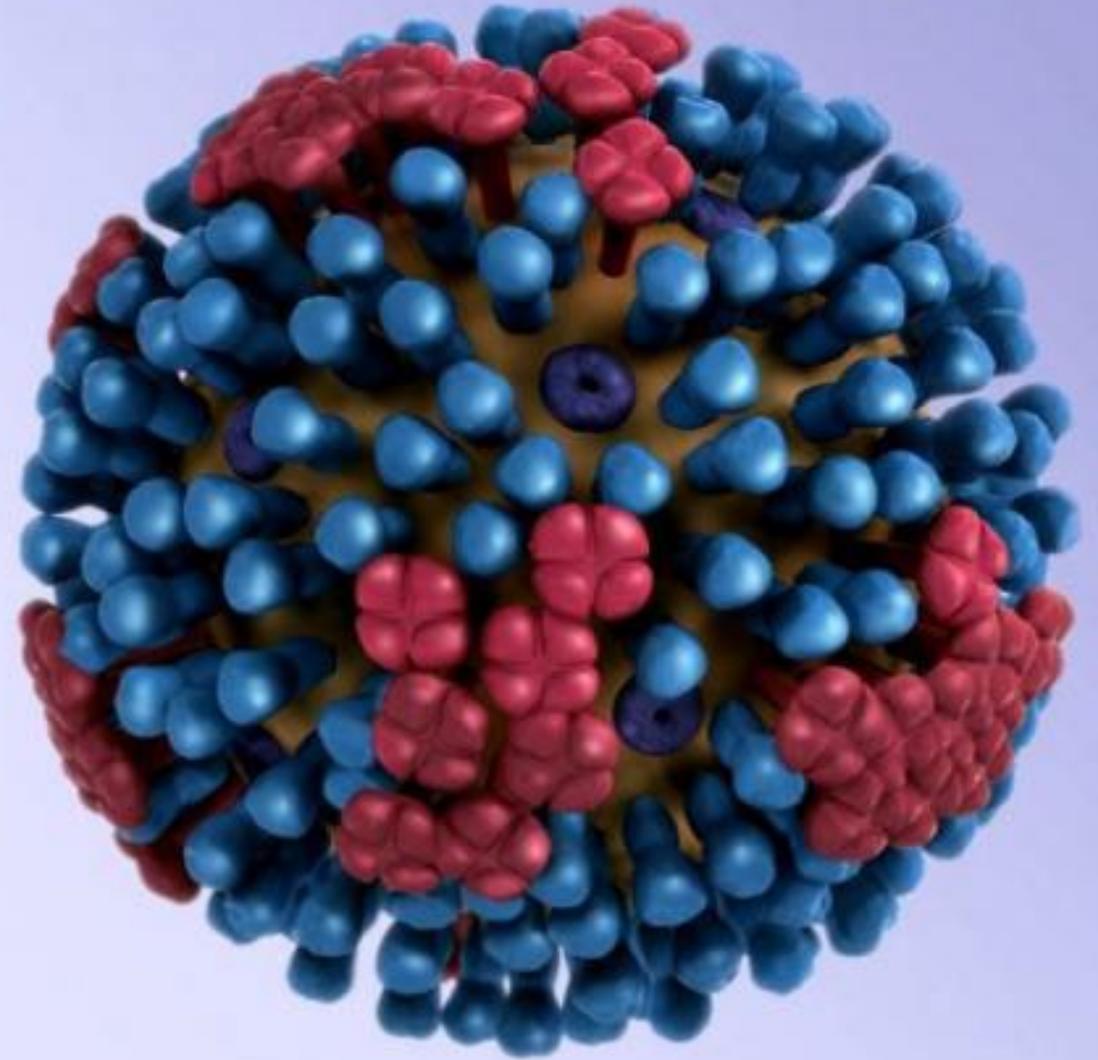


How many flu vaccine doses can you get from a bioreactor the size of an egg (1.5 oz)?

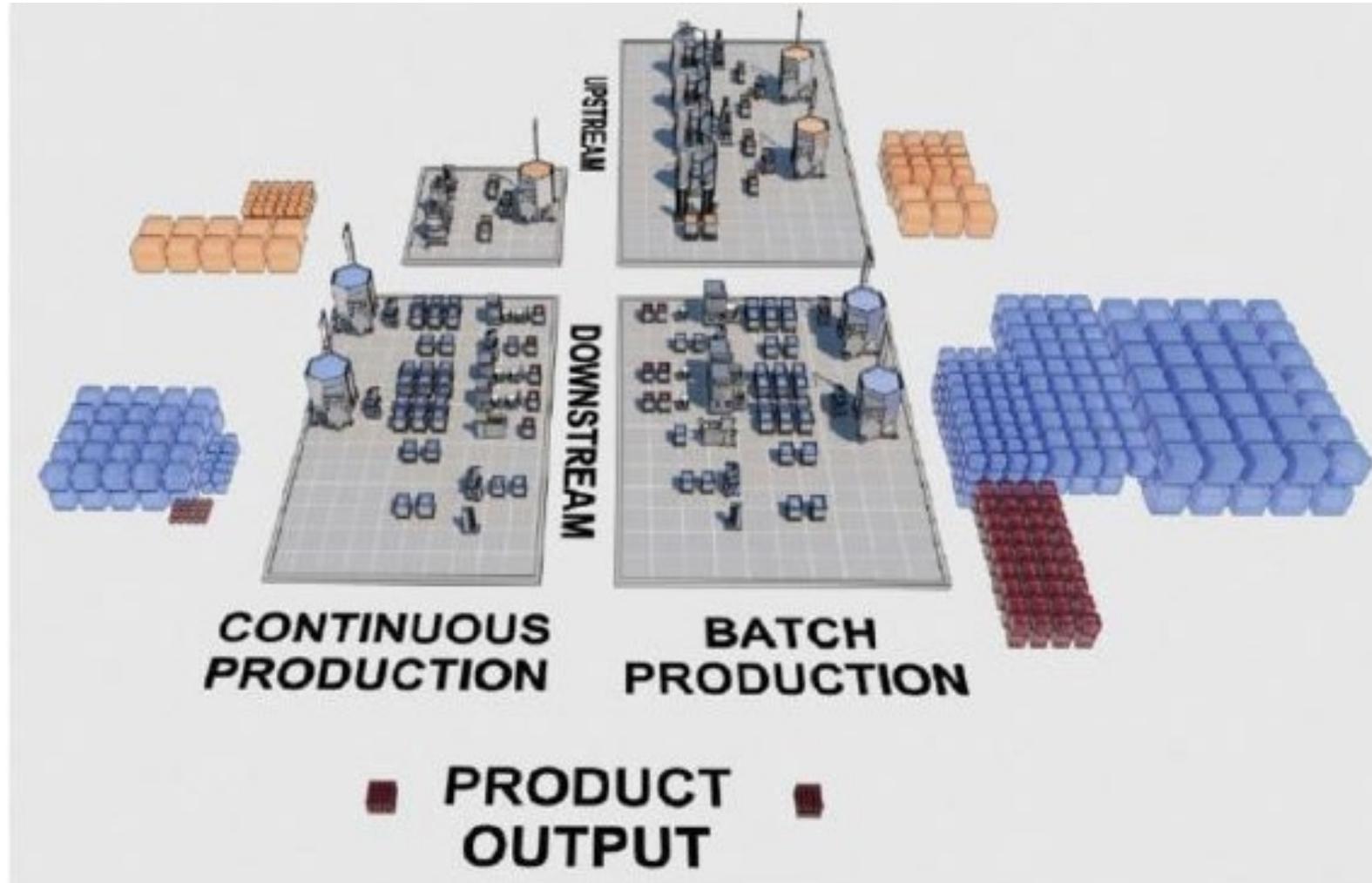
- A. 10
- B. 100
- C. 1000
- D. 10000

Flucelvax

- More similar to circulating “wild” flu
- Easier to change strains for pandemic flu
- Over 10 years, has only gained 15% of market share over egg-based vaccines

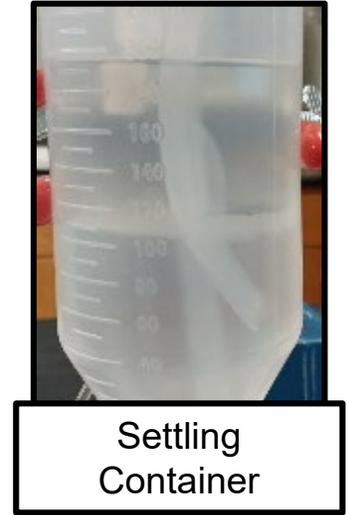
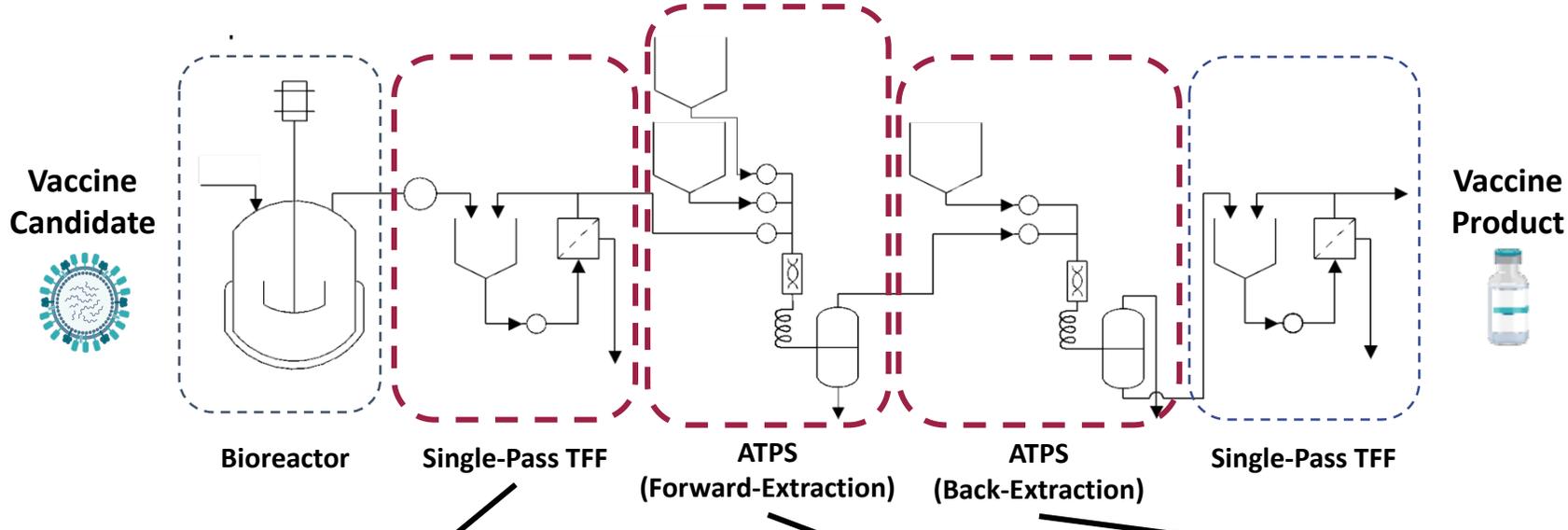


Advantages of Continuous Manufacturing



Continuous ATPS

Upstream Concentration Purification Purification Formulation



Feed Pump



Mixer Settler

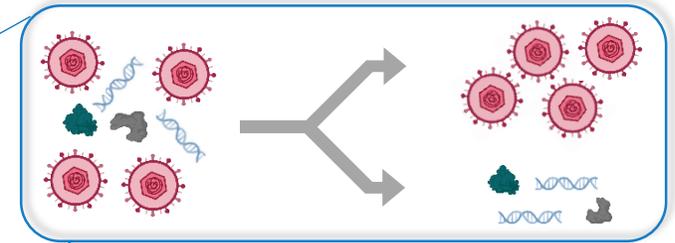
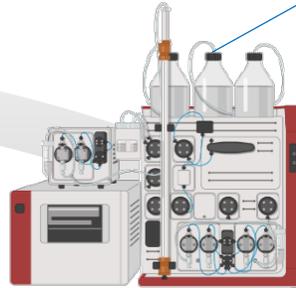


Vaccine Manufacturing

Upstream

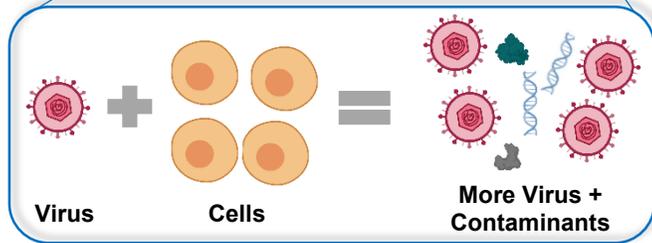


Downstream



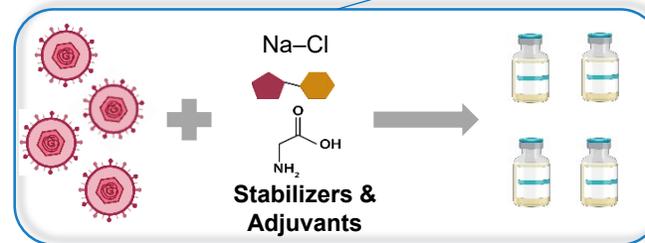
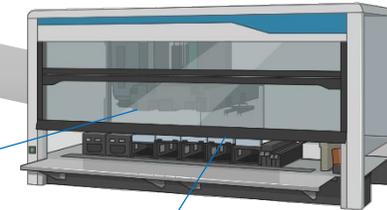
70% Cost

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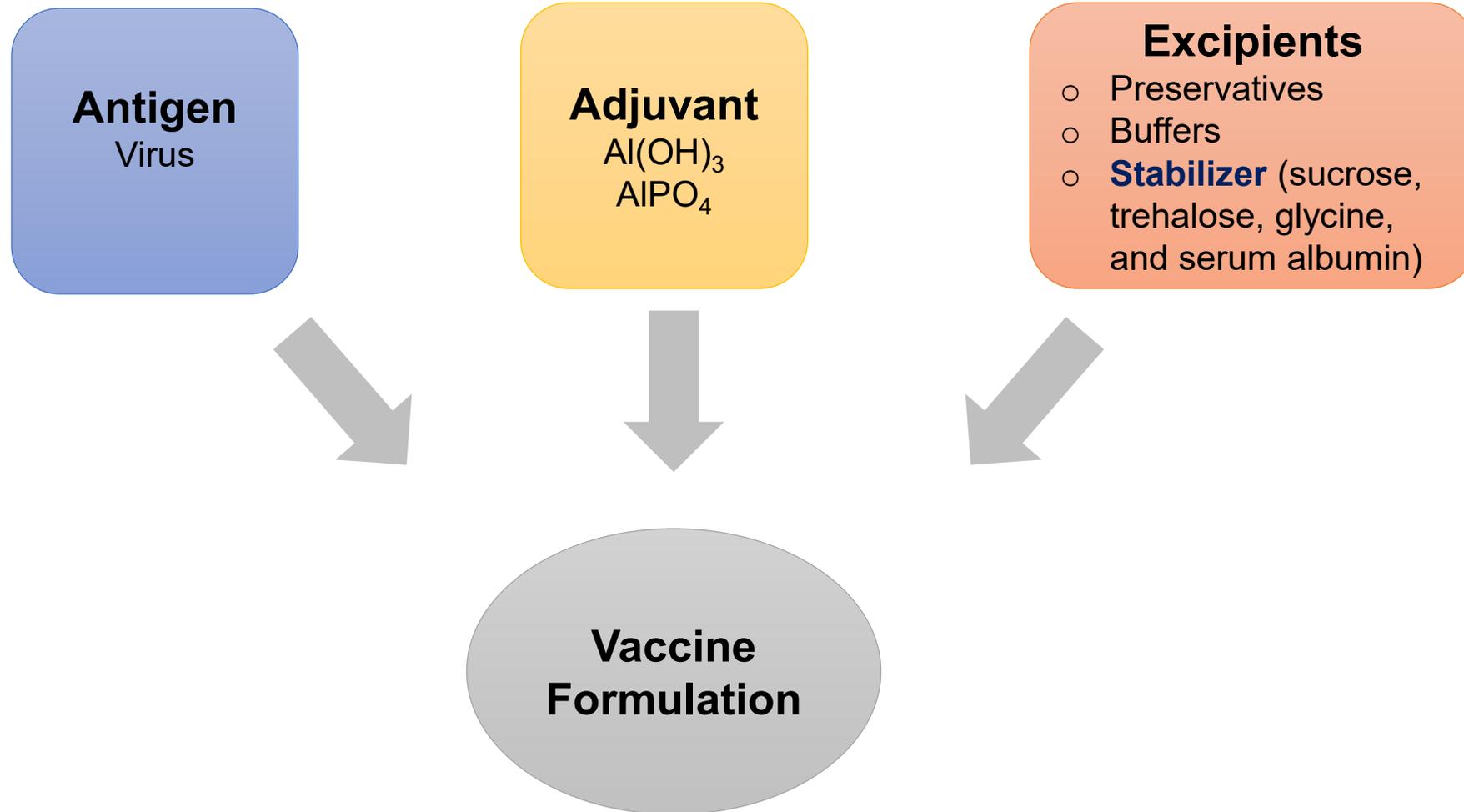


- Mammalian cells
- Insect cell
- Yeast cell
- Bacterial cell

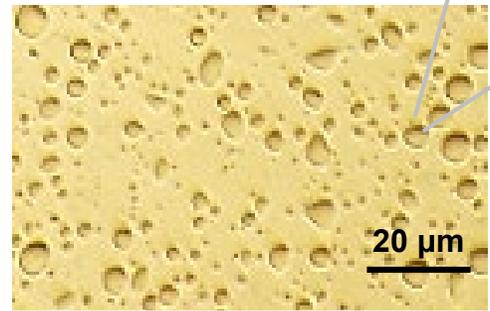
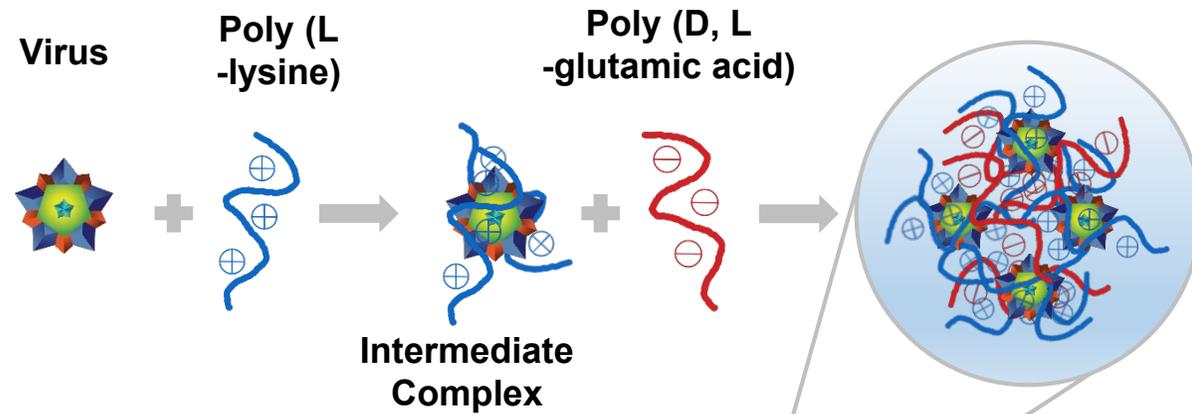
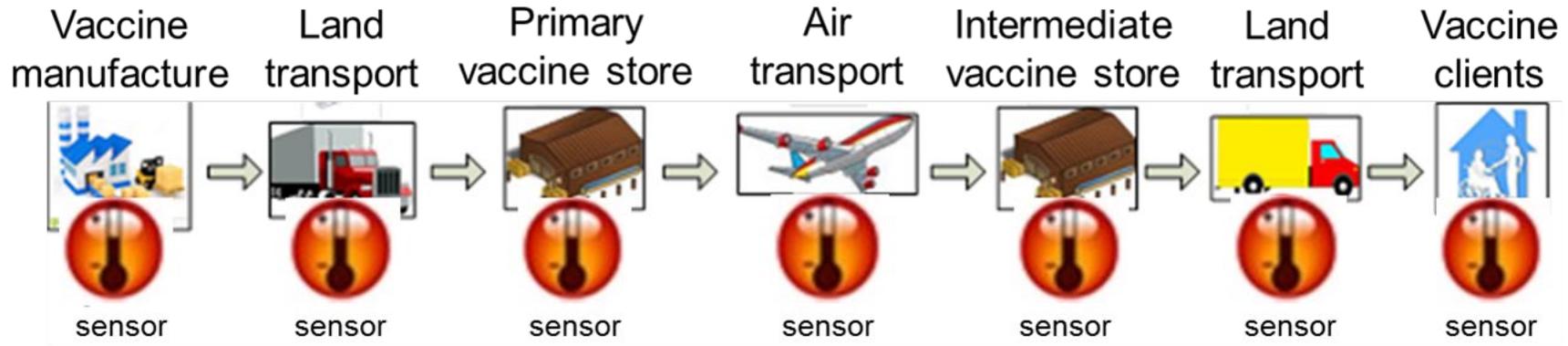
Formulation



Formulation

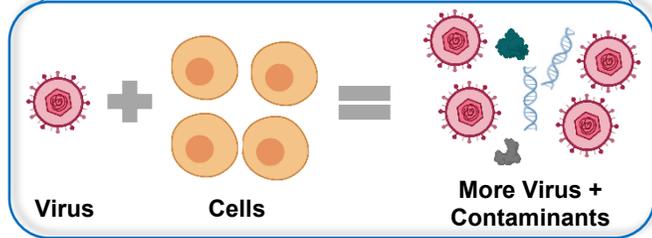
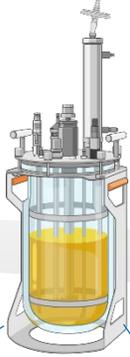


Vaccine "cold chain"



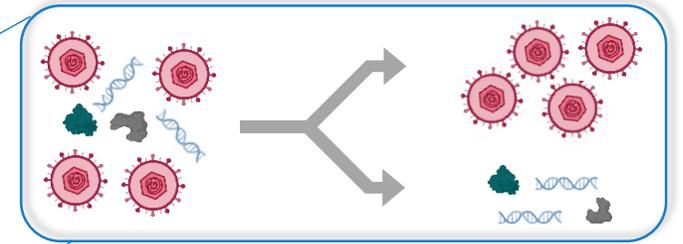
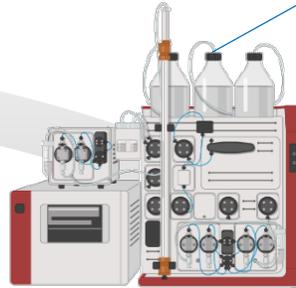
Vaccine Manufacturing

Upstream



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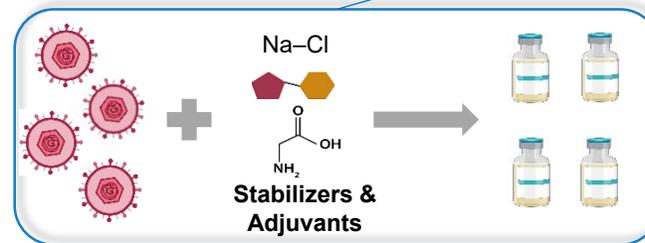
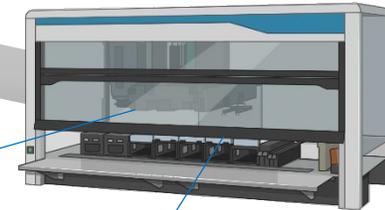
Downstream



70% Cost

<30% Recovery

Formulation



IX-B. ATHLETIC ACCOMPLISHMENTS
Suzanne Sanregret, Director of Athletics



UPDATES FROM ATHLETICS

Michigan Tech Huskies

MICHIGAN TECH
HUSKIES

2021-22 HIGHLIGHTS

- **Hockey**

- NCAA Tournament- 14th time in program history
- Brian Halonen- Hobey Baker Top 10 & AHCA All-American
- 4 Named All-CCHA- Brian Halonen (1st team), Trenton Bliss (2nd team), Blake Pietila (2nd team), Colin Swoyer (2nd team)
- Blake Pietila was a semifinalist for the Mike Richter Award
- Michael Karow- AHCA All-American Academic Scholar
- Finished ranked No. 14 in the nation
- 7 Huskies signed pro contracts after the season

- **Volleyball**

- NCAA Tournament- 4th straight & 12th all-time
- Won the GLIAC Regular Season Title 2nd straight
- Laura De Marchi
 - Academic All-American, All-American, Midwest Player of the Year, NCAA Woman of the Year nominee
- Anna Jonynas - GLIAC Player of the Year
- Michigan Tech career leaders in their primary stat
 - De Marchi (assists), Ghormley (kills), Utlak (digs),
- Ranked in the top 25 all season- Finished No. 22
- AVCA Academic Team with a 3.63 GPA



NORDIC SKIING

- Three NCAA All-Americans
 - Anabel Needham - 4th in 5K classic
 - Best NCAA Nordic finish in program history
 - Nea Katajala - 7th in 5K classic
 - Skylar Patten - 10th in 20K skate
- Academic All-American - Anabel Needham
- Qualified a full team to the NCAA for the 3rd time in program history
 - Women placed 4th, Men placed 9th, Teams combined to finish 6th
- Anabel Needham skied for Team USA at the U23 World Ski Championships
- Tom Monahan Smith- Women's Central Region Coach of the Year
- 9 Huskies were named on the All-CCSA
- 15 All-Region Finishes



202-22 HIGHLIGHTS

- Men's Basketball
 - GLIAC North Regular Season Champions (10th time in program history)
 - Owen White
 - GLIAC Player of the Year (back-to-back)
 - All-Midwest Region
 - All-GLIAC 1st Team & All-GLIAC Defensive Team
 - Josh Buettner - GLIAC Coach of the Year
 - NABC Team Academic Award with a 3.52
- Women's Basketball
 - Ellie Mackay- All-GLIAC 1st Team
 - Alex Rondorf- All-GLIAC 2nd Team & All-GLIAC Defensive
 - Isabella Lenz- GLIAC Freshman of the Year (5th in program history)
 - Team GPA ranked 15th in NCAA Division II with a 3.734



202-122 Highlights

- **Football**
 - 6 wins- most since 2015
 - Hayden Huttula - AFCA First Team AllAmerica
 - 8 All-GLIAC selections
 - 5 Players National Football Foundation Hampshire Honor Society Scholars
 - 11 straight Miner's Cup victories
- **Cross Country**
 - Men's team qualified for NCAA Championship
 - Clayton Sayen- USTFCCCA AllRegion
 - 6 runners earned All-GLIAC honors
- **Track & Field**
 - Clayton Sayen
 - USFTCCCA Second Team AllAmerica 1500 meters
 - All-Region, GLIAC Champion, GLIAC record, Tech record
- **Soccer**
 - 5 All-GLIAC selections
 - 12 wins- most since 2016



2024-22 Highlights

- Bill Sproule, former FAR received GLIAC's Donahue Service Award
- Former Husky Deedra Irwin skied in biathlon for Team USA at Beijing Olympics
 - Had the best finish in Team USA biathlon history 7th in 15K
- Launched Year 4 of the Student-Athlete Leadership Academy
- Student-athlete well-being & holistic experience embraced by full department
- Name, Image, Likeness- NOCAP Sports
- Renovation projects



202-122 Highlights

- Academics
 - 3.60 student-athlete GPA
 - 63% of student-athletes received All-Academic honors
 - 48% of student-athletes were on the Dean's list for Spring semester
 - 93% Academic Success Rate- Graduation Rate
 - 88% Retention Rate for all sports
 - All 14 NCAA varsity teams have an overall average team gpa of 3.2 or higher and 10 teams are above 3.6
 - 2 Academic All-Americans
 - Laura De Marchi- volleyball
 - Anabel Needham - Nordic skiing
 - 4 GLIAC Commissioner's Awards
 - Laura De Marchi- volleyball
 - Hayden Huttula - football
 - Owen White - men's basketball
 - Clayton Sayen- cross country, track & field



BRIAN HALONE

- AHCA All-American
- Hobey Baker Top 10
- All-CCHA First Team
- Tallied 100 career points
- Led the nation in even-strength goals
- 2-Year NHL Contract with New Jersey Devils
- Mechanical Engineer
- 3.29 GPA



Outdoor Adventure Program, IM and Recreation

OAP ~12,500 participants

Nordic, biking, snowshoeing, kayaking, canoeing, rock climbing, log rolling, bike camps, ropes course, Wildlife 1st Responders and Leave No Trace courses, etc.

Intramurals - ~9500 participants

Softball, cornhole, ping pong, badminton, hockey, disk golf, paintball, bocce ball, pickleball, swim meets, spikeball, etc.

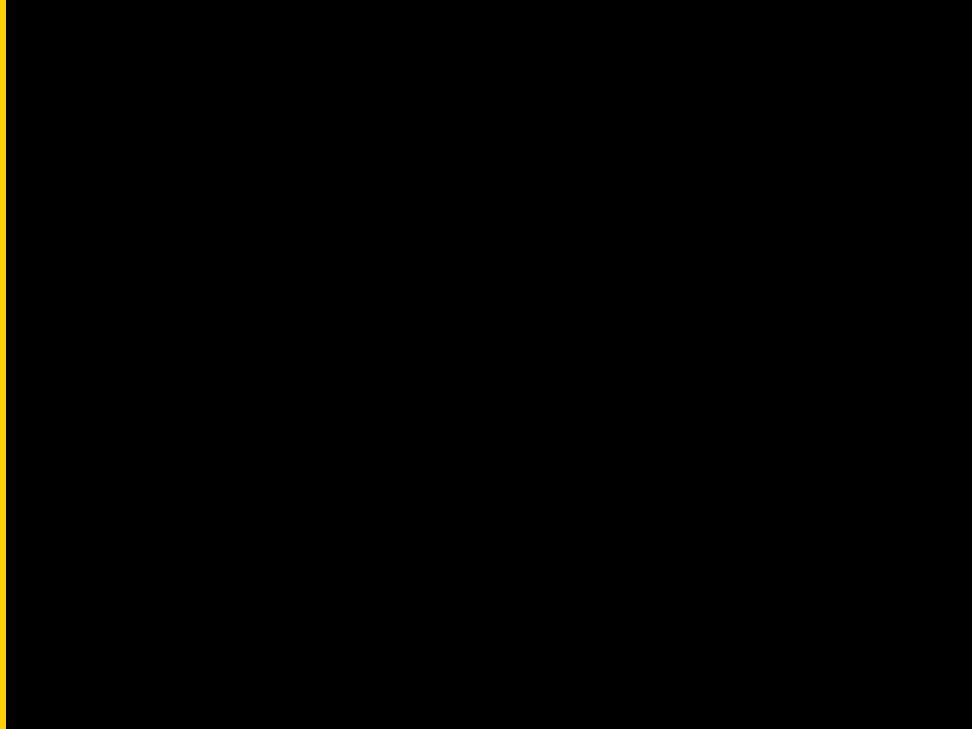
Recreation~ 160,000 participants

Sports camps, clinics, Little Huskies programming, fitness center, pool, shooting range, multi, rowing, yoga, personal training, etc.





MICHIGAN TECH



IX-C. ADVANCEMENT REPORT

William Roberts, Vice President for Advancement & Alumni Engagement

Advancement and Alumni Engagement

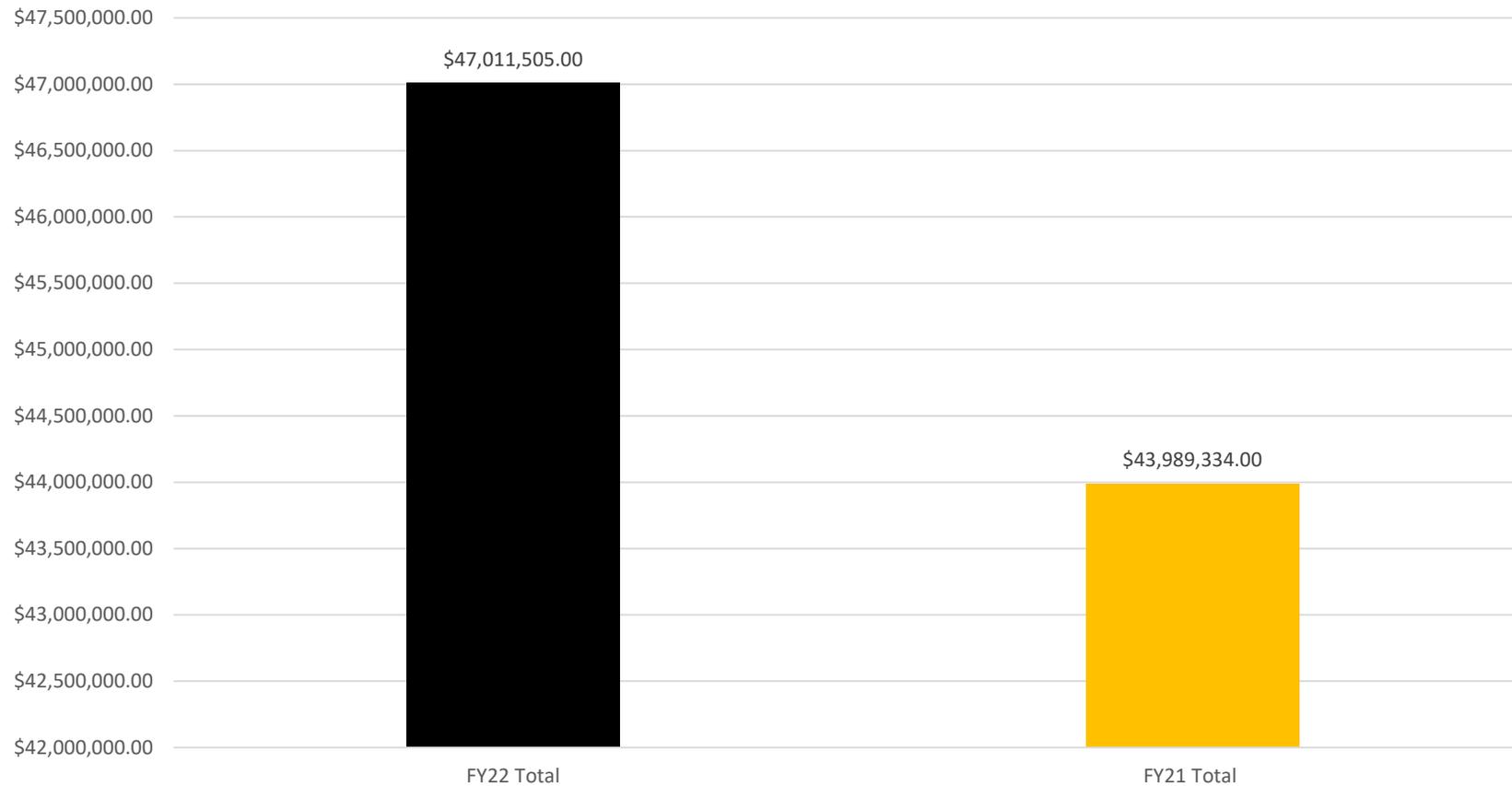
Dr. Bill Roberts

08/04/22



Michigan Tech

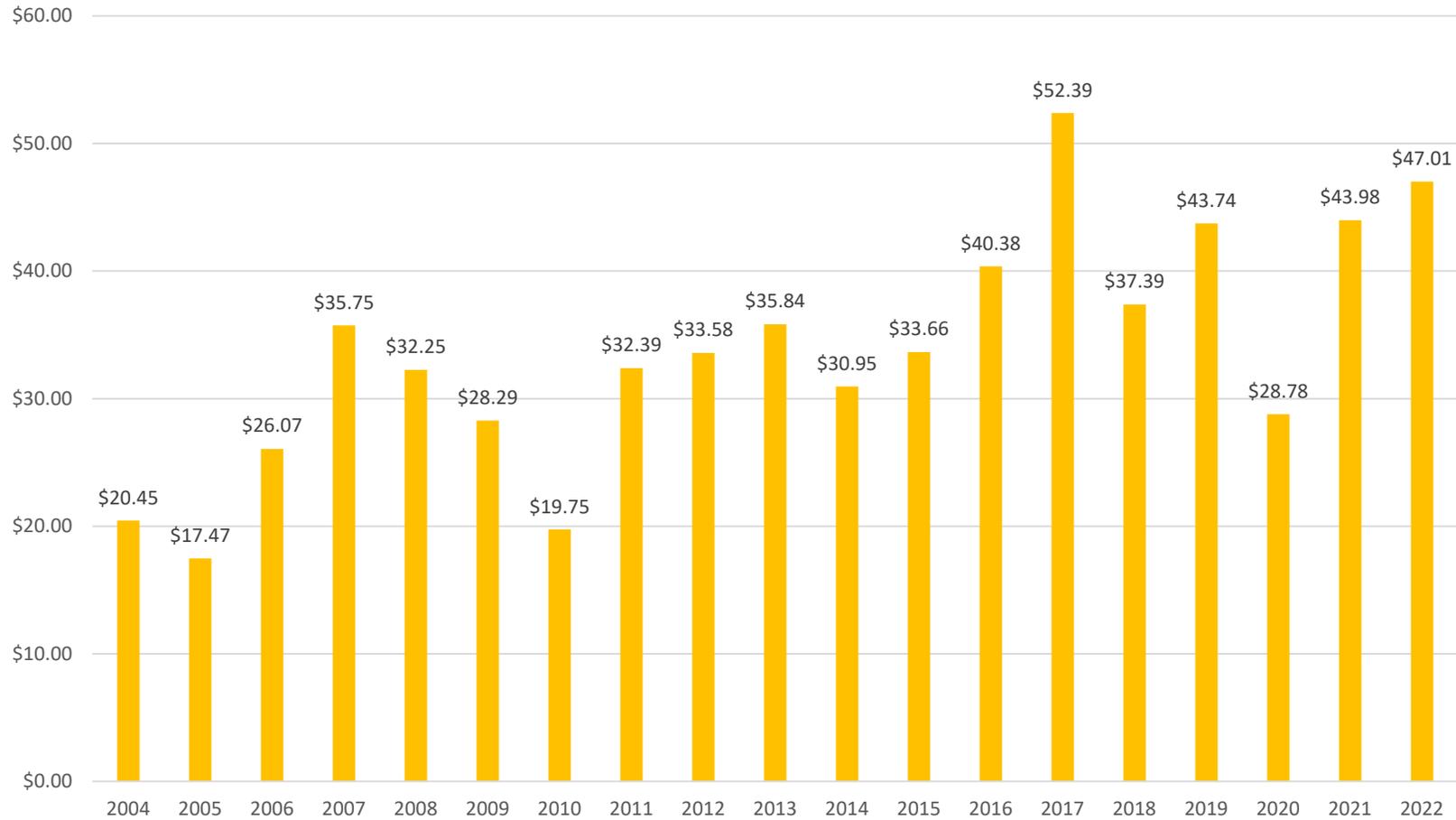
FY22 vs FY21 Total Giving



6.8% Increase over FY21 and 115% of \$40.75mm Goal



Historical Giving FY04-FY22

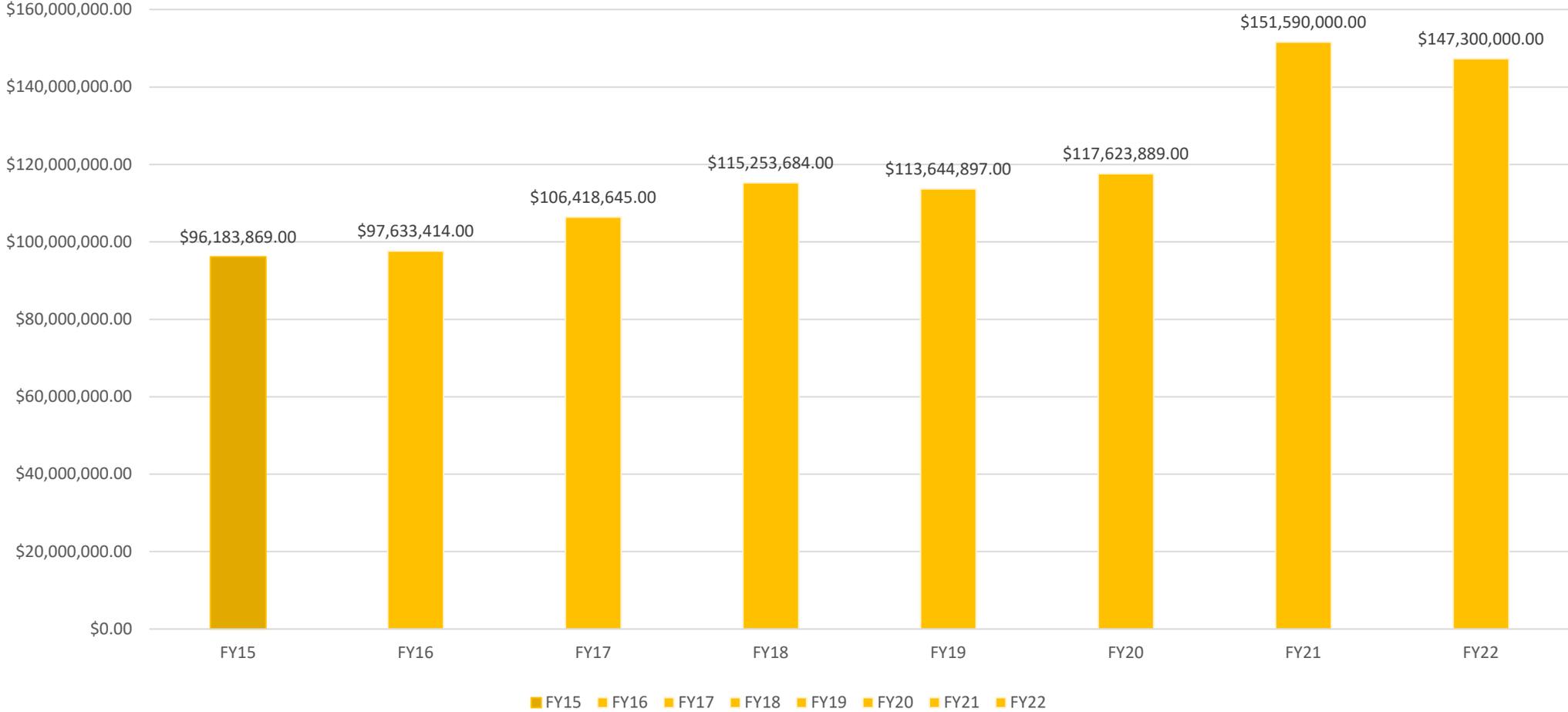


Second largest annual fundraising total since CASE approved counting



Michigan Tech

FY15-FY21 YTD Total Endowment Value



30% Increase since FY19 and over a 50% increase since FY15



Alumni Reunion 2022

- Nearly 450 guests registered
- Additional outdoor adventure options including Copper Harbor hike
- Partnered with COE to expand the boat cruise on the Ranger III
- Partnered with Athletics hosting the 100 years of hockey reunion & our mascot's 50th anniversary



Campaign Prep: Implementing Feasibility Study Results



Michigan Tech

Campaign Readiness

- Raised \$163 million in gifts and pledges in the last four fiscal cycles
- Grew the endowment from \$113 million to nearly \$150 million in the last four fiscal cycles
- Reduced the endowment fee and eliminated the gift split
- Established campus naming guidelines
- Developed metrics, fundraising policies and best practices
- Hosted multiple regional and national events supporting the Michigan Tech mission
- Cultivated several campaign leadership gifts
- Contracted with Ellucian to integrate new CRM
- Completed comprehensive Feasibility study
- Rebrand and refocus of annual fund to expand our digital outreach



Campaign Vision

- Provide the resources to sustain Michigan Tech as a premier national university positioned to lead in the Fourth Industrial Revolution
- Fulfill the financial needs to achieve our Portrait 2045 vision
- Reinvigorate donors, friends, volunteers, companies and foundations to partner with Michigan Tech as we fulfill our mission and serve the public good as we solve the world's most complex problems



The Leadership Phase

- Tenaciously engaging our alumni and friends sharing the Michigan Tech story
- Diligently listening to alumni and friends while connecting them with our campus partners
- Confidently delivering bold, yet donor centric, proposals
- Graciously thanking and stewarding our supporters as they enjoy their philanthropic experience



Moving Michigan Tech into Campaign Mode



Michigan Tech

Alumni Engagement

- Increasing engagement programming footprint
- Using alumni survey data to enhance alumni communication and engagement
- Partnering with the Alumni Board to enhance engagement programming



AAE Past and Future Events

- Winter Carnival “All Nighter” chili fest
- Presidential Alumni events in FL
- Hosted Innovators of Industry on campus
- Reception for College of Computing and College of Business boards
- H-STEM Groundbreaking
- Alumni Reunion
- August 2022 Presidential Events in TC and Petoskey
- DEIS Advisory Board on Campus in October
- Alumni Tech Talks (regional)
- Nara Maple Center Dedication-Bootjack
- VPA collaboration for Backstage Jazz Event



CCS Campaign Consultant

- Conduct campaign acceleration phase
- Coordinate volunteer management strategy
- Develop a cohesive, actionable campaign plan and timetable
- Conduct campus workshops and fundraising strategy sessions
- Prepare campaign marketing materials



Volunteers

- Build a comprehensive group of donors and constituents to partner in our campaign success
- Emphasis on regional as well as discipline focused volunteers
- Draw from current volunteers and donors
- Establish clear guiding principles for volunteers





Ensuring Donor Integrity



Michigan Tech



The Leaders of 2035



Michigan Tech



**Questions?
Thank you**



Michigan Tech

IX-D. STUDENT AFFAIRS REPORT

Wallace Southerland III, Dean of Students & Vice President for Student Affairs

Student Affairs at Michigan Tech | Extraordinary.

Board of Trustees
Presentation

August 2022

Wallace Southerland III, Ph.D.

Vice President for Student
Affairs and Dean of Students



Reclaiming the **Husky Spirit: FY 22 Highlights**

- (*New*) Cocoa-and-Conversation with the Dean of Students tradition created
- (*New*) “Husky Howl” tradition created in collaboration with students and Professor Brett Hamlin
- (*New*) Grand Opening and Dedication of the Skate Rental at the SDC in honor of **Charlotte S. Jenkins, a Tech student and RA**, “allowing more students and community members to enjoy the ice at the MacInnes Ice Arena”
- (*New*) Monthly Pizza-with-the-President tradition created with undergraduate student RSOs and graduate students
- (*New*) Fall Break Resolution passed in University Senate (effective October 2023) to promote institutional well-being
- “Afternoon-on-the-Town” welcome week tradition continued
- K-Day tradition continued
- Broomball tradition continued
- Winter Carnival tradition continued
- Spring fling tradition continued
- Food-theme nights traditions in residence halls continued
- Awards programs for fraternities, sororities, and student leadership continued

Student Affairs at Michigan Tech | Measuring Up

- (*New*) 70% of Student Affairs departments **now have metrics for measuring success** for FY23
- (*New*) Annual Productivity Report established for FY22 and forward
- 103.36% fall 21 student housing occupancy and 99.73% for spring 22 (including undergraduate and graduate)
- 1,926 **service hours provided to community** during “Make a Difference Day”
- 1,989 students attended **Fall Career Fair**
- 94% **job placement rate** six months after graduation
- \$65,000 **starting salary** for graduates
- 4,000+ students participated in annual K-Day tradition
- 1,732+ students received **academic assistance and support services** through Student Affairs
- \$15,668+ in **emergency funds provided** to 48 undergraduate and graduate students
- 2,144+ **emergency absence letters** processed for students

Student Affairs at Michigan Tech | FY23 Agenda

- (*Unexpected*) **Rebuild** Career Services with new staff, revised priorities, and measurable outcomes
- (*Unexpected*) **Rebuild** Student Leadership and Involvement with new staff, revised priorities, and measurable outcomes
- (*New*) **Establish** the **HuskyGold Leadership Pathway curriculum** as the centerpiece of a Michigan Tech student leadership development model
- **Continue** improving Student Affairs accountability by creating a “Data Metrics Inventory”
- **Continue** providing leadership in institutional retention efforts towards 88% by 2024-2025
- **Continue** updating all job descriptions with emphasis on uniformity, clarity, and accountability
- **Host** a University Student Success Summit to better understand and coordinate institutional efforts
- **Continue** re-imagining how we message and deliver mental health services to students
- **Focus** on graduate student concerns and sense of belonging at Michigan Tech
- **Promote** civility and respect campaign leading up to mid-term elections
- **Promote** student voter registration, education, and participation with Undergraduate Student Government
- **Mediate** USG and GSG discussions related to the Student Activity Fee allocation model

Retention at Michigan Tech | Update

University Goal by 2024-2025	88%
Preliminary effective retention for fall 2021 freshmen cohort based on fall 2022 registration	86% <i>(Average of past five years: 84.1. Source.)</i>
Examples of retention outreach strategies	<ul style="list-style-type: none">▪ Ongoing coordinated use of the new Civitas student success platform▪ Engaging colleges in communicating with students▪ Post-card outreach▪ Email outreach▪ Text-message outreach▪ Phone call outreach from advisors, faculty, alumni/ae, staff▪ Hosting virtual events for underrepresented minority students▪ Examining student holds on accounts

Acknowledgements

A heartfelt **"thank you"** to the Student Affairs employees, staff and students, who created **an incredible year of extraordinary experiences** for Michigan Tech students.

We did it...**together!**

IX-E. UNDERGRADUATE STUDENT GOVERNMENT

Cheyenne Scott, President

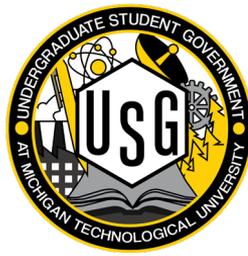
USG BOARD OF TRUSTEES UPDATE

Cheyenne Scott, USG President
August 4, 2022



Michigan
Technological
University

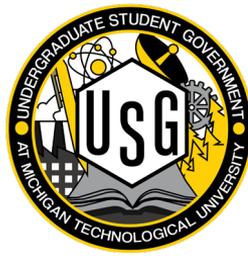




USG's Vision for 2022-2023

- *“Use our relationships with undergraduates to determine their wants and needs and advocate on their behalf for changes that enhance the student experience.”*

- *“Strive to be an active component of student life by engaging in proactive outreach and timely follow-up.”*

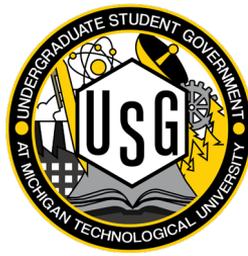


Events Committee

- Planning and executing orientation week and K-Day events.
- Chartering busses for both Thanksgiving and Winter break.

Public Relations Committee

- Revamping USG website (usgatmtu.mtu.edu) and other social medias including Instagram, Discord, and Facebook.
- Interacting with students more regularly via these platforms.



Political Affairs Committee

- Coordinating communication/relationships with other student governments.
- Leading campus efforts to increase MTU students voter engagement.

Student Affairs Committee

- Investigating student concerns regarding campus worker pay, dining services, housing availability and affordability.
- Aiding other committees in student outreach.



Ways and Means Committee

- Implementing a new financial software for RSOs
- Reviewing the SAF distribution in collaboration with GSG

Judiciary Committee

- Proposing necessary changes to USG Constitution and Bylaws.



Thank You! Questions or Comments?

CheyenneScott

Undergraduate Student Government,
President

clscott@mtu.edu | usg-president@mtu.edu

(231) 203-4032

IX-F. GRADUTATE STUDENT GOVERNMENT

Ranit Karmakar, President



Presentation to

BOARD OF TRUSTEES

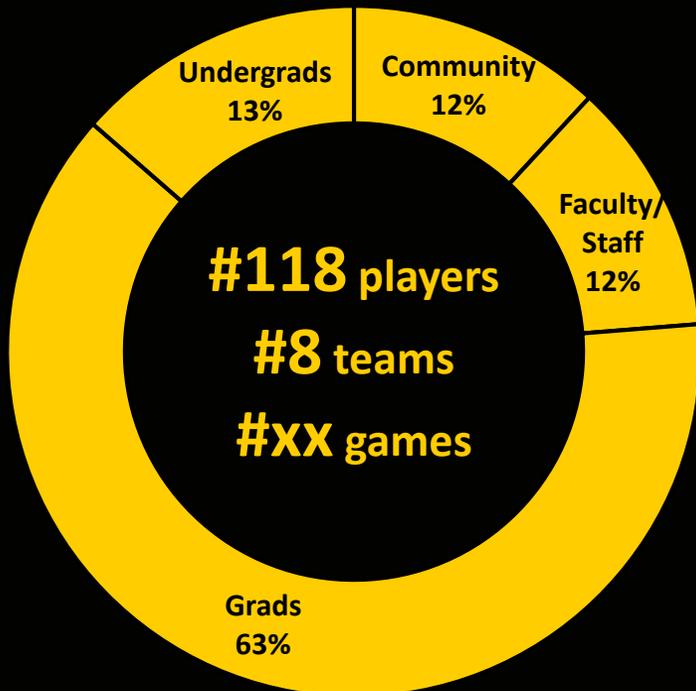
Ranit Karmakar

GRADUATE STUDENT GOVERNMENT

AUGUST 4, 2022



GSG SUMMMER SOFTBALL LEAGUE



Finals and Softball picnic on *August 6th*



GSG SOCIAL EVENTS



ZIPLINING WITH OAP
#60 Students + #11 Family members





GSG ACADEMIC EVENTS

Alumni Reunion Poster Session



FRIDAY, AUGUST 5TH | 9:30 AM
Alumni Lounge, Memorial Union Building

1 Million Cups



THURSDAY, SEPTEMBER 8TH
Grad Commons





GRAD COMMONS

Housewarming: July 8th, 2022

~#75 Students and their families



“New house for Grad students, new home for GSG”



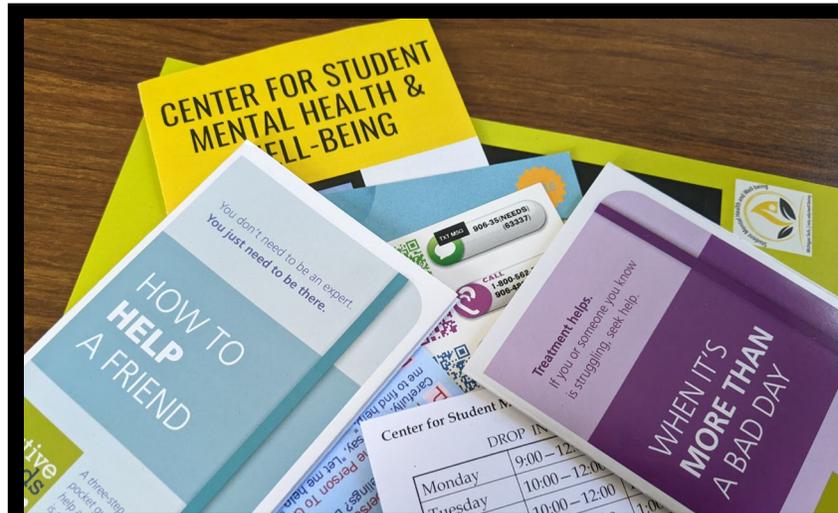
TRAVEL AND CAREER ENRICHMENT GRANT

#27 Travel Grant

#2 Career Enrichment Grant



ADVOCACY AND INITIATIVES



Wellness packets



Poster printers

- **SAF Allocation**
- **Advisor-advisee relationship**
- **Grad student - sense of belonging**
- **Student health and wellbeing**



PARTNERS, COLLABORATORS AND FRIENDS



Michigan Technological University
Van Pelt and
Opie Library



Michigan Technological University
Alumni & Friends



PORTAGE LAKE DISTRICT
LIBRARY



Michigan Technological University
Facilities Management



**JIMMY
JOHN'S**



Michigan Technological University
Graduate School

BLACK ICE
Comics & Books

An aerial photograph of a university campus. The central focus is a large, paved plaza with a circular area in the middle containing a fountain. Surrounding the plaza are several large, landscaped green islands with various trees and shrubs. In the background, a long, multi-story building with a flat roof is visible. The overall scene is well-maintained and green.

THANK YOU

IX-G. UNIVERSITY SENATE

Steve Knudstrup, Vice-President

University Senate Fall Preview

Steve Knudstrup, Senate Vice President

August 4, 2022



Michigan Tech

Senate Term 2021-2022: Another Remarkable Year

52 Numbered Proposals/Resolutions/Charters

- 4th highest number of proposals in a Senate term (since 1959)
- 4 highest totals in last 4 years (2020-21: **87**; 2019-20: **68**; 2018-19: **53**)
- Average for the 29 previous years (1989-90 to 2017-18) is 27 proposals
- In the 1980s never more than 10 in a year



Pending Business from Spring 2022

- 19-22: Uses of Student Evaluations of Instruction: Best-Practice and Minimal Standards
- 37-22: 2023-24 Academic Calendar and Provisional Calendar for 2024-25
- 47-22: Revisions to Senate Policy 108.1: General Policy For Academic Program Planning
- 50-22: Proposal to Create an 'October Recess'
- 51-22: 2022-23 University Senate Budget
- Referendum to approve amendments to the Senate Constitution

August 4, 2022



Michigan Tech

Agenda Items for Next Term

- Process for Joint Appointment Procedures for Tenure and Promotion Review
- Senate Search Procedures for Department Chairs and School Deans
- Essential Education Proposal



X. INFORMATIONAL ITEMS

- A. Proposed 2023 Dates
- B. Board of Trustees Policy 8.3 Board Waiver of Certain Fees
- C. Analysis of Investments
- D. Advancement & Alumni Relations
- E. Media Coverage
- F. Employee Safety Statistics
- G. Disposal of Surplus Property

X-A. PROPOSED 2023 MEETING DATES

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

Retreat

Wednesday, February 22, 2023 (half day)

Thursday, February 23, 2023

Formal Session

Friday, February 24, 2023

Friday, April 28, 2023

Thursday, August 3, 2023

Friday, October 6, 2023

Friday, December 15, 2023

Campus events to note:

Winter Carnival – February 8-11, 2023

Spring Commencement – Saturday, April 30, 2023

Alumni Reunion – August 3-5, 2023

Fall Commencement – Saturday, December 16, 2023

X-B. BOARD OF TRUSTEE POLICY 8.3 – WAIVER OF CERTAIN FEES

The Vice President for Student Affairs, in special circumstances, is authorized to waive student fees related to admission, registration, continuing enrollment deposit, and the enrollment process. Such waivers shall be reported to the Board annually.

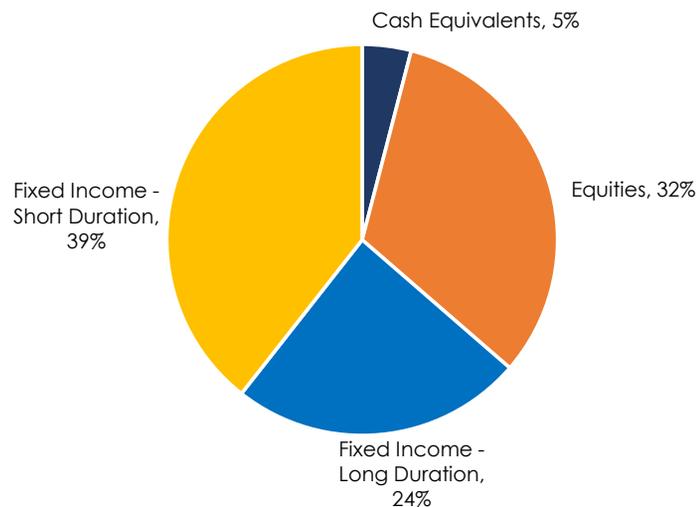
In FY 21-22, Michigan Technological University did not authorize the waivers of fees for admissions, registration, continuing enrollment deposit, and the enrollment process.

X-C. ANALYSIS OF INVESTMENTS

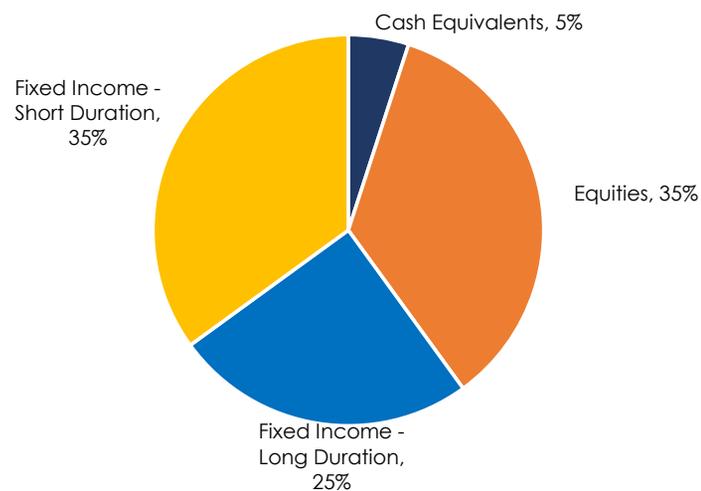
**MICHIGAN TECH UNIVERSITY
INVESTMENT PORTFOLIO
JUNE 30, 2021 THROUGH JUNE 30, 2022**

	Market Value 6/30/2021	Market Value 6/30/2022	Fiscal-Year Investment Return	Benchmark Return	Benchmark
Money Market Fund	\$ 2,227,371	\$ 2,094,114	0.15%	0.18%	ICE BofA Merrill Lynch US T-Bill Index
Equity Funds:					
Core Equity Fund	11,505,342	8,446,297	-11.49%	-10.62%	S&P 500
Commonfund Strategic Solutions Equity Fund	6,888,970	6,476,270	-2.77%	-10.62%	S&P 500
Total Equity Funds	<u>18,394,312</u>	<u>14,922,567</u>			
Fixed Income Funds:					
Intermediate Term Fund	8,896,448	9,410,365	-3.61%	-3.29%	ICE BofA Merrill Lynch 1-3 Yr Treasury
Commonfund Contingent Asset Portfolio	8,892,319	9,384,710	-2.40%	-3.29%	ICE BofA Merrill Lynch 1-3 Yr Treasury
High Quality Bond Fund	6,760,565	5,650,449	-10.85%	-10.29%	Bloomberg Barclays US Aggregate Bond Index
Multi-Strategy Bond Fund	-	5,649,010	-10.55%	-10.31%	Bloomberg Barclays US Aggregate Bond Index
Total Fixed Income Funds	<u>24,549,332</u>	<u>30,094,534</u>			
Total	<u><u>\$ 45,171,015</u></u>	<u><u>\$ 47,111,215</u></u>	<u><u>-5.37%</u></u>		

Current Asset Allocation



Target Asset Allocation



X-D. ADVANCEMENT AND ALUMNI RELATIONS

Advancement and Alumni Engagement
Michigan Tech Board of Trustees
August 4, 2022

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

- Highlights and progress over the past year for campaign preparation:
 - Goal: Review the fee structure to be sure it's in accordance with our peers and appropriate for a campaign. Outcome: The administrative fee has been reviewed and approved to ramp down to 1.5% over the next three years.
 - Goal: Review of the Michigan Tech Fund Bylaws. Outcome: Bylaws reviewed, revised, and approved by the MTF Board of Directors.
 - Goal: Ensure Donor integrity and intention in every aspect of our business. Outcome: Special focus has been placed on reviewing gift agreements and donor stewardship.
 - Goal: Evaluate private equity assets as an investment vehicle for the endowment. Outcome: The Michigan Tech Fund has evaluated and adjusted their Investment Policy Statement to address private equity assets.
 - Goal: Revitalize alumni engagement with services and programs virtually and across the nation. Outcome: Hired a new AVP for Alumni Engagement and are building out staff and programming.
 - Goal: Rebrand and refocus annual giving toward engaging more first time donors. Outcome: We have engaged with Ruffalo Noel Levitz (RNL) to expand our digital reach with a goal to increase unrestricted dollars and donor participation as well as alumni engagement through text messaging and email.
 - Goal: Implement Customer Relationship Management software. Outcome: We are in process of implementing Ellucian Advance with a go-live date of July 1, 2023.
 - Goal: Engage alumni, principal and major gift donors and corporate/foundation partners in a virtual and hybrid environment. Outcome: The frontline fundraising team has adapted to a new hybrid form of engagement with positive response from constituents and increased funds raised overall.
 - Goal: Launch Alumni DEIS Advisory Board for Fall and establish alumni board liaison. Outcome: The Alumni DEIS Advisory Board is established and active.

Highlights

- Raised \$47.00 mm to date or 115% of the \$40.75 mm goal (as of June 30, 2022)
- \$57 million in outstanding asks from 261 individuals
- Campaign preparation:
 - We have partnered with the strategic fundraising firm, CCS, as counsel for the campaign. Christina Taler will serve as our CCS Campaign Director. CCS has been providing campaign services for 75 years. Seven proposals from independent consulting firms were reviewed.
- Implementation of feasibility study recommendations:
 - Staffing:
 - We have put into place a more traditional fundraising organizational structure to position our team for deliberate focus and strategic practice toward growth and success and further invested in staff across Advancement and Alumni Engagement. Five team members have been asked to take on new duties and have earned promotions. Four new hires across the division have been made. Three positions have been posted.
 - Focus our national volunteer database
 - Partnering with the Alumni Board to enhance engagement programming

- Provide additional resources and alignments as the campaign ramps up
- Partner in an integrated overall marketing initiative with AAE and UMC
- Pipeline development through annual giving and alumni engagement
 - The Alumni Engagement Office hosted the Commencement Reception on Saturday, April 30.
 - The Alumni Engagement Office hosted several regional & local events, including Winter Carnival and the post-ceremony Commencement reception
 - The new Alumni Board of Directors began their 6-year term July 1, 2022
 - Plans are underway for Reunion Weekend 2022: August 4-6, 2022 (full schedule follows)
 - Increasing engagement programming footprint
 - Using alumni survey data to enhance alumni communication and engagement
- Academic partnered events:
 - Hosted Innovators of Industry on campus
 - Reception for College of Computing and College of Business boards
 - Celebrated the H-STEM groundbreaking ceremony April 29 and construction started

Fundraising totals as of June 30, 2022

\$9,469,938 in planned gifts

\$4,035,654 in realized planned gifts

\$6,666,438 in major outright gifts and pledges

\$2,774,883 in annual gifts under \$10,000

\$2,350,521 in corporate support

\$2,371,806 in foundation gifts

136 illustrations, proposals, and gift agreements were provided for donors

70 executed gift agreements

Regional Areas of Focus Principal Giving/Presidential Outreach

- August 9 - 11 Donor and Alumni Events are scheduled in Traverse City featuring faculty and alumni speakers.
- August 18 - Lake Linden - MTU Nara Family Forest Sugar Shack dedication
- September 23 - Houghton - Advancement and Rozsa Center donor event.

Advancement and Gift Planning

Reorganized staff structure for deliberate focus and strategic practice toward enhancing service to our academic and unit partners and the University overall. Staff took on new responsibilities and earned promotions.

- Executive Director for Corporate and Foundation Relations
 - Filled open Director for Foundation Relations position
- Executive Director for Major Gifts
 - We expect to add three additional assistant director frontline fundraising positions to this team between now and Spring 2024.
- Associate Director for Strategy and Market Development
- Associate Director for Gift and Estate Administration

Campus Campaign: As of June 30, 2022, 15% of Michigan Tech employees have donated \$213,508.

Major Gifts collaborative work:

- Over \$1.9 million in new gifts since April 2022
- Over \$16 million in discussion with major donors for new gifts in FY23.
- Thompson Foundation applications under review by Student Financial Services to double scholarship recipient cohort in Fall 2022 (from 35 to 70)

Corporate and Foundation Relations collaborative work:

- Over \$450,000 in new gifts since April 2022.
- Dean Cantrell and Dr. Melissa Baird in successful submission to the Sloan Foundation, with invitation to submit full-proposal in September.
- College of Computing presented the inaugural Computing Showcase.
- Career Services hosted the first on-campus, in-person Corporate Advisory Board meeting since 2019, with over 12 companies participating.
- Multiple campus partners delivered a robust presence and programming at the inaugural Northern Michigan Startup Week events in Traverse City, including an Entrepreneur-in-Residence event in partnership with 20Fathoms and Traverse Connect, promotion of the Executive MBA program and Global Campus at the Startup Celebration, and judging at the University Idea Showcase.
- Executive-level visits in Midland and Detroit with VP Bill Roberts, Dean Livesay, and VP David Lawrence. Corporate and foundation partner meetings included: Nexteer, Hemlock Semiconductor, Dow, MICHauto, Ford, ITC, Michigan Health Endowment Fund, Engineering Society of Detroit, Consumers Energy, and Whirlpool.

Advancement Services

- Filled open Assistant Digital Marketing and Content Coordinator position.
- Filled open Information Systems Analyst position.
- CRM Conversion project - the conversion teams have completed the core facilitation sessions and additional sessions for reporting and data security are scheduled for August. The first upload of Banner data will be available for testing in the new system this fall.

Alumni Engagement

- Filled open Assistant Director of Alumni Engagement, Community Programming position.
- Michigan Tech Alumni Reunion is scheduled for Thursday, August 4 - Saturday, August 6, with over nearly 400 alumni and friends having registered to attend. Alumni Relations is focused on bringing back a full weekend for the first time since 2019, continuing flagship traditions, but also "elevating the experience" and putting more focus on the fun for our attendees. New alumni reunion experiences include:
 - Adding in a custom "mocktail" bar offering soda combinations to make it more fun for kids at the events, and more inclusive for our guests that don't drink alcohol
 - Trying new outdoor adventure options with local partners (Keweenaw Mountain Lodge) to explore more of what the UP offers in the summer
 - Expanding the Boat Cruise on the Ranger III to be a College of Engineering showcase to appeal to a wider audience.

- Expanding class year gatherings to be "Alumni Board mixers" and added an iced coffee bar for a more elevated experience beyond the class photos. We have a record amount of registration for this event compared to previous years.
- Partnered with Athletics to celebrate the 100th year of Michigan Tech hockey & the 50th anniversary of the Mascot celebration. A new "pregame social and mascot 50th anniversary" event will occur just before the alumni hockey game on Saturday evening. This has become one of the most popular events this year.
- Regional events: We are standing up a new professional networking/alumni showcase speaker series, "Traveling Tech Talks". These will be regional events hosted twice annually and feature alumni speakers that are in the heart of their careers—subject matter experts/visionaries. Our goal with the events is to attract a wide variety of alumni—diverse class years/majors, continue to engage with those already close to us while also appealing to alumni not always captured at our traditional social/game watch/pub informal gatherings. The Inaugural event is scheduled for the Seattle, WA area in Fall 2022 and will feature a panel of three alumnae and a MTU faculty moderator. The topic will be Human Factors Engineering and UI/UX.

Reunion Schedule of Events:

Thursday, August 4

- 10:30–11 a.m. Reunion Kickoff - Memorial Union Building
- 11 a.m.–4:45 p.m. Keweenaw Mountain Lodge Picnic and Guided Hike in Copper Harbor
- 11:30 a.m. Lunch on Campus at the North Coast Grill & Deli - Memorial Union Building
- 1–3 p.m. Root Beer Float Stand - Memorial Union Building
- 1–4 p.m. Outdoor Adventure Program (OAP) Sturgeon River Guided Canoe Trip
- 1–4 p.m. College of Engineering Boat Cruise on the Ranger III
- 2–3:30 p.m. Campus Tours - John Edgar McAllister Welcome Center at the Memorial Union Building
- 5:30–7:30 p.m. Pasty Dinner - Memorial Union Building
- 7:30 p.m. Summer Youth Programs (SYP) 50th Anniversary Dessert Social - Great Lakes Research Center

Friday, August 5

- 8:30–9:30 a.m. Welcome Breakfast with the President - Memorial Union Building
- 9:30 a.m. Graduate School Research Poster Session - Memorial Union Building
- 10 a.m. Featured Class Year Photos and Coffee with the Alumni Board of Directors - J. R. Van Pelt and John and Ruanne Opie Library
- 10:30 a.m.–1 p.m. Class of 1972 and Golden M Celebration - Memorial Union Building
- 1–4 p.m. Department Open Houses
- 1–4 p.m. OAP Kayak Trip on the Portage Canal departs from the Alumni House
- 2–3 p.m. CFRES Honor Academy Inductions and Outstanding Alumni Awards - U.J. Noblet Forestry Building
- 2–3 p.m. Dee Stadium Open House & Tour with Scott MacInnes at the Dee Stadium
- 4–5 p.m. Husky Bites™ Live! – Great Lakes Research Center
- 4–5 p.m. Tech Talk: 100 years of Michigan Tech Hockey at Fisher Hall
- 7 p.m. 2022 Alumni Awards Ceremony & Cocktail Reception at the Memorial Union Building

Saturday, August 6

- 9–11 a.m. Alumni House Social
- 10 a.m.–2 p.m. Bocce Ball Tournament - Bocce Ball Court by Douglas Houghton Hall
- 1–3 p.m. OAP Guided Mountain Bike Trip on Tech Trails departs from the Main Trailhead of Tech Trails on Mill R
- 5:30–7 p.m. Pregame Social and Mascot 50th Birthday Celebration - John MacInnes Ice Arena
- 7–9 p.m. Alumni Hockey Game - John MacInnes Ice Arena
- 9–10 p.m. Michigan Tech Hockey: 100 Years of Memories Book Signing with Bill Sproule '70 – John MacInnes Student Ice Arena

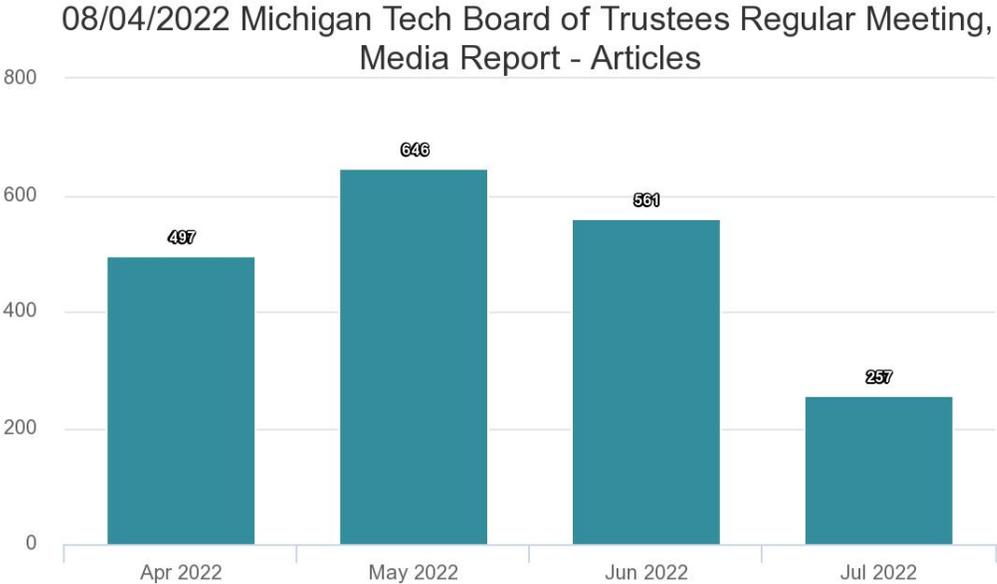
X-E. MEDIA COVERAGE

Media Report: April 14 to July 15, 2022
 Michigan Technological University
 Regular Meeting of the Board of Trustees
 August 4, 2022

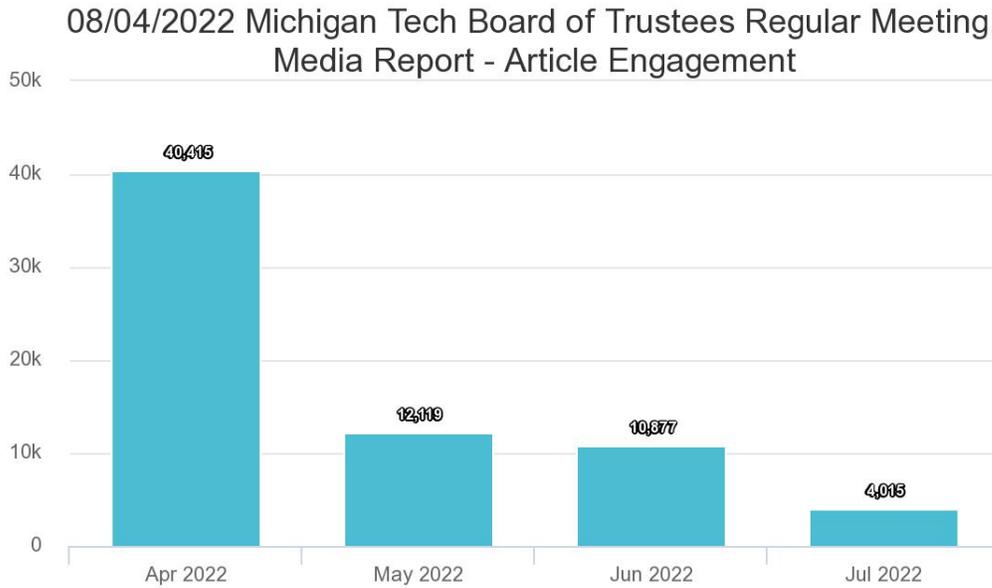
Overview

Articles	1,961
Total engagement	67,426
Average engagement	40
Journalist shares	357
Journalist reach	11.77 million
Average unique vistors per month (UVM)	2.37 million
Total UVM	3.92 billion

Between April 15 and July 15, 2022, a total of 1,961 articles mentioned Michigan Technological University.



Those 1,961 articles were shared, commented on, or liked on social media networks more than 67,420 times.



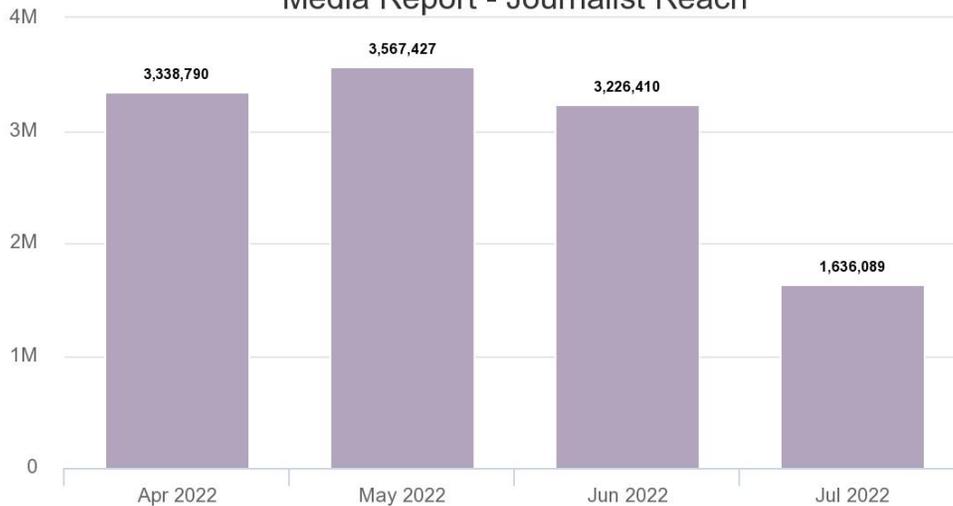
MUCK RACK

Journalists shared the articles on Twitter 357 times, resulting in a reach of nearly 11.8 million people:



MUCK RACK

08/04/2022 Michigan Tech Board of Trustees Regular Meeting, Media Report - Journalist Reach



MUCK RACK

News Highlights:

General News

Michigan Tech's record number of undergrad applications for fall 2022 was covered by [MLive](#), [WLUC TV6](#), [WJMN Local 3](#), [Public Radio 90 WNMU-FM](#), the [Daily Mining Gazette](#), and the [Radio Results Network](#).

Stories on the groundbreaking ceremony for Michigan Tech's [H-STEM Complex](#) were published by the [Daily Mining Gazette](#), [WLUC TV6](#) and [ABC 10 News](#).

Michigan Tech was ranked 61st in the U.S. for value by [Money.com](#), according to a [Fox 2 Detroit](#) news story. Tech placed among the top 10% of colleges in the nation and was the second Michigan college on the list, behind the University of Michigan at No. 1 and ahead of Michigan State University at No. 65.

[Crain's Detroit Business](#) credited Michigan Tech's "research and development might" as a driver behind a small-business boom in the Upper Peninsula. Four of the five small businesses highlighted by Crain's feature a Husky connection: [SightLine](#), with founder Ashley Kern '15 '17 (B.S., statistics; M.S., data science) and COO Erin Thompson '02 (B.S., cognitive and learning sciences); [Orbion Space Technology](#), co-founded by CEO Brad King (ME-EM) and CTO Jason Sommerville '09 (Ph.D., mechanical engineering-engineering mechanics); [ZiTechnologies](#), founded by Stas Zinchick (ME-EM); and [SwimSmart](#), founded by Jacob Soter '19 '20 (B.S., electrical and computer engineering; MBA).

Michigan Tech was mentioned by [The Ticker](#) in a story about a new business attraction program in the Grand Traverse area. The University was named as one of the partners working with Traverse Connect to secure funding for a freshwater research and innovation center in the region.

[Yahoo! News](#) picked up a [Traverse City Record-Eagle](#) story on a new hybrid option being offered for TechMBA students in the Grand Traverse region. Hybrid students will complete most of their coursework online, while interacting with classmates and their instructor at Michigan Tech's Traverse City Research Workspace once a week.

[Yahoo! News](#) and the [Traverse City Record-Eagle](#) ran stories on an entrepreneurial partnership between startup incubator 20Fathoms and Michigan Tech.

Research News

Soonkwan Hong (COB) was quoted by [The Atlantic](#) in an article titled "Naming Objects Is the Opposite of Thoughtless Consumption." Hong's comments explain that items we identify with our sense of self are more likely to be viewed as singular. The story was picked up by [USA News Hub](#).

Sarah Hoy (CFRES) is quoted in an [NBC News](#) story about wolves' positive impacts on prey populations and landscapes. The story is based on recent research published by Hoy, John Vucetich and Rolf Peterson (CFRES) and other insights revealed by the long-running wolf moose study on Isle Royale.

Steve Techtmann (BioSci) was featured on the [Voices from DARPA](#) podcast in an episode titled "The Future of Food: Meals from Microbes."

Simon Carn (GMES) was quoted in a [Reuters story](#) about carbon dioxide emissions, volcanoes and misinformation. Carn was among the experts cited to debunk a popular meme that falsely claims more carbon dioxide emissions are produced by volcanic eruptions than by human activity.

Charles Kerfoot (BioSci) was quoted by [MLive](#) in a story on the potential eco-disaster stamp sands pose to the Lake Superior coastline — and Buffalo Reef in particular.

Pengfei Xue (CEGE/GLRC) was quoted in a story published by [Bridge Michigan](#) on the expected rise of Great Lakes water levels heading toward 2050. Xue's research used advanced climate modeling with a 3D hydrodynamic model to simulate the lakes more accurately. Xue was also interviewed by Detroit Public TV for a story published by [Great Lakes Now](#), an initiative of DPTV and PBS. The story also ran on the front page of the [Traverse City Record-Eagle](#).

A statement by Kristin Brzeski (CFRES) was used in an [ABC News](#) story on research that supports reviving dwindling red wolf populations using "ghost" red wolf alleles present in coyotes. The red wolf is critically endangered, with only 20 to 30 left. The research was published June 29 in [Science Advances](#), with Brzeski listed as a co-author of the paper. The research was also highlighted by outlets including [Phys.org](#), [The Wildlife Society](#), [UK Today News](#), [MSN](#), [Yahoo! News](#), [New Scientist](#).

Roman Sidortsov (SS) was quoted by [AP News](#) in a story on hydroelectric pumped storage facilities' potential to help the U.S. transition from fossil fuels to renewable energy. The story, which references an October 2021 [Michigan Tech technical report](#) authored by Sidortsov, environmental and energy policy Ph.D. student Shardul Tiwari, Timothy Scarlett (SS), Ana Dyreson (ME-EM) and David Watkins (CEGE), was picked up by [ABC News](#). Sidortsov and Scarlett were also quoted by the [Ludington Daily News](#) in a story about how pumped underground storage hydropower, or PUSH, could be the key to a completely renewable energy grid.

X-F. EMPLOYEE SAFETY STATISTICS

EMPLOYEE SAFETY STATISTICS YEAR-TO-DATE

Jan - June 2021/2022

	Category	Years	Employee Classification							Total
			AFSCME	Faculty	Non-Exempt	POA	Professional	Temporary	UAW	
Number of Recordable Injuries	Injury Only w/Medical - No Lost Time	2021	1	0	0	0	3	0	0	4
		2022	0	0	0	0	0	0	0	0
	Lost Time Cases	2021	2	0	0	0	1	0	0	3
		2022	2	0	0	0	1	0	0	3
	Restricted Work Cases	2021	1	0	0	0	0	0	0	1
		2022	0	0	0	0	0	0	0	0
	Occupational Safety and Health Administration (OSHA) Recordable Injuries (Total of above)	2021	4	0	0	0	4	0	0	8
		2022	2	0	0	0	1	0	0	3
Number of Days	Injury Lost Time 3	2021	35	0	0	0	11	0	0	46
		2022	81	0	0	0	5	0	0	86
	Restricted Work Days 3	2021	30	0	0	0	0	0	0	30
		2022	0	0	0	0	0	0	0	0
Hours Worked	Total Work Hours	2021	112,503	359,288	43,196	7,809	520,716	30,929	77,000	1,151,441
		2022	113,423	360,006	43,051	8,067	526,710	29,348	70,384	1,150,989
	Percentage of Work Hours	2021	9.8%	31.2%	3.8%	0.7%	45.2%	2.7%	6.7%	100.0%
		2022	9.9%	31.3%	3.7%	0.7%	45.8%	2.5%	6.1%	100.0%
Rates	Lost Time Case Rate 1	2021	3.6	0.0	0.0	0.0	0.4	0.0	0.0	0.5
		2022	3.5	0.0	0.0	0.0	0.4	0.0	0.0	0.5
	Frequency Rate 2 (Recordable)	2021	7.1	0.0	0.0	0.0	1.5	0.0	0.0	1.4
		2022	3.5	0.0	0.0	0.0	0.4	0.0	0.0	0.5

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.

The Bureau of Labor Statics 2020 reports, for Colleges and Universities over 1,000 employees; the average LOST TIME CASE RATE of days away from the average LOST TIME CASE RATE of days away from work was 0.5 and the average FREQUENCY RATE was 1.2.

X-G. DISPOSAL OF SURPLUS PROPERTY

Michigan Technological University
Surplus Property Sales
April 1, 2022 - June 30, 2022

Date	Description	Amount
04/14/22	iPhone XR - 128GB	\$ 276.00
04/14/22	iPhone 7 - 32GB	40.00
04/14/22	2012 Dodge Grand Caravan SXT	3,425.00
Total		\$ 3,741.00