MINUTES OF THE FORMAL SESSION OF THE BOARD OF TRUSTEES OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call Ballroom B of the Memorial Union Building on the campus of Michigan Technological University in the City of Houghton, Michigan at nine o’clock on the morning of October 11, 2019.

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

The meeting was called to order by the Chair, B. Ryan, and a quorum was declared present.

The following members of the Board of Trustees were present:

B. R. Ryan, Chair
W. L. Johnson, Vice Chair
J. U. Bacon
R. J. Jacquart
L. D. Kennedy
J. C. Littmann
S. M. Tomaszewski (via conference phone)
R. J. Koubek, ex officio
S. Schulte, Secretary
S. Kerry, Treasurer

Also present during part or all of the session were: Julie Seppala, Bonnie Gorman, Jackie Huntoon, John Lehman, William Kordenbrock, Kellie Raffaelli, David D. Reed, William Roberts, Suzanne Sanregret; and various members of the faculty, administrative staff, student body, press and public.

Where item numbers are used, they refer to corresponding item numbers in the agenda, in the hands of the Board members.
I. CALL TO ORDER
Brenda Ryan, Chair

II. ROLL CALL
Sarah Schulte, Secretary for the Board of Trustees

III. APPROVAL OF AGENDA
It was moved by W. Johnson, supported by J. Littman, and passed by voice vote without dissent, that the agenda of the formal session of October 11, 2019, as distributed to the Board, be approved.

IV. OPENING REMARKS

IV-A. Chair’s Comments - Brenda Ryan, Chair
Good morning and thank you for joining us for Michigan Technological University’s Board of Trustees Meeting.

It is Fall again here at Michigan Tech. There is no more beautiful place on earth when the leaves are changing and we are grateful to be here.

As this is our first Board meeting since classes began, we would like to welcome the students back to campus. This morning, we had the opportunity to have quite a few students join us for breakfast. Learning about all our students are doing – inventing, designing, coding, gaming, working, traveling, competing, teaching, leading – is always a thrilling experience.

Today we will also have the opportunity to hear about some of our College of Computing faculty’s innovative and important research. In addition, following today’s session, we will have the opportunity to have lunch with some of the Distinguished and University Professors.

We are pleased to have some significant reasons to celebrate today:

- The new College of Computing is up and running.
- Our Provost, Jackie Huntoon, was appointed to Governor Whitmer’s prestigious Michigan Science, Technology, Engineering and Mathematics Education Advisory Council.
- Our esports team is launched and our head coach will soon be hired.
- Michigan Tech’s partnership with Northwestern Michigan College was formalized through seven articulation agreements that will allow engineering students to transfer to Tech as juniors.
- We have the highest academic achieving and most diverse incoming class in Michigan Tech’s history.
- And last but not least, we understand that the President’s Council’s cardboard boat did not sink. You didn’t win – but at least you made it back to shore.
Those are just a few milestones that demonstrate the positive forward momentum of Michigan Tech.

There is a lot of hard work going on at Tech right now. I would like to thank the leaders of the Tech Forward initiatives, the University Senate leadership, the President’s Council, and the other members of University leadership for their hard work. It sets the tone for the campus. As a Board, we recognize this and appreciate your determination to carry forward the institution’s strategic goals.

I would now like to invite President Koubek to provide his comments.

IV-B. President’s Comments - Richard Koubek, President

Chair Ryan, members of the board and guests, thank you for your time this morning.

I would like to begin today’s comments by recognizing the incredible team in place here at Michigan Tech. From our University Senate leadership, to our deans, department chairs, faculty, staff to the Board of Trustees and alumni. I consider myself fortunate to work with such dedicated and talented individuals. A friend of mine once told me, winners bet on winners. And like all teams -- we play to win. Yesterday at the Board of Trustees Leadership meeting I reported out on the 16 initiatives that the President’s Council is pursuing this year, which align with Michigan Tech’s vision to be...a premier national university positioned to lead the nation in the 4th Industrial Revolution.

I am not naive enough to think that these initiatives will be easy. But, that same friend had another quote, which is “tell me who is working the problem and I will tell you how it will end before it begins.” Knowing that the Michigan Tech community is working the problem” I am confident to say that it will end quite well.

And to my point, we are beginning the year with some early successes under our belt.

The fall 2019 incoming undergraduate class is up over 4 percent.

We are administering salary increases for faculty and staff. Freshman applications for next year are up substantially over last year at this time.

We are about to launch a national search for a Vice President for Diversity and inclusion. And, Sue Kerry, our CFO and Sr. VP of Administration is working with her team to develop a sustainable five-year budget plan that keeps tuition increases at a minimum through cost recycling, infrastructure modernization and innovative public/private partnerships.

I will be the first to say that these did not come without some sacrifice. But that’s the price we pay when playing the long game.

So, how do we define the win for Michigan Tech?

At its most fundamental level: students succeed.
The next few years in higher education are a time of transformation in how we operate, in how we teach and even how we conduct research and scholarship for all of us in higher education. At Michigan Tech we look forward to it. Thank you all for your commitment to our university.

V. PUBLIC COMMENT

There were no public comments at this time.

VI. COMMITTEE REPORTS

VI-A. Academic Affairs Committee Report, - Linda Kennedy, Chair

Linda Kennedy, Committee Chair, reported that Academic Affairs Committee met on October 10, 2019. The first topic of discussion was the action item to honor the retired professors Robert Johnson and Craig Waddell, with Emeritus status.

Dr. Dave Reed presented the Committee with the status of the Tech Forward Initiatives and the progress being made.

The Committee turned to old business to address the first-year retention rate and six-year graduation rate. Provost Huntoon explained how the Tech Forward Initiatives are supporting the University’s ongoing efforts to lift both of these numbers and help students succeed.

Lastly, they had lively discussions with their shared governance partners; the University Senate, graduate student government, and undergraduate student government. Chair Kennedy commented that we should be proud that the University supports analytical and respectful discourse.

VI-B. Audit and Finance Committee Report - Steven Tomaszewski, Chair

In Steve Tomaszewski’s absence, Jeff Littmann, the acting Committee Chair reported that the Committee met twice since the last Board Meeting. They reflected on last year’s review of the FY19 financial results and review the current year’s early enrollment and tuition data to begin planning for the next fiscal year. The external auditors discussed the FY19 results with the Committee, as well as the audit process itself and the internal control letter. Michigan Technological University and the Michigan Tech Fund both received clean audit opinions.

As part of the current year review, the Committee received an update on the Fall enrollment and tuition numbers. The Committee reviewed and discussed the 5-year Capital Outlay Plan and FY21 State Capital Project requests. The Committee also reviewed the FY21 budget planning parameters, as well as reviewing major budget categories going forward; the University balances future investments to support
continued best value execution, to promote growth, and enhance the fiscal health of the University.

Other items discussed during the Committee meeting were; the HSTEM and Capital Projects update; the non-mandatory transfers greater than $500,000; refunding analysis as it pertains to the University’s outstanding bonds; and an annual report on continuous improvement using Lean principles.

VI-C. Leadership Committee Report - William Johnson, Chair

Bill Johnson, Committee chair, reported that the Leadership committee met on October 12, 2019 with President Koubek. The Committee reviewed the appraisal criteria for President Koubek’s base salary and a bonus award for academic year 19-20. The committee and President Koubek discussed the sixteen initiatives that the President’s Council are actively working on this year. The committee also reviewed the process used by the President and the President’s Council to monitor the progress on the sixteen (16) initiatives as well to provide the Board with updates. The Committee appreciates everyone’s effort on achieving the sixteen (16) initiatives.

VII. CONSENT AGENDA

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the Board of Trustees approve and adopt the items contained in the Consent Agenda.

VII-A. Approval of Meeting Minutes

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the minutes of the formal session of August 1, 2019, as distributed to the Board, be approved.

VII-B. Degrees in Course

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the Board of Trustees approves awarding of the degrees as specified to each of the candidates listed, and offer congratulations.
MEMORANDUM

To: Sarah Schulte  
General Counsel and Secretary to the Board of Trustees

From: Theresa Jacques  
Registrar’s Office

Date: September 20, 2019

Subject: Degree Correction for March 1, 2019

An error has been identified in the Degrees in Course within the Board of Trustees minutes dated March 1, 2019. Brianna Lynn Neeb is listed as earning a Bachelor of Science in Scientific and Technical Communication. The record should be corrected to reflect that she earned a Bachelor of Arts in Scientific and Technical Communication.

Theresa Jacques  
Registrar

TJ: kph
MEMORANDUM

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

From: Theresa Jacques  
       Registrar's Office

Date: September 12, 2019

Subject: Candidates for Degrees – Conferral Term 201905

The attached list of candidates for degrees, beginning with Madison Taylor Vachon and ending with Cameron John Shock 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 Confer Term 201905

<table>
<thead>
<tr>
<th>Degree</th>
<th>Name</th>
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<td>Bachelor of Arts in English</td>
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<td>Damilton Luis Rochete Cubuia - Cum Laude</td>
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<td>Jeffrey Stephen Galla</td>
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<td>Bachelor of Science in Biological Sciences</td>
<td>Ciara Jane Bond - Summa Cum Laude</td>
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<td>Joy Lynne Collard</td>
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<td>Bachelor of Science in Chemical Engineering</td>
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<td>Jessica Ann Rogers</td>
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<td>Tyler Thomas Bredael</td>
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<td>Bachelor of Science in Computer Science</td>
<td>Sam A Celan*</td>
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<td>Andrew Steffen Dyke - Cum Laude</td>
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Bachelor of Science in Mechanical Engineering
Henry Emilio Friridge
Braeton Guy Arell
Jacob Michael Coughlin
Erik Robert DeJong
Joseph Nathaniel Dion
Dominic Joseph Fusco
Cooper James Heyne Minehart
Benjamin Thomas Joseph
Nils Alexander Justen - Summa Cum Laude
Jacob Thomas Karl
Samuel John Lacko
Marfah Meyers McLeod
Mitchell Joseph Neerad
Anthony John Rettsig
Jacob Richard Robinson
Andrew James Rose - Summa Cum Laude
Jesse Scott Hill
Timothy Ingram
Jacob Michael Smith
Sara Pauline Halonen
Aubrey J VanDrie
Connor Kenalley Henshaw
Nathan Sean Hierl
Sydney Doppke Micklas
Benjamin David Slade
Cody W Kunnari
Jacob L Lucchini
Matthew Alan Roy
Justin T Girskis
Tanner Michael Barnes - Magna Cum Laude
Steven Gerard Landry
Komal Kant Chandrakar
Rashmi Adhikari
Salil Sidharthan Karipott
Bradley David Nelson
David Paul Rosen
Bhaskar Halami
Wafa Abdulrazzaq Mazi
Shahien Shahsavari
Xin Yan
Ruizhe Si
Wyatt Kenneth Adams
Chong Cao
Elizaveta Olegovna Egorova
Robert John Zugko
Emily Woods Prehoda
Grace Louise Parikh
Michael Joseph Sayers

Bachelor of Science in Mechanical Engineering Technology
Bachelor of Science in Medical Laboratory Science
Bachelor of Science in Psychology
Bachelor of Science in Software Engineering
Bachelor of Science in Sports and Fitness Management
Doctor of Philosophy in Applied Cognitive Science and Human
Doctor of Philosophy in Atmospheric Sciences
Doctor of Philosophy in Biochemistry and Molecular Biology
Doctor of Philosophy in Biomedical Engineering
Doctor of Philosophy in Chemistry
Doctor of Philosophy in Civil Engineering
Doctor of Philosophy in Electrical Engineering
Doctor of Philosophy in Computational Science
Doctor of Philosophy in Environmental and Energy Policy
Doctor of Philosophy in Forest Science
Doctor of Philosophy in Geology
Degrees Awarded for Conferral Term 201905

Doctor of Philosophy in Industrial Heritage and Archaeology
Daniel Joseph Trepal

Doctor of Philosophy in Materials Science and Engineering
Matthew Neil Tianen

Doctor of Philosophy in Mathematical Sciences
Duo Zhang

Doctor of Philosophy in Mechanical Engineering - Engineering
Behdad Alkhani

Doctor of Philosophy in Physics
Guilherme Aramizio Ribeiro

Doctor of Philosophy in Rhetoric, Theory and Culture
Venkata Rajesh Chundru

Doctor of Philosophy in Statistics
Xin He

Master of Forestry in Forestry
Robert Scott Jane

Master of Forestry
Lauren Nicole Knop

Master of Geographic Information Science
Miles Benjamin Penhale

Master of Geographic Information Science in Geographic Information Science
Robert Alexander Schroeter

Master of Science in Accounting
Kai Zhang

Master of Science in Applied Cognitive Science and Human Factors
Stas Zinchik

Master of Science in Applied Geography
Chad Allen Brisbois

Master of Science in Applied Geography in Geographic Information Science
Silke Helga Feliz

Master of Science in Applied Geology
Yun Liu

Master of Science in Applied Geology
Zachary L Evans

Master of Science in Applied Geology
Ethan Carpenter Goss

Master of Science in Applied Geology
Mirko Nosach

Master of Science in Applied Geology
Douglas Irving Tyran

Master of Science in Applied Geology
Maria Kriyova

Master of Science in Applied Geology
Alexander Phillip Claerbout

Master of Science in Applied Geology
Erin Patricia Lipp

Master of Science in Applied Geology
James Curtis Henderson

Master of Science in Applied Geology
Christopher Lee Anderson

Master of Science in Applied Geology
Samuel Philip Knapp

Master of Science in Applied Geology
Josephine Amporsem

Master of Science in Applied Geology
Kevin Laurence Bertschinger

Master of Science in Applied Geology
Armin Kalita

Master of Science in Applied Geology
Eduardo Rodriguez-Feo

Master of Science in Applied Geology
Eric Marshall

Master of Science in Applied Geology
Wafa Fhad A Alharbi

Master of Science in Applied Geology
Pranav Rajendra Kalantri

Master of Science in Applied Geology
Hassan Raza

Master of Science in Applied Geology
Fel Xie

Master of Science in Applied Geology
Nabhajit Goswami

Master of Science in Applied Geology
Sarah Patricia Woshko

Master of Science in Applied Geology
Venkat Rahul Challapalli

Master of Science in Applied Geology
Jamie Lauren Berger

Master of Science in Applied Geology
Abheek Kumar Srivastava

Master of Science in Applied Geology
Priyansh Agarwal

Master of Science in Applied Geology
Madhura Shrikrishna Buchake

Master of Science in Applied Geology
Chirag Kamlesh Dave

Master of Science in Applied Geology
Neelima Katta Prabhakar Naidu

Master of Science in Applied Geology
Kalyan Kumar Kotturu

Master of Science in Applied Geology
Sal Shiva Mani Kanta Nandyala

Master of Science in Applied Geology
Andara Kostage Sachithra Suwimali Perera

Master of Science in Applied Geology
Robert Paul Richard

Master of Science in Applied Geology
Michigan Technological University
Degrees Awarded for Conferral Term 201905

Master of Science in Electrical Engineering
Vishal Bhawanishankar Arya
Evan John Gawron
Raakesh Raja Karuppiah Ramachandran
Shaonan Liu
Saurabh Singh
Vivek Vyasraj Sorab
Janna Lynn Brown
Chase Michael West
Rhiley Esther Allbee
Jeffrey M Selan
Lushi Wang
Anna Aldieghi
Francisco Perez
Kara Rose Donahue
Catherine Anne Calligan
Phillip David Staublin
Carson Foster Williams
Dhruv Dhanesh Thanawala
Chetan Sanjay Agarwal
Srivathsan Anandan
Arpit Aawathe
Manoj Balabadhruni
Laxmi Narayan Aditya Basina
Pushkar Jayant Bhalerao
Pradeep Krishna Bhat
FNU Deepak Jude Denny
Vidyaprasad Rajendra Desai
Anmol Sanjay Deshmukh
Abhishek Dinesh
Poonam Sahebrao Dongare
Nehal Doshi
Akash Dusane
FNU Gaganbir Singh
Navrose Handa
Daniel Joseph Jacobson
Erica Marie Jacobson
Akhilesh Arun Jadhav
Nihal Pandit Kapare
Dnyanesh Ajabrao Katre
Atharv Mahadeo Kolhar
Mihir Gunesh Kulkarni
Si Liu
Kartikeya Vineyak Lonkar
Meghana Madala
Roman Mahajani
Shaunak Prasad Mhatre
Sai Prudhvi Nagireddy
Siddhant Nigam
Michigan Technological University
Degrees Awarded for Conferral Term 201905

Hareesh Parepalli
Zakarie R Parker
Sharvil Shailendra Patankar
Venkata Satyanarayana Pendyala
Amey Ashok Pise
Ashna Sambhar
Amey Arvind Sawant
Akshat Sharma
Aditya Dinesh Shinde
Deellipkumar Manojkumar Singh
Tristan James Slabaugh
Samantha G Swartzmiller
Aditya Samir Trifaley
Hakan Hamza Uras
Vinay Kumar Rao Veeramaneni
Ayush Vijayvergiya
Chun Wang
Amarnath Ajit Warty
Cameron John Shock

Master of Science in Physics

*Addendum to Conferral:
Sam A. Celani degree awarded for term Spring 2019

VII-C. Gifts

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the Board of Trustees acknowledges the gifts to Michigan Technological University.
Michigan Technological University  
Michigan Tech Fund  
Fundraising Productivity Report  
July 1, 2019 through August 31, 2019  
Compared to Prior Year

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<thead>
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<th>Source</th>
<th>FY20 YTD Total</th>
<th>FY19 YTD Total</th>
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<td>Full Value New Planned Gift Commitments</td>
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<td>Annual Giving</td>
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<td>Foundations &amp; Other Organizations</td>
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<td>.03</td>
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<td>Gifts-in-Kind</td>
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<td><strong>Total</strong></td>
<td><strong>5.72</strong></td>
<td><strong>2.68</strong></td>
<td><strong>43.74</strong></td>
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<tr>
<td>Realised Planned Gifts</td>
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<td>.64</td>
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<td><strong>Grand Total</strong></td>
<td><strong>5.77</strong></td>
<td><strong>3.32</strong></td>
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</tbody>
</table>

--- Except for the Annual Fund, all totals include outright gifts and the full amount of new pledge commitments.  
--- Annual Fund includes cash from prior year pledges in addition to outright current year gifts and new pledge commitments due current year.  
--- An individual's gifts given through another source (i.e., family foundation or closely held business) are credited to the individual.

09/26/2019 08:09
VII-D. Resignations, Retirements, and Off Payroll

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the Board of Trustees accepts the resignations and confirms the off-payroll determinations.

BOARD OF TRUSTEES OFF-PAYROLL REPORT
(July 01, 2019 – September 14, 2019)

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Most Recent Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peggie Gordon</td>
<td>Staff</td>
<td>College of Computing</td>
<td>Executive Assistant</td>
<td>08/25/1976</td>
<td>08/30/2019</td>
</tr>
<tr>
<td>Maranne Olonen</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>09/17/1996</td>
<td>09/08/2019</td>
</tr>
<tr>
<td>Daniel Rowekau</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Building Mechanics II</td>
<td>07/14/1981</td>
<td>09/15/2019</td>
</tr>
<tr>
<td>Deborah Sheldon</td>
<td>Staff</td>
<td>Budget Office</td>
<td>Executive Director, Budget/Planning</td>
<td>04/01/1981</td>
<td>08/31/2019</td>
</tr>
<tr>
<td>James Wood</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Professor</td>
<td>04/30/1990</td>
<td>08/10/2019</td>
</tr>
</tbody>
</table>

RETIRED

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Most Recent Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zakariya Al Hamouz</td>
<td>Faculty</td>
<td>CNS/AMERETI/II Division</td>
<td>Lecturer</td>
<td>06/20/2016</td>
<td>08/16/2019</td>
</tr>
<tr>
<td>Abdul Nasir Al Ameen</td>
<td>Faculty</td>
<td>CNS/AMERETI/II Division</td>
<td>Professor</td>
<td>08/15/2005</td>
<td>07/31/2019</td>
</tr>
<tr>
<td>Samantha M. Auger</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Planned Giving Officer</td>
<td>07/18/2018</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Jason Carter</td>
<td>Staff</td>
<td>Vice President for Research</td>
<td>Associate Vice President for Research</td>
<td>09/04/2006</td>
<td>09/03/2019</td>
</tr>
<tr>
<td>Kathryn Carter</td>
<td>Staff</td>
<td>Neurology/Integrative Physiology</td>
<td>Academic Advisor &amp; Outreach Coordinator</td>
<td>09/15/2016</td>
<td>09/16/2019</td>
</tr>
<tr>
<td>Jessica Daul</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>09/10/2018</td>
<td>07/19/2019</td>
</tr>
<tr>
<td>John Estes</td>
<td>Faculty</td>
<td>School of Business and Economics</td>
<td>Assistant Professor</td>
<td>08/17/2015</td>
<td>08/01/2019</td>
</tr>
<tr>
<td>Zhao Feng</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>07/15/2006</td>
<td>06/11/2019</td>
</tr>
<tr>
<td>John Foreman</td>
<td>Staff</td>
<td>Soft Forest Resources &amp; Environment Science</td>
<td>Assistant Research Engineer/Scientist</td>
<td>09/19/1991</td>
<td>08/16/2019</td>
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<tr>
<td>Lucia Gauchova Babe</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics &amp; Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>09/19/2013</td>
<td>06/29/2019</td>
</tr>
<tr>
<td>Meriama Grokowski</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Coordinator/Writer</td>
<td>01/15/2018</td>
<td>08/20/2019</td>
</tr>
<tr>
<td>Ping Guo</td>
<td>Faculty</td>
<td>School of Business and Economics</td>
<td>Assistant Professor</td>
<td>06/17/2015</td>
<td>08/17/2019</td>
</tr>
<tr>
<td>Jena Hale</td>
<td>Staff</td>
<td>Chief Information Officer</td>
<td>Director of IT Business Operations</td>
<td>03/01/2012</td>
<td>08/02/2019</td>
</tr>
<tr>
<td>L. Syd M. Johnson</td>
<td>Faculty</td>
<td>Humanities</td>
<td>Associate Professor</td>
<td>08/15/2011</td>
<td>08/09/2019</td>
</tr>
<tr>
<td>Marc Meadwin</td>
<td>Staff</td>
<td>Biomedical Sciences</td>
<td>Academic Advisor</td>
<td>12/05/2016</td>
<td>07/19/2019</td>
</tr>
<tr>
<td>Taylor Mills</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>08/12/2019</td>
<td>06/27/2019</td>
</tr>
<tr>
<td>Keel Ong</td>
<td>Staff</td>
<td>Biomedical Engineering</td>
<td>Professor/Assoc Dept Chair</td>
<td>07/24/2006</td>
<td>08/15/2019</td>
</tr>
<tr>
<td>Shoshen Patchin</td>
<td>Staff</td>
<td>Career Services</td>
<td>Director</td>
<td>08/25/2006</td>
<td>07/05/2019</td>
</tr>
<tr>
<td>Sunit Paudyal</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>09/02/2012</td>
<td>06/17/2019</td>
</tr>
<tr>
<td>Travis Plancie</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>Chief Housing Officer/Director</td>
<td>06/04/2003</td>
<td>09/05/2019</td>
</tr>
<tr>
<td>Michael Piatnik</td>
<td>Staff</td>
<td>Auxiliary Services</td>
<td>Facilities &amp; Events Coord</td>
<td>07/21/2008</td>
<td>06/21/2019</td>
</tr>
<tr>
<td>Elizabeth Polk</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Principal Gifts Associate</td>
<td>08/18/2002</td>
<td>08/20/2019</td>
</tr>
<tr>
<td>Monica Rovano</td>
<td>Staff</td>
<td>AE Seaborn Mineral Museum</td>
<td>Office Assistant 6</td>
<td>01/16/2017</td>
<td>01/16/2017</td>
</tr>
<tr>
<td>Shosho Sedar</td>
<td>Staff</td>
<td>Biomedical Engineering</td>
<td>Departmental Coordinator</td>
<td>07/20/2017</td>
<td>07/10/2011</td>
</tr>
<tr>
<td>Louis Sereno</td>
<td>Staff</td>
<td>Deputy Chief Information Officer</td>
<td>System Administrator</td>
<td>07/15/2018</td>
<td>06/30/2019</td>
</tr>
<tr>
<td>Georgia Seaver</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>09/02/2011</td>
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Most Recent Hire Date: 08/16/1991
## OFF-PAYROLL (cont.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Most Recent Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jei Sun</td>
<td>Faculty</td>
<td>Mathematical Sciences</td>
<td>Assistant Professor</td>
<td>06/15/2016</td>
<td>06/09/2019</td>
</tr>
<tr>
<td>Kyle Sutea</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>03/12/2018</td>
<td>06/30/2019</td>
</tr>
<tr>
<td>Kamara Taylor</td>
<td>Faculty</td>
<td>Cognitive &amp; Learning Sciences</td>
<td>Lecturer</td>
<td>06/20/2018</td>
<td>06/15/2019</td>
</tr>
<tr>
<td>William Tembreull</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Senior Design Specialist</td>
<td>09/20/1976</td>
<td>09/06/2019</td>
</tr>
<tr>
<td>Ramesh Thakur</td>
<td>Staff</td>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>Research Scientist ii</td>
<td>10/31/2001</td>
<td>06/06/2019</td>
</tr>
<tr>
<td>Heather Tisdale</td>
<td>Staff</td>
<td>Provost Senior Vice President for Academic Affairs</td>
<td>Director, Intensive ESL Program</td>
<td>08/29/2016</td>
<td>07/05/2019</td>
</tr>
<tr>
<td>Eddy Trinklein</td>
<td>Staff</td>
<td>Mechanical Engineering-Mechanics Engineering</td>
<td>Research Engineer</td>
<td>06/20/2011</td>
<td>06/02/2019</td>
</tr>
<tr>
<td>Vassilissa Samoqudivina</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Graphic Design Specialist</td>
<td>12/05/2016</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Mahdi Shahbashri</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Associate Professor</td>
<td>08/20/2012</td>
<td>07/01/2019</td>
</tr>
<tr>
<td>Joshua Vandervoord</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>System Administrator</td>
<td>01/29/2018</td>
<td>07/26/2019</td>
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<tr>
<td>Shuai Wang</td>
<td>Faculty</td>
<td>Computer Science</td>
<td>Lecturer</td>
<td>01/01/2018</td>
<td>06/12/2019</td>
</tr>
<tr>
<td>Seyed Zekavat</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Professor</td>
<td>08/18/2002</td>
<td>06/17/2019</td>
</tr>
</tbody>
</table>
VIII. ACTION AND DISCUSSION ITEMS

VIII-A. Employee Recognition

It was moved by J. Bacon, supported by Johnson, and passed by voice vote without dissent, that the Board of Trustees adopts the Resolution of Appreciation for the individuals:

1.) Peggy Gorton – 43 years of service
2.) Daniel Rouleau – 38 years of service
3.) Deborah Sheldon – 38 years of service

VIII-B. Emeritus Rank

It was moved by Kennedy, supported by J. Bacon, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointments:

• Dr. Craig Waddell

• Dr. Robert Johnson
OFFICE MEMO

TO: Michigan Technological University Board of Trustees
FROM: Department of Humanities/School of Arts & Sciences
DATE: September 4, 2019

SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Humanities voted on September 4, 2019 to request that the Michigan Technological University Board of Trustees name Dr. R. Craig Waddell as Professor Emeritus upon his retirement on May 31, 2019.

During his 30 years on the faculty at Michigan Tech, Dr. Craig Waddell taught multiple sections of more than 30 different courses (frequently commended by the provost for receiving "an exceptional "Average of 7 Dimensions" student evaluation score," placing him in the top 10% of faculty university-wide); published research in book chapters and in highly respected journals in philosophy, rhetoric, science and technology studies, communication studies, and scientific and technical communication (Philosophy and Rhetoric, Social Epistemology, Science, Technology, & Human Values; The Quarterly Journal of Speech, Technical Communication Quarterly); post-tenure, published two edited collections: And No Birds Sing; Rhetorical Analyses of Rachel Carson's Silent Spring (held by approximately 1,400 WorldCat member libraries worldwide), Southern Illinois University Press, 2000; and Landmark Essays on Rhetoric and the Environment, Hermagors Press (an imprint of Routledge), 1993; developed new courses (e.g., Risk Communication and Introduction to Rhetoric) and new curricular (e.g., Minor in Diversity Studies, Minor in Journalism, Peace Corps Master's International in Rhetoric and Technical Communication); chaired 20 graduate student committees and served as a member of another 38; advised four student organizations (Student Pugwash, Society for Technical Communication [became the second-largest student chapter in the U.S.; won the Michigan Tech award for Most Improved Student Organization; and won several national awards from the Society for Technical Communication], The Michigan Tech Lode [won many state and national awards and won the Michigan Tech award for Most Improved Student Organization]; Dr. Waddell twice received the Michigan Tech award for Adviser of the Year] and Global City); directed the Scientific and Technical Communication Program, during which time enrollments in the program increased by 13 percent; served on and chaired numerous department and college committees; served as an active member of three Presidential Committees: Budget Reduction Advisory Committee (BRAC), Committee on the Michigan Tech Initiative for the Environment, and Committee to Enhance Campus and Community (chair); served on the University Senate for 9 years as Secretary, Chair of the Fringe Benefits Committee, and President; and was active in the community (e.g., as founder and president of the Houghton Middle School PTO).
Minutes of Formal Session – Emeritus Rank - October 11, 2019

Approved

Patti Sotirin, Interim Chair/Department of Humanities

David Hemmer, Dean/College of Sciences & Arts

Jacqueline Huntoon, Provost and Vice President for Academic Affairs

Rick Koubek, President

Date

9-4-2017

Date

9-5-19

Date

16 Sep 2017

Date

Sept 16, 2017
Michigan Tech

OFFICE MEMO

TO: Michigan Technological University Board of Trustees
FROM: Department of Humanities/School of Arts & Sciences
DATE: September 4, 2019
SUBJECT: Recommendation for Emeritus Status

The faculty of the Department of Humanities voted on September 4, 2019 to request that the Michigan Technological University Board of Trustees name Dr. Robert R. Johnson as Professor Emeritus upon his retirement on June 30, 2019.

Robert Johnson was Professor of Rhetoric and Technical Communication at Michigan Technological University for eighteen years. From 1999-2008 he served as department chair of the Humanities Department at MTU. His research interests include technical communication theory and history, rhetoric history, interdisciplinary theory and practice, usability research, and the history of atomic and nuclear development. He is the author of two single-authored books. His first book, *User-centered Technology: A Rhetorical Theory for Computers and Other Mundane Artifacts* (SUNY Press 1998), was awarded the 1999 “Best Book Award” from the National Council of Teachers of English for Publications in Technical and Scientific Communication. He also was awarded “Best Article on Philosophy or Theory in Technical and Scientific Communication” in 1998. His second book, *Romancing the Atom: Nuclear Infatuation from the Radium Girls to Fukushima* was published by Praeger Publishers in 2012 and received the NCTE award for “Best Book of 2014” in Technical and Scientific Communication. His publications have appeared in *College Composition and Communication, Technical Communication Quarterly, Computers and Composition, The Journal of Technical and Business Communication, The IEEE Transactions on Professional Communication, The Writing Instructor, The New Atlantis, The Believer*, and other journals and book collections. In addition, he was a coordinator of the Michigan Tech Humanities Department *Preparing Future Faculty Initiative* (funded through The Pew Trust, The National Council of Graduate Schools, and the NCTE)—one of six humanities graduate programs in the country chosen by NCTE to develop innovative approaches for the preparation of graduate students. He was the Secretary/Treasurer of the Council of Writing Program Administrators from 1996-99 and has served as a conference coordinator and proposal reviewer for a number of organizations. Previous to being at Michigan Tech, he was the Director of the Graduate Program in Technical and Scientific at Miami University-Ohio. He has chaired and/or served on over 80 Masters and PhD committees.
VIII-C. Contract Addendum

It was moved by J. Bacon, supported by J. Littmann, and passed by voice vote without dissent that the Board of Trustees approves the contract addendum for President Koubek.
Addendum to Employment Agreement

This Employment Agreement Addendum ("Addendum") is made a part of the agreement ("Agreement") entered into between Michigan Technological University (the "University") and Richard Koubek (the "President") (the University and President collectively, the "Parties") effective July 1, 2018.

The Agreement contains language that is confusing and contrary to the intent of the Parties at the time the Agreement was executed. This Addendum is intended to clarify the intent of the Parties and resolve the confusion that may be caused by the current language and to make evident the President’s option to direct that some or all of a performance bonus may be directed to the Michigan Tech Fund.

Recitals

A. Paragraph 3.2 of the Agreement states that the President may be awarded a performance bonus of $25,000 for the academic year ending June 30, 2019, and that the potential performance bonus may increase up to $5,000 each year, up to a maximum of $50,000, ending June 30, 2023.

B. If the President were to receive the maximum potential performance bonus under the language of Paragraph 3.2 of the Agreement, however, he would only be awarded $45,000 for the academic year ending June 30, 2023.

C. It was the intent of the Parties at the time the Agreement was executed that the President would be eligible for a performance bonus of $50,000 for the academic year ending June 30, 2023.

D. President would also like the ability to direct all or a portion of his performance bonus to the Michigan Tech Fund prior to it being paid to him for each Contract Year (July 1 to June 30) and to designate the scholarship or other purpose it benefits.

Therefore, the Parties agree to enter into this Addendum to the Agreement as follows:

Addendum Agreement

1. Paragraph 3.2 of the Agreement is modified to read as follows:

Performance Bonus. An at risk performance bonus of up to $30,000 for the first year and for each ensuing Contract Year (July 1 to June 30), increasing by $5,000 each Contract Year to a maximum of $50,000, may be paid to the President at the sole discretion of the Board. Any amounts paid pursuant to this Section 3.2 shall be paid to the President in a lump sum payment on or before November 1, 2019 for the first Contract Year (July 1, 2018 to June 30, 2019) and on or before each subsequent November 1 immediately following in succeeding Contract Years through July 1, 2023.
2. Nothing in this Addendum or in the Agreement binds the Board to award any performance bonus to the President, nor does it obligate the Board to award any particular amount of performance bonus up to the maximum amount set forth in Paragraph 3.2 should the Board determine a performance bonus is appropriate.

3. At the August 1, 2019, Board of Trustees formal session, President was awarded a performance bonus of $25,000. It was the intent of the Board of Trustees to award President his full performance bonus. Consistent with the language in paragraph 1 of this Addendum, President is awarded an additional $5,000 performance bonus for Contract Year July 1, 2018 to June 30, 2019, making his total performance bonus for that Contract Year $30,000.

4. At any time before a performance bonus given in accordance with the terms of the Agreement is paid out, President may direct that an amount equivalent to that of the performance bonus be provided to the Michigan Tech Fund. The President may, but need not, direct that the funds be utilized for a particular scholarship, program, or other purpose. If the President makes such direction, the funds will be provided to the Michigan Tech Fund as he directs in Honor of Richard & Valerie Koubek and the performance bonus for that Contract Year will be reduced by the amount directed to the Michigan Tech Fund.

5. This Addendum is incorporated into and is a part of the Agreement.

IN WITNESS WHEREOF, the President and the Board execute this Addendum, which has been approved by the Board of Trustees, effective as of the date executed by both Parties.

Michigan Technological University

Brenda Ryan, Chair
Board of Trustees

Richard Koubek
President

Date

Page 1 of 2
VIII-D. **Five-year State Capital Outlay Plan and FY2021 Capital Project Request**

It was moved by J. Littmann, supported by B. Jacquart, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointment.

VIII-E. **Approval of 2020 Meeting Dates**

It was moved by B. Jacquart, supported by J. Littmann, and passed by voice vote without dissent, that the Board of trustees accepts the 2020 meeting dates for the Board of Trustees meetings.

IX. **REPORTS**

A. Recruiting – John Lehman, Vice President for University Relations and Enrollment
2019 Undergraduate Recruitment Review
BOT - October 11, 2019

2019 Admissions Funnel - Freshmen

Michigan Tech
Minutes of Formal Session – Enrollment Report - October 11, 2019

Michigan Tech New Freshmen

Average: 1,219

New UG by School/College
Building the Inquiry Pool by Academic Profile: Some Perspective

National Distribution of ACT Scores

The need for strategic financial aid allocations has never been greater.

<table>
<thead>
<tr>
<th>ACT Range</th>
<th>Number</th>
<th>Percent</th>
<th>Mich. Tech Admits 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>33–36</td>
<td>62,565</td>
<td>3%</td>
<td>13%</td>
</tr>
<tr>
<td>28–32</td>
<td>233,804</td>
<td>12%</td>
<td>36%</td>
</tr>
<tr>
<td>24–27</td>
<td>345,252</td>
<td>17%</td>
<td>31%</td>
</tr>
<tr>
<td>20–23</td>
<td>486,693</td>
<td>24%</td>
<td>17%</td>
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<tr>
<td>16–19</td>
<td>523,179</td>
<td>26%</td>
<td>2%</td>
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<tr>
<td>13–15</td>
<td>311,829</td>
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<tr>
<td>≤12</td>
<td>66,716</td>
<td>3%</td>
<td>0%</td>
</tr>
</tbody>
</table>

49% of our admits come from 15% of the student test takers.

Recalibrated tiers for incoming class of 2019.
**2018-2019 Digital Marketing Campaign**

1. Achieve 25,000 unique visitors to MTU Tomorrow Needs website
   - **Result: 39,945**

2. Reach at least 10,000 posts reactions over the course of the campaign
   - **Result: 17,458**

3. Obtain 2,750 post shares on Facebook and Instagram
   - **Result: 2,307**

---

**Educational Outreach**

Goal: Aggressively establish market expansion-related partnerships to feed enrollment growth.

**K-12**
- School districts and administrators
- Career Tech Education
- Dual enrollment
- STEM lab/fab lab/Maker Space
- Curricular, programmatic, and auxiliary support
- STEM outreach and engagement

**Higher Education**
- Community college articulations
- University partnerships
- 3+1+1 and 2+2 agreements
- Curricular, programmatic, and auxiliary support
Review

2019 Cycle: Geographic Markets

- 50,000 seniors
- 80,000 juniors/sophomores

2020 Cycle: Geographic Markets

- 50,000 seniors
- Primary/Secondary markets
- 200,000 juniors/sophomores
  - ~107,000 Primary/Secondary
  - ~93,000 Expansion
Minutes of Formal Session – Enrollment Report - October 11, 2019

2020 Recruits

2020 Applicants (as of late Sept. 2019)
Projected
2020
Admissions
Funnel -
Freshmen
Thank you
B. Finance and Audit – Sue Kerry, Board Treasurer

Finance & Budget Report
Board of Trustees Meeting
October 11, 2019

Overview

- Statements of Net Position
- Statements of Revenues, Expenses and Changes in Net Position
- General and Current Fund Projected Revenues and Expenses
Statements of Net Position
As of June 30, 2019
(unaudited in thousands)

<table>
<thead>
<tr>
<th>Assets</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
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<tbody>
<tr>
<td>Current Assets</td>
<td>$ 41,333</td>
<td>$ 8,179</td>
<td>$ 49,512</td>
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<tr>
<td>Noncurrent Assets</td>
<td>$ 234,218</td>
<td></td>
<td>$ 234,218</td>
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<tr>
<td>Capital Assets, net</td>
<td>$ 56,511</td>
<td>$ 149,349</td>
<td>$ 205,860</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
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<td></td>
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<tr>
<td>Total Assets</td>
<td>$ 331,162</td>
<td>$ 157,528</td>
<td>$ 488,690</td>
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<td>Deferred Outflows of Resources</td>
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<td></td>
<td></td>
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<tr>
<td>Deferred Pension Amounts</td>
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<td>$ 7,009</td>
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<tr>
<td>Total Deferred Outflows of Resources</td>
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<td>$ 7,009</td>
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<td>Liabilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$ 30,948</td>
<td>$ 1,506</td>
<td>$ 32,455</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>$ 181,260</td>
<td>$ 5,613</td>
<td>$ 186,873</td>
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<tr>
<td>Total Liabilities</td>
<td>$ 212,206</td>
<td>$ 7,122</td>
<td>$ 219,328</td>
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<tr>
<td>Deferred inflows of Resources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$ 4,707</td>
<td></td>
<td>$ 4,707</td>
</tr>
<tr>
<td>Total Deferred inflows of Resources</td>
<td>$ 4,707</td>
<td></td>
<td>$ 4,707</td>
</tr>
<tr>
<td>Net Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>$ 141,106</td>
<td>$ -</td>
<td>$ 141,106</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>(19,848)</td>
<td>150,406</td>
<td>130,568</td>
</tr>
<tr>
<td>Total Net Position</td>
<td>$ 121,258</td>
<td>$ 150,406</td>
<td>$ 271,664</td>
</tr>
</tbody>
</table>

Statements of Revenues, Expenses and Changes in Net Position
As of June 30, 2019
(unaudited in thousands)

<table>
<thead>
<tr>
<th>Operating Revenues</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Tuition and Fees</td>
<td>$ 102,821</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants and Contracts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Activities</td>
<td>$ 5,383</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Activities</td>
<td>$ 9,734</td>
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<td></td>
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<tr>
<td>Student Residuum Fees</td>
<td>$ 18,821</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Operating Revenues</td>
<td>$ 188,756</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Expenses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$ 132,984</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$ 45,852</td>
<td></td>
<td></td>
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<tr>
<td>Student Financial Support</td>
<td>$ 13,567</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>$ 77,753</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Operating Expenses</td>
<td>$ 276,156</td>
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<td></td>
</tr>
<tr>
<td>Non Operating Revenues</td>
<td>$ 70,486</td>
<td></td>
<td></td>
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<tr>
<td>Other Revenues</td>
<td>$ 4,392</td>
<td></td>
<td></td>
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<tr>
<td>Change in Net Position</td>
<td>$ (6,525)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Position, Beginning</td>
<td>$ 278,180</td>
<td></td>
<td></td>
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<tr>
<td>Net Position, End</td>
<td>$ 271,664</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GENERAL FUND</td>
<td>CURREN'T FUND</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adjusted</td>
<td>June Actual</td>
<td>Original Projection</td>
</tr>
<tr>
<td>Revenues</td>
<td>$ 212,872</td>
<td>$ 209,804</td>
<td>$ 309,882</td>
</tr>
<tr>
<td>Expenses</td>
<td>($212,872)</td>
<td>($207,984)</td>
<td>($308,220)</td>
</tr>
<tr>
<td>Change in Net Position (without Pension &amp; OPEB Expense)</td>
<td>$ -</td>
<td>$ 1,820</td>
<td>$ 1,462</td>
</tr>
<tr>
<td>Less: Pension &amp; OPEB Expense**</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Change in Net Position (with Pension &amp; OPEB Expense)</td>
<td>$ -</td>
<td>$ 1,820</td>
<td>$ 1,462</td>
</tr>
</tbody>
</table>

* Original projection did not include estimates for investment income, pension or OPEB expense.

Note: Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.
C. Faculty Presentation – Institute for Computing and Cybersystems
Daniel Fuhrmann, Dave House Professor in Computer Engineering
Keith Vertanen, Associate Professor of Computer Science

MISSION

Create a scholarly environment for teaching and research in computing, information, and automation that is a reflection of contemporary technological innovation in industry and society at large.

ACIA STRUCTURE (ORIGINALLY): ECE Department + CS Department +EET and CNSA Programs in School of Technology

Promote research and learning experiences in the areas of mobile computing, cybersecurity, cyber-physical systems, and computer systems for the benefit of Michigan Tech and society at large.

ICC MISSION
Center for Computer Systems Research (CCSR) established in July 2011, Saeid Nooshabadi, Director

ICC established in May 2015, Min Song, Founding Director

Director: Tim Havens, William and Gloria Jackson Professor of Computer Systems

Staff: Karen Johnson, Communications Director and Staff Assistant

INSTITUTE HISTORY/OVERVIEW

Cyber-Physical Systems (CPS)
Cybersecurity (CyberS)
Data Systems (DataS)
Human-Centered Computing (HCC)
Scalable Architectures and Systems (SAS)

CENTERS AND RESEARCH AREAS
Minutes of Formal Session – Faculty Presentation - October 11, 2019

Ye "Sarah" Sun
Cyber-Physical Systems (CPS)
ASS'T. PROFESSOR, MECH. ENG.

Tim Havens
Data Systems (DataS)
DIRECTOR, ICC

Guy Hembroff
Cybersecurity (CyberS)
ASSOC. PROFESSOR, COLLEGE OF COMPUTING

Beth Veinott
Human-Centered Computing (HCC)
ASSOC. PROFESSOR, APPLIED COGNITIVE SCIENCE AND HUMAN FACTORS

Soner Onder
Scalable Architectures and Systems (SAS)

Michigan Tech CENTER DIRECTORS

ICC by the Numbers

Active Grants and Contracts $8,921,356 40 projects
New in FY19 Grants and Contracts $2,431,192 13 projects
Proposals Submitted in FY19 $13,845,445 37 projects

49 Members
15 Departments
5 Schools and Colleges

As of 6/30/19

Michigan Tech

College of Computing
• College of Engineering
• College of Sciences & Arts
• School of Business & Economics
• School of Forest Resources & Environmental Sustainability
• Civil & Environmental Engineering
• Cognitive Sciences & Human Factors
• Computer Science
• Data Science
• Electrical & Computer Engineering
• Geological & Mining Engineering
• Kinesiology & Integrative Physiology
• Management Information Systems
• Mathematical Sciences
• Mechanical Engineering
• Engineering Mechanics
• Medical Informatics
• Physics
• Psychology
• Social Sciences
Where are we going?

Path to $10 Million in 10 Years
Awarding Success-Supported Initiatives and Startups (ASSIST)

- Postdoc Fellows
- Research Scientists
- Micro Grants
- Proposal Grants
- Seed Grants
- Asst Dir for R&D
- Asst Dir for Business
- House Family Visiting Researchers
- Williams Seed Grants
- Seminar Series
- Travel Grants
- Communications Director
- Student Support

ICC Revenue = Gifts + IRAD Return

Keith Vertanen
Associate Professor, Computer Science

Future Interactions Group

- We create interactive systems that leverage uncertain input
  - Touchscreen gestures
  - Midair gestures
  - Speech recognition
  - Noisy single switch
  - Instrumented surfaces
### Future Interactions Group

- **Main themes:**
  - Improve interactions for people with permanent / situation disabilities
  - Post-mobile phone interactions
- **Group members:** 4 PhD students, 3 undergrad RAs (5 alumni)
- **Part of Human-Centered Computing (HCC) of the ICC:**

- **Goal 1:** Enhance the communication of people who are non-speaking

  - **Example:**
    - Augmentative and Alternative Communication (AAC) user is discussing a trip
    - System identifies conversation partner, adapting predictions to the partner
    - Speech recognition allows two-sided dialogue language modeling
    - Partner may also offer suggestions

NSF CAREER: Technology Assisted Conversations (2018)
• Goal 2: Enhance the communication of everyone
  • Example:
    — Person is wearing augmented reality (AR) smartglasses
    — AR app helps the person understand what the clerk said
    — AR app suggests likely responses

NSF CAREER: Technology Assisted Conversations (2018)

• Goal 3: Educate about AAC and natural language processing
  • Examples:
    — Women in Computer Science (WiCS) Summer Youth Program (SYP)
    — Explore Computer Science Research workshop
    — Paired classroom activity: one person speaks via a mobile app

NSF CAREER: Technology Assisted Conversations (2018)
• Goal: Enable typing on a table augmented with surface microphones
  — Built prototype inferring tap location by differential in signal arrival
  — Inferred location within on key-width
  — Coupled with a powerful auto-correction algorithm
  — User study: 15 words-per-minute at a low error rate
  — Used as preliminary results in an NSF CORE Small proposal

ICC Paul William Seed Grant: Sensing and Feedback for On-Body Input (2018), Co-PI Scott Kuhl

• Goal: Transform everyday surfaces into rich interactive surfaces
  — Enable efficient and ergonomic input in future VR and AR applications
  — Compare different algorithms for acoustic sensing of taps
  — Compare against camera and other wearable sensing approaches
  — Human-factors results on midair versus rigid surface interaction

• Goal: Faster mobile text entry for people with visual impairments
  — Improve common methods: tapping letters, gesturing words, and speech
  — Avoid errors with better audio and tactile feedback
  — Find errors by annotating uncertain portions of the text
  — Correct errors by combining probabilistic information from multiple sources

NSF: Improving Mobile Device Input for Users Who are Blind or Low Vision (2019),
Co-PI Shiri Azenkot (Cornell)

• Goal: Transform everyday surfaces into rich interactive surfaces
  — Enable efficient and ergonomic input in future VR and AR applications
  — Compare different algorithms for acoustic sensing of taps
  — Compare against camera and other wearable sensing approaches
  — Human-factors results on midair versus rigid surface interaction

• Goal: Transform everyday surfaces into rich interactive surfaces
  — Enable efficient and ergonomic input in future VR and AR applications
  — Compare different algorithms for acoustic sensing of taps
  — Compare against camera and other wearable sensing approaches
  — Human-factors results on midair versus rigid surface interaction


Keith Vertanen
Associate Professor, Computer Science

Future Interactions Group
• Improve interactions for people with permanent / situation disabilities
• Post-mobile phone interactions

- 283 billion words of text
- Crowdsourced dialogues
- Augmented reality smartglasses
- High performance computing

Data

Algorithms

Hardware

Humans

Statistical decoders
Recurrent neural network language models
Undergraduate Student Government (USG) Update

October 11, 2019
Melanie Thomas, U.S.G. President

Agenda

- USG Body
- USG Student Led Initiatives
- Goals for 2019-2020
USG 2019-20 Elections

- Executive Board
  - President - Melanie Thomas
  - Vice President - Zbigniew Bell
  - Treasurer - Leo Stelmaszek
  - Secretary - Zachary Olson

- Representative Positions
  - Added two College of Engineering representatives, three first year representatives and one third year representative
USG 2019-2020

USG Student Led Initiatives

- Career Fair Recess Proposal Follow-Up
- USG Financial Briefing + All About USG
- Meet Your Organization
- Experience Tech Fee Proposal
- Statewide Advocacy Day
- 1UP Conference
- USG Constitution Review
- Ways and Means Digitized Processes
Goals for 2019-2020

- Attending Registered Student Organization events on behalf of USG
  - Work to promote networking among Registered Student Organizations
- Improving Internal Committees and Delegating Liaison Positions across campus
  - Focus on productivity and instilling responsibility in student body members who want to do their role in student governance
- Expanding USG’s role on campus to offer more student led initiatives
  - Provide more than just financial support to Registered Student Organizations
- Note Revisions of USG Constitution

Questions?
E. Graduate Student Government, Apurva Baruah, President

Graduate Student Government of Michigan Tech

Apurva Baruah

Oct 11 2019

Board of Trustees
Michigan Technological University

Agenda

- Updates
  - Organisational Updates
  - Events
  - JED Campus

- Fall activities
  - Seminars & Workshops

- Travel Grants Report
Updates

- Travel Grants
  - No deadlines.
  - Accepted on a rolling basis, throughout the year.

- Equity in attendance policy for dept representatives

- MTU JED Campus
  - Liaisons on all 4 working groups
  - Campus-wide Environmental Scan w.i.p

Summer 2019 Softball

- 8 teams
- League Champions **Tools of Ignorance**
Enrichment

Alumni Breakfast Poster Session (Aug. 2)

Orientation 2019

International Student Welcome @ Chicago

- GSG, IPS, Alumni Association ~ 135 students
Orientation 2019

❖ GSG Orientation Picnic

Updates

New, redesigned Website!
Enrichment & Collaboration

Professional Development Workshops

- Career Fair prep for International Students
  September 16, 2019
- Graduate Student Networking
  October 9, 2019
- Innovation & Entrepreneurship
  December 4, 2019
- Publishing your research
  November 13, 2019

Academic Seminars

- Graduate Student Life Outside of Research
  September 11, 2019
- Time Management
  October 24, 2019
- Research Programming I (R/Excel/SigmaPlot)
  October 23, 2019

Enrichment & Collaboration

An 80,000 word thesis would take 9 hours to present.
Your time limit: 3 minutes

Three-Minute Thesis

1st place: $300
2nd place: $150
People’s choice: $100

Preliminary heats: MUB Ballroom
November 6, 2019

Final Round: Continental Fire Co.,
Downtown Houghton
November 6, 2019
Community

• First Friday Social:
  ○ By ROTC
  ○ Sept. 7
  ○ >300 attendees

Kayaking

Community

<table>
<thead>
<tr>
<th>Upcoming Events</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>September</strong></td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>First Friday Social</td>
</tr>
<tr>
<td><strong>October</strong></td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>Grad student networking</td>
</tr>
<tr>
<td><strong>November</strong></td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>PhD Thesis</td>
</tr>
<tr>
<td><strong>December</strong></td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Innovation and entrepreneurship</td>
</tr>
</tbody>
</table>
Advocacy

→ Grad life
  o GTA/GTI Time commitment survey
  o Cost of Living survey

→ JED Campus
  o Working group action items
  o Environmental Scan

Travel Grants

Summer 2019

- Total Applications: 41 (PhD - 29, MS - 12)
  - Presenting - 34 (PhD - 25, MS - 9)
  - Attending - 7 (PhD - 4, MS - 3)

  - Grant amount - $9,550
    - Presenting - $8,500 @ $250/student
    - Attending - $1050 @ $150/student

1.5x (2018)
Advocacy • Enrichment • Community

Thank You!!
F. University Senate, Michael Mullins, President

UNIVERSITY SENATE OVERVIEW

SENATE REVIEW OF 2018-19

• Record number of proposals dealt with (53)
• Passed faculty appointments for librarians and archivists
• Approved the return of the BS in Mining Engineering, and a new BS in Cybersecurity
• Approved a new Master’s in Engineering Management and Master’s of Science in Mechatronics
• Made progress on including improved benefits as part of the 5-year financial planning process
• Passed measure on quality of on-line courses
• Last-but-not-least voted to end “Tech time” starting in Fall 2020
BUSINESS FOR THE COMING YEAR

• Enhance visibility and influence for the senate. Improve communication with all constituents
• New academic program additions/deletions, including those coming from the new College of Computing
• Role in administrative searches (VP for Diversity, Dean of the Graduate School, etc.)
• Follow up on lecturer/research track sabbaticals
• On-line course, summer, and overload compensation. Ownership/copyright of online materials
• Revisit policy for quality of online classes

BUSINESS FOR COMING YEAR CONT.

• Initiate faculty workload analysis and appropriate faculty numbers
• Teaching evaluations: bias, “trolling”, correct questions, other evaluations
• Compensation – TRIP, salary equity, health benefits, retirement contributions
• Educational technology use/allocation across campus
• Follow up on grant proposal for textbooks and course material accessibility
• Examine the processes for supervisor training of professional staff
• Much more to come!
X. INFORMATIONAL ITEMS
A. Analysis of Investments

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Money Market Fund</td>
<td>$2,172,599</td>
<td>$2,176,818</td>
<td>0.19%</td>
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<tr>
<td>Equity Funds:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Core Equity Fund</td>
<td>9,503,043</td>
<td>9,416,659</td>
<td>1.19%</td>
</tr>
<tr>
<td>Commonfund Strategic Solutions Equity Fund</td>
<td>5,787,008</td>
<td>5,676,157</td>
<td>1.54%</td>
</tr>
<tr>
<td>Total Equity Funds</td>
<td>15,290,051</td>
<td>15,092,816</td>
<td></td>
</tr>
<tr>
<td>Fixed Income Funds:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate Term Fund</td>
<td>7,239,252</td>
<td>7,531,292</td>
<td>-0.11%</td>
</tr>
<tr>
<td>Commonfund Contingent Asset Portfolio</td>
<td>7,383,558</td>
<td>7,481,907</td>
<td>-0.02%</td>
</tr>
<tr>
<td>High Quality Bond Fund</td>
<td>5,685,866</td>
<td>5,697,534</td>
<td>0.20%</td>
</tr>
<tr>
<td>Total Fixed Income Funds</td>
<td>20,308,676</td>
<td>20,710,733</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$37,771,326</td>
<td>$37,980,367</td>
<td>0.56%</td>
</tr>
</tbody>
</table>

Current Asset Allocation:
- Money Market: 6%
- Equities: 40%
- Fixed Income: 54%
B. University Issued Bond Balance Reports

<table>
<thead>
<tr>
<th>Bonds Outstanding</th>
<th>Long-Term Outstanding Amount</th>
<th>Current Outstanding Amount</th>
<th>Total Outstanding</th>
<th>Original Issue Amount</th>
</tr>
</thead>
</table>
| Series 2008 Bond Issue (maturity 2038)  
Purchase of UPPCO Building  
Partial Funding of KRC Building  
MUB Ballroom Renovation | 4,935,000 | 155,000 | 5,090,000 | 15,880,000 |
| Series 2009A Bond Issue (maturity 2039)  
New Student Apartment Building  
Partial Funding of KRC Building | 14,305,000 | 445,000 | 14,750,000 | 18,235,000 |
| Series 2010A Bond Issue (maturity 2040)  
Great Lakes Research Center  
A.E. Seaman Mineral Museum  
KRC Building Purchase (Blizzard Building)  
Life Safety Improvements on Campus | 7,655,000 | 235,000 | 7,890,000 | 10,975,000 |
| Series 2012A Bond Issue (maturity 2034)  
Refunding of 2003 & 2004 Fixed Rate Bond Issues  
SDC Ice Plant and Partial Roof of SDC | 24,985,000 | 1,365,000 | 26,350,000 | 33,070,000 |
| Series 2013A Bond Issue (maturity 2036)  
Refunding 2006 Bond Issue  
Refunding partial 2008 Bond Issue | 10,570,000 | 665,000 | 11,235,000 | 14,265,000 |
| Series 2015A Bond Issue (maturity 2046)  
Daniell Heights Renovation  
Campus Dining Renovation  
Fuel Storage Tank Facility  
Chemical Storage Facility  
Chemistry Labs Renovation  
IT and Safety Systems Upgrades  
McNair Hall Bathrooms Renovation | 22,525,000 | 465,000 | 22,990,000 | 24,295,000 |
| Total - All Bond Issues | $84,975,000 | $3,330,000 | $88,305,000 | $116,720,000 |
C. Research and Sponsored Programs Reports

<table>
<thead>
<tr>
<th>Award Date</th>
<th>Principal Investigator</th>
<th>Co-PI(s)</th>
<th>Department</th>
<th>Center</th>
<th>Sponsor</th>
<th>Award Start Date</th>
<th>Award End Date</th>
<th>Award Amount</th>
<th>Anticipated Award Amount</th>
<th>Final Award Amount</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/31/2019</td>
<td>Henry Grunwald</td>
<td>Dong-Yun Whang,</td>
<td>Materials Engineering</td>
<td>UMSAC</td>
<td></td>
<td>8/2/2020</td>
<td>8/1/2021</td>
<td>1,000,000</td>
<td>$1000,000</td>
<td>$1000,000</td>
<td></td>
</tr>
<tr>
<td>8/26/2019</td>
<td>Jinbo Yang</td>
<td>Shrikrishna Satkunam, Rajeev Shankar</td>
<td>Mechanical Engineering</td>
<td>UTIAS</td>
<td></td>
<td>8/26/2019</td>
<td>8/25/2020</td>
<td>1,000,000</td>
<td>$1000,000</td>
<td>$1000,000</td>
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</tr>
<tr>
<td>10/15/2019</td>
<td>Jinbo Yang</td>
<td>Shrikrishna Satkunam, Rajeev Shankar</td>
<td>Mechanical Engineering</td>
<td>UTIAS</td>
<td></td>
<td>10/15/2019</td>
<td>10/14/2020</td>
<td>1,000,000</td>
<td>$1000,000</td>
<td>$1000,000</td>
<td></td>
</tr>
<tr>
<td>11/15/2019</td>
<td>Jinbo Yang</td>
<td>Shrikrishna Satkunam, Rajeev Shankar</td>
<td>Mechanical Engineering</td>
<td>UTIAS</td>
<td></td>
<td>11/15/2019</td>
<td>11/14/2020</td>
<td>1,000,000</td>
<td>$1000,000</td>
<td>$1000,000</td>
<td></td>
</tr>
<tr>
<td>12/15/2019</td>
<td>Jinbo Yang</td>
<td>Shrikrishna Satkunam, Rajeev Shankar</td>
<td>Mechanical Engineering</td>
<td>UTIAS</td>
<td></td>
<td>12/15/2019</td>
<td>12/14/2020</td>
<td>1,000,000</td>
<td>$1000,000</td>
<td>$1000,000</td>
<td></td>
</tr>
</tbody>
</table>

*Some amounts of equal or higher dollar amounts may be excluded from this list due to disclosure restrictions.*
### Pre-Proposals Submitted (excluded from Proposals Submitted figures below)

**FYTD 2018:** 52  
**FYTD 2019:** 77

### Proposals Submitted, Awards Received, Awards Submitted ($)

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>FY '19 as of 9/30</th>
<th>FY '19 as of 12/31</th>
<th>FY '20 as of 9/30</th>
<th>FY '20 as of 12/31</th>
<th>FY '21 as of 9/30</th>
<th>FY '21 as of 12/31</th>
<th>Awards Received ($</th>
<th>Variance $</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>61</td>
<td>55</td>
<td>48</td>
<td>21</td>
<td>7,373,285</td>
<td>4,283,808</td>
<td>3,089,399</td>
<td>72.1%</td>
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</tr>
<tr>
<td>National Science Foundation</td>
<td>156</td>
<td>179</td>
<td>46</td>
<td>54</td>
<td>8,819,557</td>
<td>8,248,635</td>
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<td>1.7%</td>
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</tr>
<tr>
<td>US Department of Agriculture</td>
<td>64</td>
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<td>47</td>
<td>59</td>
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<tr>
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<td>127</td>
<td>109</td>
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<tr>
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<td>Foreign</td>
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<tr>
<td>All Other Sponsors</td>
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<td>41.4%</td>
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<tr>
<td>Total</td>
<td>982</td>
<td>882</td>
<td>506</td>
<td>336</td>
<td>60,031,091</td>
<td>31,368,090</td>
<td>28,663,000</td>
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<td>27.2%</td>
<td></td>
</tr>
</tbody>
</table>

*This table includes direct, non-competitive funding from corporations, foundations, universities, and associations in support of academic programs, scholarships, fellowships, student design and enterprise research, youth programs, and special programs.*
## Michigan Technological University

**Total PRELIMINARY Research Expenditures by College/School/Division**

**Fiscal Year 2019 & 2018**

**As of June 30, 2019 Period 14 and June 30, 2018 Period 14**

<table>
<thead>
<tr>
<th>College/School/Division</th>
<th>Preliminary FY2019</th>
<th>Preliminary FY2018</th>
<th>Variance</th>
<th>%</th>
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<td>College of Engineering</td>
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<td>College of Science &amp; Arts</td>
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<tr>
<td>Great Lakes Research Center**</td>
<td>847,214</td>
<td>471,791</td>
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<td>Pavlis Honors College</td>
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<td>385,246</td>
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<tr>
<td>Keweenaw Research Center (KRC)</td>
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<td>Michigan Tech Research Institute (MTRI)</td>
<td>9,488,525</td>
<td>9,047,027</td>
<td>441,498</td>
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<td>School of Business &amp; Economics</td>
<td>1,559,796</td>
<td>1,411,668</td>
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<tr>
<td>School of Forest Resources &amp; Environmental Science</td>
<td>5,417,651</td>
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<td>492,435</td>
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<td><strong>Total</strong></td>
<td><strong>80,443,226</strong></td>
<td><strong>78,678,397</strong></td>
<td><strong>1,764,829</strong></td>
<td><strong>2.2%</strong></td>
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</table>

*Includes the Vice Presidents, Provost, and others who report to VP, Provost or the President. Except for the research institutes that report to the VPR.

**Includes GLRC department (non-academic researchers) expenditures only. All other GLRC center expenditures are shown in the researchers’ respective colleges.
D. Advancement and Alumni Relations

ADVANCEMENT AND ALUMNI ENGAGEMENT
MICHIGAN TECH UNIVERSITY BOARD OF TRUSTEES REPORT
October 2019

Advancement

- Fundraising is currently ahead of this time last year and on pace to make quarterly goal.
- Preparing for new wealth screening of constituents.
- Compiled all content for the FY19 report to donors and forwarded for printing.
- Partnered with Financial Aid to improve and refine the student scholarship recipient thank you communication efforts by focusing on branding and personalization.
- Planned and facilitated the annual Presidential Council of Alumnae (PCA) meeting on campus in September. Arranged for speakers and presentations to inform and engage members in ways that support and advance the University’s strategic plan.
- VP for Advancement is leading bi-weekly planning and funding meetings for the H-STEM building and project.
- Shaped strong collaborative efforts, especially around strategy discussion, between individual giving, corporate philanthropy, and foundations for giving opportunities.
- Advancement team members are having giving discussions with donors at gift levels from $25,000 to multi-seven-figure.
- Increased Advancement presence in schools and colleges and with advisory board and academy inductions.
- Data analysis and forecasting report and gift tables constructed for future fundraising growth and campaign preparation.
- Tactical timeline in place for Advancement and Alumni Engagement.
- Naming and gift acceptance policies in process.
- Completed first quarter strategy sessions with Directors of Advancement resulting in strategic scheduled moves, prioritized research needs, and progress planning toward fiscal year goals.
- MTF Annual and Regular meetings were held with election of new directors, committee members and officers. An orientation for new MTF board members was created and delivered.
- Presented at the Practical Planned Giving Conference about best practices in donor engagement and major gifts.
- Transitioned corporate gift processing to Michigan Tech Fund gift processing.
- Transferred corporate engagement information and data related to Tier 1 and Tier 2 corporate partners from Salesforce into Banner.
- Increased donor correspondence and gift agreement support to Directors of Advancement and AVP for Principal Gifts.
- 12 new planned gifts totaling $3.8 million
- $94,000 in realized planned gifts
- 25 illustrations, proposals, and gift agreements were provided for donors and advancement staff
Minutes of Formal Session – Advancement and Alumni Engagement Report - October 11, 2019

10/11/2019

- 12 executed gift agreements
- Documented Asks
  - 3 new MG Anticipated Asks = $253,500
  - 14 new MG Asks Made = $11,240,000
  - 2 PG Ask Made = $580,000
  - 3 PG Commitment Received = $2,951,027
  - 45 Cash Gifts Received = $1,588,300
- New planned gift eblasts resulted in seven direct donor-initiated contacts with giving discussions and increased traffic at www.mtulegacy.org.
- Onboarded and cross-trained support staff in prospect research and expense reimbursement.

Principal Gifts
- Working to close a $9+ million planned gift proposal along with a five-figure outright gift. This will be for scholarships for the College of Sciences and Arts, with an emphasis on the Physics, Chemistry and Math
- We have an outstanding multi-million dollar proposal. This includes endowed scholarships and endowed faculty positions, with a portion of it benefiting the school of Forest Resources and Environmental Sciences
- Working on a $1.6 million planned gift proposal, along with a 5 figure outright gift proposal. This proposed gift would be for equipment, endowed scholarships and faculty positions in the Geological Engineering department, with an emphasis in mining
- Working on a multi-million proposal for faculty position(s) in the College of Computing
- Working on a $1 million outright proposal for an endowed professorship in ME-EM

Foundation Relations
- Katie Buehner attended NFRI- Nonprofit Funder Research Institution Partnership in Washington DC
- Plexus Foundation $150,000 Agreement for naming of Plexus Student Lab finalized
- October campus visits from: the Annexstad Foundation, Portage Health Foundation Executive Board, McAllister Foundation Trustees, Michigan Health Endowment Fund program officer, and Thompson Foundation.
- Phase I Keck Foundation proposal, $1M, Lynn Mazzoleni, Will Cantrell, Daisuke Minakate, and Laura Brown
- Awarded the Randy Owsley Memorial and Portage Health Foundation Scholarships for Athletic Training Internships

Industry Engagement
- Established and deployed Corporate Council, chaired by Cody Kangas
  - Jim Baker, Brent Bums, Rick Berkey, Katie Buehner, Beth Williams
- Corporate Council developing movement strategies to deliver seven-figure philanthropic proposals to Presidential Top 10 Industry Partners within 18-24 months
Minutes of Formal Session – Advancement and Alumni Engagement Report - October 11, 2019

- President Koubek and Dean Minnerick engaged in strategic industry visits with executive sponsors at GM, Ford and FCA (July 16-17)
- Notable industry awards won (Q1):
  - Plexus: $150,000
  - GM: $110,000
  - ArcelorMittal: $61,500
  - Donald Engineering: $50,000
- Notable campus visits:
  - Dean Kamen, DEKA & FIRST Robotics
  - Dr. Edmund Schweitzer, SEL
- Actively consulting with academic departments to assist with refreshing and reimagining external advisory boards

Annual Giving

- Overall Annual Giving goal is $2.7 million. As of September 30, $462,805 (17% of goal) has been raised.
- Annual Fund (unrestricted) goal is $1.5 million. As of September 30, $154,379 (12% of goal) has been raised.
- Michigan Tech Student Foundation (MTSF) participated in:
  - Move In Day - selling Yooper candy bars to be delivered to students during the first week of school. $865 was raised for the Annual Fund scholarship.
  - Taste of Tech Traditions - promoted the Husky Bucket List by showing students tasks on the list that could be completed while at the event - to include sampling pickled eggs!
  - 906 Day - raffled off 906 themed prizes and talked to students about the Keweenaw
  - Homecoming - passed out towels during cardboard boat races which showed that the students had participated in #65 on the Husky Bucket List.
- Student call center started back on August 28. Calling athletics and those that gave last fiscal year but not yet this year and those that gave before but not last fiscal year or yet this year.
- Campus campaign kicked off in September with annual print piece going out.
- Working on mail pieces for the Presidents Club, Provost Club and athletics.
- Begun sending personal emails to last year’s 906 Club members thanking them for their membership and asking them to renew this year.

Alumni Engagement

- 453 alumni, students and friends attended the annual reunion, August 1-3. Close to 100 of those were alumni from the Golden M Class of 1969 and earlier. Class gifts totaled $745,639.
- The Alumni Board of Directors met on campus over Homecoming. They visited a number of departments to ascertain how alumni could help with departmental initiatives. They are launching a Chapter Ambassador program which will have board members more involved regionally to support chapter leaders. We anticipate a significant increase in regional activities as a result. The Board continues to support the Cardboard Boat Race participants by providing towels and this year, also built their own boat to compete in the races.
- Our monthly enewsletter is segmented for three audiences and continues to garner open and click rates that are significantly higher than the national average. Gold (up to 24 years old) 22% open, 14% click rate, Mids (35 to 59 years old) 28% open, 27% click rate and Legacy (60 and older) 34% open, 30% click rate. (Higher Education email benchmark: 15.89 Open rate, 7.22 click rate)

- Upcoming events: Red Wings Michigan Tech Night - December 15; Great Lakes International - December 30-31
E. Media Coverage

Media Report: July 15, 2019 to September 30, 2019
Michigan Technological University
Regular Meeting of the Board of Trustees
October 11, 2019

Overview

| Articles | 811 |
| Social shares | 202,436 |
| Average shares | 249 |
| Journalist shares | 570 |
| Journalist reach | 12.33M |
| Unique visitors per month (UVM) | 1.37B |

Between July 15 and September 30, 2019, a total of 811 articles mentioned Michigan Technological University.

News Media Report, Regular Meeting of the Board of Trustees, Oct. 11, 2019 - Articles
Those 811 articles were shared on social media more than 202,000 times.

News Media Report, Regular Meeting of the Board of Trustees, Oct. 11, 2019 - Article Shares

Journalists shared the articles on Twitter 570 times, resulting in a reach of more than 12.33 million people:

News Media Report, Regular Meeting of the Board of Trustees, Oct. 11, 2019 - Shares by Journalists
Those 811 articles were shared on social media more than 202,000 times.

Journalists shared the articles on Twitter 570 times, resulting in a reach of more than 12.33 million people:
News highlights:

The University's launch announcement of a varsity esports program was first reported by the Detroit Free Press and picked up by the Associated Press. Athletic Director Suzanne Sanregret was recently interviewed on Michigan Radio's Stateside.

- [https://apnews.com/7d46a27a6c64b45f9b9dd5302cd37ec5c1](https://apnews.com/7d46a27a6c64b45f9b9dd5302cd37ec5c1)

Other news highlights include coverage of the new College of Computing and Michigan Tech's ADVANCE program:


Research news highlights include coverage of Michigan Tech's drone research in US News and World Report and numerous other outlets:

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<tr>
<th>Date</th>
<th>Articles</th>
<th>UVM</th>
<th>Total Shares</th>
<th>Journals Share</th>
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<th>Professionals (Temporary)</th>
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<td>161</td>
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<td>292</td>
</tr>
<tr>
<td>Total Work Hours</td>
<td>2018</td>
<td>211,824</td>
<td>567,688</td>
<td>107,984</td>
<td>14,652</td>
<td>846,442</td>
<td>40,321</td>
<td>175,012</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>194,322</td>
<td>522,834</td>
<td>97,009</td>
<td>13,704</td>
<td>802,749</td>
<td>40,531</td>
<td>153,707</td>
</tr>
<tr>
<td>Percentage of Work Hours</td>
<td>2018</td>
<td>10.7%</td>
<td>28.8%</td>
<td>5.5%</td>
<td>0.7%</td>
<td>42.9%</td>
<td>2.5%</td>
<td>8.9%</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>10.6%</td>
<td>28.7%</td>
<td>5.3%</td>
<td>0.8%</td>
<td>44.0%</td>
<td>2.2%</td>
<td>8.4%</td>
</tr>
<tr>
<td>Lost Time Case Rate</td>
<td>1</td>
<td></td>
<td>2018</td>
<td>4.7</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.7</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>6.2</td>
<td>0.4</td>
<td>0.0</td>
<td>0.0</td>
<td>0.2</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Frequency Rate</td>
<td>2 (Recordable)</td>
<td>2018</td>
<td>6.6</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.2</td>
<td>0.0</td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>9.3</td>
<td>1.1</td>
<td>0.0</td>
<td>0.0</td>
<td>0.7</td>
<td>0.0</td>
<td>1.3</td>
</tr>
</tbody>
</table>

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 rates 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 reportable 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.
XI. OTHER BUSINESS

There was no other business at this time.

XII. DATE OF NEXT FORMAL MEETING: DECEMBER 13, 20

XIII. ADJOURN

It was moved by B. Jacquart, supported by J. Bacon, and passed by voice vote without dissent, that the meeting be adjourned.

__________________________
Secretary of the Board of Trustees

__________________________
Chair, Board of Trustees