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 20, 2017.

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 20th day of October. The place, hour, and date duly established and duly published for the holding of such a meeting.

The meeting was called to order by Chair, T. Woychowski, and a quorum was declared present.

The following members of the Board of Trustees were present:

T. J. Woychowski, Chair  
J. A. Fream  
R. J. Jacquart  
B. L. Johnson  
L. D. Kennedy  
B. R. Ryan  
D .D. Sanders  
S .M. Tomaszewski  
G. D. Mroz, ex officio

The following member was absent:

None

Also present during part or all of the session were Roberta Dessellier, Secretary of the Board;  
Julie Seppala, Treasurer; Les Cook, Vice President for Student Affairs and Advancement;  
Ellen Horsch, Vice President for Administration; Jackie Huntoon, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research, and various members of the faculty, administrative staff, student body, press and public.

The meeting opened with the Pledge of Allegiance.

Where item numbers are used, they refer to corresponding item numbers in the agenda, in the hands of the Board members.
I. APPROVAL OF AGENDA

It was moved by B. Johnson, supported by J. Fream, and passed by voice vote without dissent, that the agenda of the formal session of October 20, 2017, as distributed to the Board, be approved.

II. OPENING REMARKS

A. Chair’s Comments

Good morning. It is wonderful to be here and to see that the campus is vibrant and full of energy and activity as another new academic year is fully underway. It is great to be a part of this fine university.

Typically, when I think about the work of the board and the challenges that lay ahead for the university, my mind often turns to the many, varied and at times seemingly all-encompassing technological disrupters that lay on our horizon, and the immense and mostly unknown economic disruption that will follow in its wake. From cars and other forms of mobility that propel themselves autonomously, remarkable materials and manufacturing processes that challenge much of our established knowledge and practices, to medical and agricultural discoveries and innovation that transform much of our understanding and expectations of life and health care, to unfathomable computing power, data analytics and artificial intelligence powering these technological wonders, I do not think it much of an exaggeration to say, life as we know it will become radically different, and changed forever in this Fourth Industrial Revolution. Being a technological university MTU will continue to position itself to be on the leading edge in instruction and research aimed at discovering and forging these new technological discoveries and innovations, to solve critical problems and to create value while ensuring that they are fashioned in such a way that will allow us to create a more “sustainable, just and prosperous world”, as stated in our mission.

This morning however, I would like to offer my comments from another perspective, albeit with the same objective and under the same disruptive pressures. I would like to focus on our opportunity and duty to be a part of enhancing and accelerating the upward social and economic mobility of our students and the citizens of our State, a critical element as we continue to drive to foster a sustainable, just and prosperous world.

To a limited extent, I can speak to this topic of upward mobility from a first-hand experience. I recently discovered that my mother, the 13th of 14 children was the first one in her family to study past the 8th grade and she was the first one in her large family to graduate from high school. (Go Bad Axe High!). In similar fashion, I was the first Woychowski to attend and graduate from a University with a Bachelor’s degree. My mother’s upward mobility was markedly better than her siblings, and with my college education, mine was exponentially better than that of my parents. I owe much of my success and prosperity to a mechanical aptitude ingrained into me by constant exposure to the mechanical world, a work ethic
instilled upon me by my parents and an education conferred upon me by Michigan Technological University.

While I deeply appreciate the upward mobility that my education has brought me personally, I have become keenly aware of how important this effect is here in Michigan, and across our land. I think this upward mobility factor hits at the heart of two of our intertwined national challenges, 1.) Economic Inequality and 2.) Educational Inequality.

In data recently presented by Mr. George Mehaffy at the 2017 Governor’s State Universities Summit held in Kalamazoo this past August, Mr. Mehaffy shared some startling data regarding the income inequality in the USA between the years of 1970 to 2014, and Baccalaureate degree attainment by age 24 by family income quartiles for roughly the same time period. These data indicate that over the last 40 years, income inequality has trended consistently to the point that the top 1% of the population now owns 20% of the national wealth and the bottom 50% own 13% of the total. At the same time, with respect to attaining a higher education, 82.4% of the top quartile income families have earned a baccalaureate degree by age 24, while 8% of the bottom quartile families have attained a baccalaureate degree by the same age.

From these data, George shared a few findings of a study titled, Mobility Report Cards: The Role of Colleges in Intergenerational Mobility. Raj Chetty, Stanford University and NBER, et al. Jan 2017. Two findings of note were:

1. Income segregation across colleges is comparable to segregation across census tracts in the average American city
2. At any given college, students from low and high-income families have very similar earning outcome. Colleges effectively “level the playing field” across students with different socioeconomic backgrounds, whom they admit.

The idea drawn from these and other findings were compelling, “Fix Educational Inequality and You Also Fix Income Inequality”. He went further to show that there were other social and civic benefits that were attendant with a college degree, namely:

- Vote more frequently
- Volunteer more often
- Are healthier
- Use fewer social services
- Spend more time with their children

His summary was clear, that to achieve greater economic equality, civic participation and economic growth, Michigan needs to graduate more students, particularly low income, first generation and underrepresented minorities. This is a vitally important element to creating a just and prosperous world.

President Mroz took this issue head on with a letter that he sent to MTU alumni last April. Derived from the same Stanford study, he highlighted MTU specific performance in this regard. In his letter, he stated some very notable facts:
1. Less than 1% of our students come from families in the top 1% of household incomes, while 2.2% of our graduates end up in that household income group later in their careers.
2. About 38% of our students come from families in the top 20% of family income, while 61% of our graduates end up there later in life.
3. The chance of a student moving from the bottom 20% of household income, to the top 20% of household income is 47%.
4. 90% of our students receive financial aid in the form of merit and need based support.
5. 75% of our first-year students had more need than their counterparts at 11 of the other 14 Michigan public universities, and 13 of the state’s private colleges.

These numbers are indeed impressive, and from them you can see that Michigan Tech is indeed doing its share, (or more than its share) of supporting the fight against educational inequality, and thereby economic inequality. Results like this do not just happen, but they are the result of purposeful and methodical planning and execution. I am proud to be part of such an institution.

As a board, I believe that we should be pleased with these results, but not satisfied. Pleased, but not satisfied…

With respect to the inequality challenges, the hill is steep and there are still many miles to go. Access, retention and affordability remain critical parameters of managing the achievement of an education at MTU and its associated societal benefits.

We must relentlessly continue to pursue the recruitment of all of our incoming students, with a special eye kept focused on those of low-income families, first generation and underrepresented minorities. As important as recruitment efforts are, they by themselves are not enough. Our retention metrics are especially challenging, given that we are a technological university with limited fallback programs. This challenge should only double our resolve to extend every effort to make each and every student who has chosen Michigan Tech as their home, to prevail in their studies, and to succeed in their quest to achieve their imperative education. Early warning systems and intervention counter measures need to be refined and deployed to meet this need. I would ask the Academic Affairs Committee to place a special focus on this imperative and begin to develop plans to enable us to reach benchmark levels for retention. It’s a tough metric in a high rigor environment and we do not want to compromise our standards or quality to achieve a specific target. Tough, but an important effort to ensure the success of our students. We will need to keep working on the support infrastructure for our students, academically, socially and culturally. We have done a good job. How can we do it better?

We must also be ever vigilant with respect to the total cost of an education at Michigan Tech. State and Federal contributions to the cost of higher education have been ever shrinking. Much of the financial burden is ultimately placed on the shoulders of the students and their families in the form of tuition increases year over year. This is unsustainable, especially if we are to continue to place an emphasis on lower family income students. Continuous improvement and lean operating principles need to be exploited to cull waste out of our operations and education delivery systems and methods. Innovative business models and accelerated advancement efforts are required to find offsets for decreased State funding,
along with an enhanced presence at the State and Federal levels to ensure that Michigan Tech is being recognized and rewarded for the tremendous impact it has on both creating the technologies and innovative solutions to societies problems and challenges, creating value and economic business engines, and concurrently do it in such a way that more of our citizens are able to put themselves and their families on a prosperous trajectory. I would ask the Audit and Finance Committee to keenly focus their efforts in this regard and to develop budget plan proposals that would help address the ever-escalating cost pressures faced by our students and their families. The operating budget of an enterprise the size of Tech is complex and complicated with many important variables to consider. But I would ask that a concerted effort continue to be applied to help stem the tide of the ever-increasing cost of higher education.

As we achieve these objectives, we can be pleased that we have advanced this fine university in the fulfillment of its mission to “inspire our students, advances knowledge, and innovate to create a sustainable, just and prosperous world”. Beyond that, know that we will have been instrumental in fortifying the very bedrock of the moral values that make possible the existence of a well-ordered society that is both right and just, and a society where mankind can live together in harmony, one with another, and a land where the opportunity to better oneself, one’s family and one’s communities to prosper continues toward a brighter future. To that end, access, retention and affordability are critical elements deserving our full attention.

Thank you all for your service to Michigan Tech and I look forward to working with you as we strive to meet these challenges. Now I would like to turn the agenda to the President for his opening remarks.

B. President’s Comments

The results of a couple of recent national opinion surveys, one by the Pew Research Center and one from the Wall Street Journal/NBC reminded me of a quote, often attributed to the great American philosopher, Mark Twain: “It ain’t what you don’t know that will get you in trouble. It’s what you know for sure, that just ain’t so”.

Both polls and other media stories report that Americans are losing faith in the value of a college degree citing their perceptions of higher tuition costs, limited opportunities for graduates and graduates saddled with loans they can’t repay.

Unfortunately, polls like these ignore the variability in universities and programs and to no small extent, reflect the beliefs of those in media and government who attended one of bi-coastal elite private schools.

As one of my presidential colleagues noted at a recent meeting and I’ll paraphrase, it’s time that the country hears from the 20% of college presidents of the public universities who represent 80% of the students, rather than the 80% of the presidents that represent 20% of the students. Because acting on information and opinions that “just ain’t so” is just plain dangerous for the future of our kids and the country.
I’ve spoken in the past about the value of higher education that Michigan Tech provides to individuals and their families. Recent rankings that emphasize student outcomes, like those of Forbes, Money Magazine and the Wall Street Journal/Times confirm what we see on campus. Average starting salaries of Michigan Tech graduates are up to $63,400, and our fall career fair hosted over 1100 recruiters who conducted 4,382 interviews on the two days after the Fair. Our students are in demand for what they can do with what they know. And, as I tell the students, that by virtue of geography, the recruiters are not on the way to somewhere else and just stopping in; they are going out of their way to come to a place that is not all that easy to get to….and are happy to do it.

It’s no surprise then, that the Student Loan Report issued last week showed Michigan Tech's three-year loan default rate holding steady at 2.0% compared to a national average default rate of 11.3%. Peeling the onion a bit here:

Overall, Michigan Tech ranked #119 out of 1,900 schools reviewed in this report (in the top 6% for the lowest default rate). Among public institutions, Michigan Tech ranked #27 in the nation (top 2%). Nine of those 27 public institutions are med schools - back them out, and the alumni of Michigan Tech have the 18th LOWEST default rate in the country.

It gets even more interesting – I think everyone realizes that the ability to pay back is dependent on getting a job after graduation….. But it also has a lot to do with what your family income was when you came here.

Only three universities (UC-Irvine, George Mason, and Suny Geneseo) had a higher percentage of students qualifying for the federal Pell Grant than Michigan Tech. Looking at it this way, it's fair to say that Michigan Tech is one of the top four public institutions in the nation where students from modest to moderate financial means can get an education that gives them the ability to pay back their loans after graduation. No school on this list of 18 has a higher percentage of their student body taking out federal loans than Michigan Tech. Our students are a good investment for our nation from that point alone.

But what about the broader value to the country of those who persevere and graduate, particularly with a four-year or advanced degree? A report prepared by University of Maine economist Philip Trostel, commissioned and published by the Lumina Foundation, concluded that those with a bachelor’s degree or better are far less likely to use government services like Medicaid, food stamps or prisons, and are likely to put in more for Social Security than they take out. More specifically, Trostel’s report found:

- Those with a college degree earn more and pay significantly more in taxes than those without a college degree. Trostel found the present value of lifetime federal, state, property and sales taxes paid by an average individual with a high school education was about $135,000. For those with a bachelor’s degree, the contributions to taxes hit $328,000. And for those with an advanced degree, the tax payments totaled $443,000. Similar trends were going in payments to Social Security and Medicaid, those with an advanced degree paid more than double of those who earned a high school diploma.

- On the “use” side, the report examined the expense of programs commonly considered “welfare”: Medicaid, food stamps, reduced or free school lunches, cash
assistance, energy assistance, and housing subsidies. Those with a high school education receive about $54,000 in present value of lifetime public assistance. Those with a bachelor’s degree receive about $14,500 and those with an advanced degree about $9,300. Trostel saw the same trend in use of social insurance programs (unemployment, supplemental Social Security, disability, and workers compensation).

Trostel also calculated the public costs of incarceration, the cost to government for those without health insurance and the cost to the private sector for the uninsured.

The bottom line: Those with less than a high school diploma received $163,000 more in direct government programs than they paid in. Those with a high school diploma contributed $26,000 more in taxes than they received.

Those with a bachelor’s degree contributed $381,000 more than they received from direct government aid programs; with an advance degree, the contribution was nearly $550,000 more over a lifetime. (This doesn’t include the benefits of military spending, infrastructure, pollution prevention, national parks and forests and many other programs that benefit all Americans).

Trostel is up front with his caution that correlation does not necessarily equal causation, meaning that the reason college graduates earn more and cost less might not be solely because they earned a degree. But given how the business world values degree holders, the economic advantages of a degree to an individual are clear. And that value transfers to states and society as a whole.

At a time when government spending on social programs continues to attract public scrutiny, data collected outside of Trostel’s study add to the argument that a four-year degree encourages what many consider conservative American behaviors and values. Those with a degree are more likely to marry, start a business, volunteer and make a contribution to a charity.

It seems long overdue that we as a nation heed Mark Twain’s words of warning about what will get us in trouble, and in the process of forming opinions, we employ the contemporary lens provided by another great American, W. Edwards Deming; “In God we trust; all others must bring data”. Thanks for supporting the education of students at Michigan Tech!

III. COMMITTEE REPORTS

A. Academic Affairs Committee Report – Linda Kennedy

The Academic Affairs Committee met on October 19 to review three action items that will come before the Board of Trustees; appointment of Dr. Jinshan Tang in the School of Technology to Full Professor with Tenure; honorary degrees for James J. Parm and Robert G. White; and the review of revisions to the University Senate Constitution. The Committee endorsed all action items.
They also reviewed documents that related to AAC Strategic Question #4: “Are faculty personnel policies aligned and supportive of the strategic plan and its goals?” These documents were compensation strategy task force report; distinguished and university professors policies; Kaizen flow charts for the tenure and promotion process and the job description for a new position as assistant to the Provost for Academic Equity and Inclusion.

The Committee heard a report on student retention from John Lehman, Associate VP for Enrollment and University Relations. They also accepted the challenge put forth by the Chair of the Board of Trustees to improve first-year retention rates, which will be an ongoing project throughout the year.

The meeting ended with discussion with the University Senate and the GSG Presidents.

Provost Report
Dr. Jackie Huntoon provided an academic report to the Board which consisted of FY2017 undergraduate outcomes; FY2017 graduate outcomes and funding/support for our Master’s and PhD students; provided demographics of our faculty and researchers; as well as how many new tenured/tenure-track faculty and non-tenure track faculty are here this fall. She also highlighted a few research projects and awards given to our faculty.

Research and Sponsored Programs Report
Dr. Dave Reed provided the Board with a report on research which included sponsored awards; research expenditures; intellectual property/commercialization and corporate sponsorship. These are all unaudited reports at the time of the Board meeting.

Student Affairs and Advancement Report
Dr. Les Cook provided the Board with a report on student affairs and advancement which included statistics on fall enrollment broken down by student type, female enrollment, domestic student diversity and a chart on undergraduate enrollment change from 2012 to 2016. He also spoke about the Career Fair that was held in September; recent rankings by the Wall Street Journal, Forbes and Money Magazine; as well as the three year default rates by Michigan public institutions. He concluded his report with an advancement report showing total funds raised as of September 30, 2017.

B. Audit and Finance Committee Report – Steve Tomaszewski

The Audit and Finance Committee has met twice since the last board meeting. It is that time of year where we reflect on last year, review the current year early enrollment and tuition data and start planning for next fiscal year.

Our external auditors, represented by Randy Morse, a partner within the Andrews Hooper & Pavlik firm presented the fiscal year 2017 financial statements. The audit presentation included the audit process itself and the Internal Control and Management Letter. The University and the MTF received clean audit opinions.
Julie Seppala, the Treasurer to the Board of Trustees, will present a high-level review of the fiscal year 2017 financial results and our external auditor will then present their audit results after Julie’s presentation.

As part of the current year review, we received an update on the fall enrollment and tuition numbers, the committee had a presentation from the Common Fund to provide Investment Advisory & Treasury Management Services for the University Operating Investments.

In planning for next fiscal year the committee reviewed and discussed the proposed the Five-Year Capital Outlay Plan and 2019 State Capital Project Request, which is a statutory requirement for the Board of Trustees to approve the request and the plan. The Audit & Finance committee supports the approval of this action, which is item V.C.

Other items the Audit & Finance Committee discussed and reviewed:
- Capital Projects Update
- Non-Mandatory Transfers greater than $500k
- Annual Report on Continuous Improvement Using Lean Principles
- Potential Real Property Disposal

Treasurer’s Report
Ms. Julie Seppala provided the Board with the financial report which consisted of the condensed statement of net position, condensed statement of revenues, expenses and changes in net position; and the current fund projected revenues and expenses.

External Auditor’s Report
Mr. Randy Morse (Andrews Hooper Pavlik) reviewed the financial statements and management letter. Mr. Morse reported they have a good working relationship with Michigan Tech’s financial department and found no surprises with the audit. The results are an unmodified, clean opinion on the financial statements with no significant deficiencies or material weaknesses in internal controls. There were no findings in the uniform guidance audit; overall good results for the University.

C. Leadership Committee Report – Brenda Ryan

The Leadership Committee last met on August 2, 2017, and invited President Mroz to participate in the development of his performance expectations.

At yesterday’s (October 19, 2017) meeting of the Leadership Committee:

- President Mroz submitted his FY17 evaluation materials to the Committee on September 14, 2017, and provided an updated version on October 9, 2017.
- The Committee met in Executive Session to discuss President Mroz’s FY17 Annual Incentive Plan (AIP), and the evaluation materials he provided.
- The Committee met with President Mroz to discuss his FY17 self-assessment and the results.
• The Committee will provide a recommendation to the Board with respect to President Mroz’s “At Risk” Performance Bonus for FY17 during today’s closed session.
• The Committee will also bring forth a recommendation at the December meeting for a base salary adjustment for CY18 in conjunction with the University’s annual salary adjustment process.
• In addition, the Committee, with input from President Mroz, is in the process of developing the criteria for the FY18 (2017-2018) Annual Incentive Plan and Evaluation for the Board’s consideration.

D. Presidential Search Committee Report – Bill Johnson

Since the August meeting, the Presidential Search Committee (PSC) with the search consultants from Storbeck/Pimentel & Associates met three times, on September 13, 14, and 26, 2017.

The search consultants, Julie Tea and Brian Bustin, returned to campus in mid-September and met in 13 Town Hall meetings with faculty, staff, undergraduate students, graduate students, the focus group, Staff Council, University Senate, alumni, deans, chairs, directors, community members and other stakeholders to learn about the institution, and to solicit input for the Presidential search. Many of the PSC members also attended the Town Hall meetings. Storbeck also met in seven individual meetings with members from the Executive Team including the President and from University Marketing and Communication.

Brenda Ryan, Vice Chair of the PSC, and I met with the Executive Team members and other key campus leaders in nine individual meetings.

In total, Julie, Brian, Brenda and I participated in 33 meetings in less than 2 days. If you count Brenda and my introductions at each of the 13 Town Hall meetings, it was almost 46 times we interacted with the University community!

Julie Tea and Steve Leo joined the Chair of the Board of Trustees, Terry Woychowski, Brenda and I in two additional Town Hall meetings held in the Grand Rapids area on September 19 and in Ann Arbor on September 20. A Town Hall meeting was held on October 5 in Commerce Township for alumni and friends.

Brenda was the invited keynote speaker at the annual meeting of the Presidential Council of Alumnae on September 22 on campus. She provided an update on the presidential search and listened to the group’s thoughts and ideas regarding the next president.

A confidential survey, now closed, that was on the presidential search website provided helpful insights to Storbeck regarding the qualities sought in a new president with nearly 550 people responding.

The consultants, along with Michigan Tech’s marketing and communication’s team developed a Presidential Search website to provide updates and important information to the Michigan Tech community. The Presidential advertisement, prospectus, PSC minutes,
schedule of update meetings, a link to Storbeck for your nominations, and much more can be found on the site.

Brenda and I sent out an update memo on Oct. 9 to the University Community (all students, faculty, staff, alumni and community members), and we will continue to provide regular updates. The PSC and the focus group attended update meetings on Oct. 19. Brenda and I also held an update meeting for the general public on the same day. We have regular 30-minute check-ins with Storbeck, who are working hard with their outreach efforts to prospects.

The PSC is on track to meet our Committee Tasks as outlined in our charge from the Chair of the Board. We are planning to provide a slate of 2 to 4 Presidential semi-finalist candidates to the Chair of the Board of Trustees by late February.

Input from the entire Michigan Tech community is a key component for the search process to be inclusive and successful. The PSC appreciates all the input and support from the University Community.

IV. CONSENT AGENDA

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

IV-A. Approval of Minutes

It was moved by J. Fream, supported by R. Jacquart, and passed by voice vote without dissent, that the minutes of the formal session of August 3, 2017, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by J. Fream, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Bachelor of Arts in English
Rebecca Elise Forsberg
Cum Laude

Bachelor of Arts in Physics
Art Michael Rhodes

Bachelor of Science in Anthropology
Jakub F Williams

Bachelor of Science in Biochemistry and Molecular Biology
Nikolas Phillip Ditto

Bachelor of Science in Biological Sciences
Isaak Nikolai Ridge
Lindsey Marie Schen ten

Bachelor of Science in Biomedical Engineering
David David Driggers
Wendy Marie Storm Cloud Flowers
Justin James Hartstrom - Magna Cum Laude

Bachelor of Science in Chemical Engineering
Zachary James Little
Joel Edmund Redish - Cum Laude

Bachelor of Science in Civil Engineering
Nathan Patrick Clitech
Farren Kyle Fursch
Alexander John Ho Jitt - Magna Cum Laude
Wyatt Andrew Smith
Taylor L Wiegand - Summa Cum Laude

Bachelor of Science in Computer Engineering
Avery Mitchell Kish Bailey
Robert Al Kula

Bachelor of Science in Computer Network and System Administration
Christopher David Sege stack
Michael Joseph Tomaszewski

Bachelor of Science in Computer Science
Chetan Kumar Chariasty
Stuart James Gillette
James Conrad Kooke
Cory Wayne Kroe
Garret Theodore Patterson
Peter Dale Gilchrist Prins

Bachelor of Science in Construction Management
Britton Thomas Tortlace
Wengao Cal
Kevin David Kenwick

Bachelor of Science in Electrical Engineering
Richard Lee Fowler
Danielle Caroline Vlach
Norica Ann Drabek
Brittany Rose Frost
Alexander Francis Schultz

Bachelor of Science in Environmental Engineering
Andrea Margaret Belanger
Kelsey Marie Bird
Tatiana Lynn Bradley
Ronnie Mack Lane

Bachelor of Science in Exercise Science
Kelsey Jo Justin
Neil Alexander Wilczynski

Bachelor of Science in Finance
Morgan Rose Gast

Bachelor of Science in Forestry
John Thomas Danazzolo

Bachelor of Science in Geological Engineering
Erica Anderson
Nicole Ashley Bird
Candyn Marie Lucca - Magna Cum Laude
Russ Marie Oppolger
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Bachelor of Science in Management
Megan Armstrong

Bachelor of Science in Management Information Systems
Charles Richard Temple

Bachelor of Science in Materials Science and Engineering
Peter Johannes Hakemeir-Selm
Hao Qin

Bachelor of Science in Mathematics
Brent Andrew Baitus - Cum Laude
Steven Thomas Alvey

Bachelor of Science in Mechanical Engineering
Richard M Bennett
Cayman Bjorn Sunshine Berg-Morales - Cum Laude
Marta Marile Storm Cloud Flowers
Todd W Kriger
Jerad Arthur Marble
Jacob Allen Marklevitz
Justin David McPherson
Luke David Peters
Michael M Pfaff
Brenda Lee Sauer
Donald Richard Shaner
Jiaqi Tang
Elliot Steven Vickers

Bachelor of Science in Mechanical Engineering Technology
Kyle Tyler Hanson
Ryne Peter Has
Matthew D Luebke
Haan Arbab A Qazi

Bachelor of Science in Medical Laboratory Science
Audri Nicole Williams

Bachelor of Science in Operations and Systems Management
Frances Grace Lappeus Kalilo

Bachelor of Science in Scientific and Technical Communication
Estefanos Boms
Molly Elizabeth Wilder

Bachelor of Science in Social Sciences
Mary Bernadette Lebeaux

Bachelor of Science in Software Engineering
Gabriel Cooper Revells
Ryan Tze-Win Drife

Bachelor of Science in Sports and Fitness Management
Kylee Jean Larson - Cum Laude
Fen Yang

Doctor of Philosophy in Atmospheric Sciences
Li Chen

Doctor of Philosophy in Biochemistry and Molecular Biology
Hailping Liu

Doctor of Philosophy in Biological Sciences
Yiyue Gu
Yiping Ma

Doctor of Philosophy in Biomedical Engineering
Zichen Qian

Doctor of Philosophy in Chemical Engineering
Joseph A Heli
Zhichao Wang

Doctor of Philosophy in Chemistry
Olumide Ayodeji Winjolbi
Sarah Elisabeth Hupson

Doctor of Philosophy in Civil Engineering
Chao Zhang

Doctor of Philosophy in Computer Engineering
Siranne Rachprasitwich

Doctor of Philosophy in Electrical Engineering
Hanieh Delamsaleh
Saimaz Hajmohammadi
Zagros Shabooel

Doctor of Philosophy in Engineering - Computational Science
Chathura Jayath Gunasekara
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Doctor of Philosophy in Engineering - Environmental Engineering
  Wel Wel

Doctor of Philosophy in Environmental and Energy Policy
  Erin C Pischke

Doctor of Philosophy in Forest Molecular Genetics and Bioteck
  Sudhir Khodvekar

Doctor of Philosophy in Forest Science
  Sera Alfant
  Nicholas William Bolton
  Shawn T O'Neill

Doctor of Philosophy in Industrial Heritage and Archaeology
  John Peter Baetens

Doctor of Philosophy in Materials Science and Engineering
  Alex Pothak

Doctor of Philosophy in Mathematical Sciences
  Bryan Joseph Freyberg
  Mustafa Gezek

Doctor of Philosophy in Mechanical Engineering - Engineering
  Mohammed Reza Amiri
  Michael D Cook
  Muraleekrishnan Menon
  Muraleedharan Rair
  Matthew S Redige
  James Michael Sevko
  Michael Zhiguo Shen

Doctor of Philosophy in Phonics, Theory and Culture
  Yunana Ahmed
  Kostis Maria Iako

Master of Business Administration in Business Administration
  Andrew Alexander Gutierrez
  Xincheng Heng
  Abbey Janell Sencyczyn
  Yunding Sun
  Maryann Wilcox
  Congqing Zhu

Master of Engineering in Engineering
  Sabari Maranar Parackappan

Master of Science in Accounting
  James Schmidt
  Arisara Suth(indaowong)
  Brady James Tervo

Master of Science in Applied Ecology
  Kelsey Kristin Carter

Master of Science in Applied Science Education
  Eric John Engel
  Heather Kelly Murphy

Master of Science in Biological Sciences
  Tahiyat Abolaliz D Alolahm
  Erin Katherine Eberhardt
  Greendylyn Jacobson
  Sushant Satyamurthy Kolpaka

Master of Science in Biomedical Engineering
  Sandeep Challa

Master of Science in Chemical Engineering
  Prajyusha Peddikonda
  Jacob Conan Mathieu
  Soumiirth Kumar Oduru
  Dominic P Odorici
  Mohammed Khalid Samady
  Surbhi Thakur
  Ravi Teja Reddy Tippireddy

Master of Science in Computer Science
  Nupada Prashant Desvanderkar
  Jatin Leel
  Avinash Subramanian

Master of Science in Electrical Engineering
  Michael Joseph Brizeno
Michigan Technological University
Degrees Awarded for Conferral Term 201705

Master of Science in Environmental Engineering
Mukhtin Buyskinsabat
Mohi Darii Channaril
He Huang
Aniket Shrish Pradhan
Asthya Tiwari
Dharan Kaushik Trivedi
Kushal Vasnet
Venkata Pavan Kumar Reddy Kalam
Jul Anirudha Patankar
Lindsey Marie Welch
Miranda H Smith
Monica Harmon
Ari W Devens
Matthew James Widom
Monica Castro-Escobar
Jonathan Sanders
Matthew Scott Leird
Jacob Paul Trinesak
Zhongming An
Alexis Lynn Hare
Ta-Wel Chiu
Mitchell Dean Tahitian
PNU Aamir Ibrahim
Nithir Ramachandran Agthiloor
Guilherme Arambo Ribeiro
Shivs Bansal
Biswajit Bariki
Niketas S Srijak
Leslie Castelino
Venkata Rajesh Chandra
Varun Govind Deshpande
Trinh Datta
Jayesh Dwivedi
Sandesh Suresh Gandhi
Satyavanshika Naga Sai Sharath Gorthi
Neelesh Gupta
Vinay Harid
Robert A Hayes
Vimal Shashikant Ingavale
Suchit Vasari Jogi
Gana Venkata Chiranjeeva Kasina
Lauren Knopf
Siddharth Shripad Kohirsagar
Dhaval Bhikhubhai Ledaya
Sanil Khatri
Nikhil Reddy Pasula
Miles Benjamin Penhalet
Michigan Technological University

Degrees Awarded for Conferral Term 201705

Apoov Prem
Omkar Dhitip Kande
Akshat Abhay Raet
Varan Purandar Salian
Aatif Yas Ahok Sharma
Hemant Kumar Sharma
Sagar Sharma
Dylan Thomas Truskotusk
Shreevah Ziaefard
Michael James Gehhardt
Richard Lee Ward

Master of Science in Physics
Master of Science in Rhetoric, Theory, and Culture

Michigan Technological University
Student Affairs and Advancement Information Systems
9/15/2017
IV-C. Gifts

It was moved by J. Fream, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Trustees acknowledges the gifts to Michigan Technological University.

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IV-D. Resignations, Retirements and Off Payroll

It was moved by J. Fream, supported by R. Jacquart, 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 8, 2017 – September 30, 2017)

## RETIRED

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Besson, Sherri</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>09/22/1995</td>
<td>07/28/2017</td>
</tr>
<tr>
<td>Cattelino, Peter</td>
<td>Staff</td>
<td>Innovation &amp; Industry Engagement</td>
<td>Associate Director, Strategic Partnerships for Industry Relations</td>
<td>02/12/1995</td>
<td>07/27/2017</td>
</tr>
<tr>
<td>Conratovich, James</td>
<td>Staff</td>
<td>Kewaenaw Research Center</td>
<td>Custodian</td>
<td>05/03/1999</td>
<td>09/29/2017</td>
</tr>
<tr>
<td>Maatta, Robert</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Professor of Practice</td>
<td>08/12/2007</td>
<td>08/01/2017</td>
</tr>
<tr>
<td>Sickler, Beth</td>
<td>Staff</td>
<td>Materials Science and Engineering</td>
<td>Departmental Coordinator</td>
<td>07/16/1984</td>
<td>06/18/2017</td>
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## OFF-PAYROLL

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahn, Yushin</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Assistant Professor</td>
<td>08/07/2011</td>
<td>08/11/2017</td>
</tr>
<tr>
<td>Anderson, Sherry</td>
<td>Staff</td>
<td>Physics</td>
<td>Office Assistant 5</td>
<td>01/18/2010</td>
<td>07/14/2017</td>
</tr>
<tr>
<td>Bandi, Chandan</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Front End Developer</td>
<td>06/19/2017</td>
<td>07/31/2017</td>
</tr>
<tr>
<td>Bickford, Tonia</td>
<td>Staff</td>
<td>Student Affairs Info Systems</td>
<td>Systems &amp; Data Analyst</td>
<td>10/22/2014</td>
<td>09/30/2017</td>
</tr>
<tr>
<td>Bump, Joseph</td>
<td>Faculty</td>
<td>School of Forest Resources &amp; Environmental Sciences</td>
<td>Associate Professor</td>
<td>08/03/2009</td>
<td>08/19/2017</td>
</tr>
<tr>
<td>Chosa, Peter</td>
<td>Staff</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Engineering Academic Advisor I</td>
<td>07/11/2018</td>
<td>09/07/2017</td>
</tr>
<tr>
<td>Ekolle, Elvis</td>
<td>Staff</td>
<td>Enterprise Application Services</td>
<td>Database Administrator</td>
<td>04/10/2017</td>
<td>08/07/2017</td>
</tr>
<tr>
<td>Gershenson, John</td>
<td>Faculty</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Professor</td>
<td>06/01/2000</td>
<td>08/14/2017</td>
</tr>
<tr>
<td>Gutierrez, Andrew</td>
<td>Staff</td>
<td>Financial Aid Administration</td>
<td>Financial Aid Manager</td>
<td>06/09/2014</td>
<td>09/08/2017</td>
</tr>
<tr>
<td>Hanson, Margaret</td>
<td>Staff</td>
<td>AE Seaman Mineral Museum</td>
<td>Assistant Director, Museum</td>
<td>04/10/2017</td>
<td>08/28/2017</td>
</tr>
<tr>
<td>Hu, Shiyang</td>
<td>Faculty</td>
<td>Electrical and Computer Engineering</td>
<td>Associate Professor</td>
<td>12/20/2007</td>
<td>09/03/2017</td>
</tr>
<tr>
<td>Iteuter, Erik</td>
<td>Coach</td>
<td>General Athletics</td>
<td>Assistant Coach Football</td>
<td>03/13/2006</td>
<td>07/28/2017</td>
</tr>
<tr>
<td>Isaacson, Jillian</td>
<td>Staff</td>
<td>Mechanical Engineering-Engineering Mechanics</td>
<td>Office Assistant 5</td>
<td>01/04/2010</td>
<td>07/05/2017</td>
</tr>
<tr>
<td>Juntunen, Arjay</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Groundsperson</td>
<td>12/05/2016</td>
<td>09/09/2017</td>
</tr>
<tr>
<td>Kasza, Maria</td>
<td>Coach</td>
<td>General Athletics</td>
<td>Assistant Coach Women's Basketball</td>
<td>05/16/2012</td>
<td>08/17/2017</td>
</tr>
<tr>
<td>Kinnunan, Curtis</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>01/02/2017</td>
<td>08/15/2017</td>
</tr>
<tr>
<td>Laplender, Adam</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>Administrative Aide 8</td>
<td>06/22/2015</td>
<td>08/19/2017</td>
</tr>
<tr>
<td>Littlefield, Jeremy</td>
<td>Staff</td>
<td>Visual &amp; Performing Arts</td>
<td>Scene Shop Supervisor</td>
<td>08/17/2015</td>
<td>07/01/2017</td>
</tr>
<tr>
<td>Lu, Jiang</td>
<td>Staff</td>
<td>Physics</td>
<td>Assistant Research Scientist</td>
<td>01/19/2012</td>
<td>06/30/2017</td>
</tr>
</tbody>
</table>
**OFF-PAYROLL Continued**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>Title</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merryman, Kam</td>
<td>Staff</td>
<td>IT Operations</td>
<td>Application Programmer Analyst</td>
<td>05/03/2010</td>
<td>09/25/2017</td>
</tr>
<tr>
<td>Miller, Zoe</td>
<td>Staff</td>
<td>Institutional Analysis</td>
<td>Planning Analyst II</td>
<td>02/01/2016</td>
<td>08/11/2017</td>
</tr>
<tr>
<td>Nelson, Lisa</td>
<td>Staff</td>
<td>Academic &amp; Community Conduct</td>
<td>Office Assistant 5</td>
<td>01/20/2015</td>
<td>07/21/2017</td>
</tr>
<tr>
<td>Purchase, Katherine</td>
<td>Staff</td>
<td>Housing and Residential Life</td>
<td>Office Assistant 6</td>
<td>08/01/2016</td>
<td>08/11/2017</td>
</tr>
<tr>
<td>Rubino, Nicole</td>
<td>Staff</td>
<td>Graduate School</td>
<td>Office Assistant 4</td>
<td>01/05/2016</td>
<td>09/15/2017</td>
</tr>
<tr>
<td>Tarshizi, Ebrahim Karimi</td>
<td>Faculty</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Assistant Professor</td>
<td>12/01/2014</td>
<td>08/17/2017</td>
</tr>
<tr>
<td>Wang, Xinli</td>
<td>Faculty</td>
<td>School of Technology</td>
<td>Associate Professor</td>
<td>08/17/2008</td>
<td>08/06/2017</td>
</tr>
<tr>
<td>Yofe, Kristina</td>
<td>Staff</td>
<td>Wadsworth Hall Food Service</td>
<td>Food Service Helper</td>
<td>08/01/2016</td>
<td>09/05/2017</td>
</tr>
<tr>
<td>Zhou, Wen</td>
<td>Faculty</td>
<td>Chemical Engineering</td>
<td>Assistant Professor</td>
<td>08/08/2010</td>
<td>08/12/2017</td>
</tr>
<tr>
<td>Zink, John</td>
<td>Staff</td>
<td>Residential Dining</td>
<td>Food Service Helper</td>
<td>01/18/2016</td>
<td>03/26/2017</td>
</tr>
</tbody>
</table>

**IV-E. 2018 Meeting Dates**

It was moved by J. Fream, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Trustees approves the 2018 Board of Trustee Meeting Dates as presented.

- **Friday, February 23, 2018**
- **Friday, May 4, 2018** (Commencement – Saturday, May 5)
- **Thursday, August 2, 2018** (Alumni Reunion)
- **Friday, September 28, 2018** (Homecoming)
- **Friday, December 14, 2018** (Commencement – Sat., December 15)
V. ACTION/DISCUSSION ITEMS

V-A. Appointment, Involving Tenure/Promotion

It was moved by J. Fream, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees approves the appointment of Dr. Jinshan Tang to Full Professor with Tenure.

V-B. Honorary Degree

The Administration is recommending that Mr. James J. Parm and Mr. Robert G. White be awarded Honorary Doctorate of Philosophy degrees.

Mr. James J. Parm was appointed President and Chief Executive Officer of Stratos in 2003 and held that position until his retirement in 2013. He oversaw the strategic direction and global operations of this $500+M global satellite service company. Prior to his position as CEO, he served for three years as Stratos’ Chief Operating Officer. Before joining Stratos, Mr. Parm was President and Chief Executive Officer of Shell Offshore Services Company where he led strategy development and execution for the telecom startup, which provided remote communications services to the energy industry.

Mr. Parm has a Bachelor of Science degree in Electrical Engineering from Michigan Tech. He is a member of the Electrical and Computer Engineering Academy; a member of the President’s Advancement Council and a former member of the Michigan Tech Fund Board of Trustees. Mr. Parm will be the Fall Commencement speaker.

Mr. Robert G. White is a long-time Trustee of the John Edgar McAllister Foundation. Mr. White has been instrumental in continuing Mr. McAllister’s wishes of providing scholarships for Canadian citizens who wish to enroll in engineering and/or science at the undergraduate or graduate level at Michigan Tech. He was also instrumental in directing the McAllister funds to assist the University in building a Welcome Center that houses the University Admissions Office. Mr. White held the position of CFO at the University of Toronto, retiring in 2001; and served on the Board of the Niagara District Airport.

It was moved by B. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. James J. Parm and the awarding of an Honorary Doctorate of Philosophy degree to Mr. Robert G. White.

V-C. Five-Year State Capital Outlay Plan and FY2019 Capital Project Request

The Five-Year State Capital Outlay Plan and FY2019 Capital Project Request is required to be submitted to the State of Michigan this fall with Board of Trustees approval.
It was moved by J. Fream, supported by S. Tomaszewski, and passed by voice vote without dissent, that the Board of Trustees approves the Five-Year State Capital Outlay Plan and FY2019 Capital Project Request to be submitted to the State of Michigan.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000's)</th>
<th>State Funds (000's)</th>
<th>Est. Const. Univ. Funds (000's)</th>
<th>Start/End Dates (Years)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>H-STEM Engineering and Health Technologies Complex – Phase I</td>
<td>68,000</td>
<td>47,000</td>
<td>$44,700</td>
<td>$29,700</td>
<td>$15,000</td>
<td>2019/2022</td>
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<tr>
<td>2</td>
<td>Integrated Student Maker Spaces</td>
<td>30,000</td>
<td>50,000</td>
<td>$27,000</td>
<td>$20,250</td>
<td>$6,750</td>
<td>2020/2023</td>
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<tr>
<td>3</td>
<td>H-STEM Engineering and Health Technologies Complex – Phase II</td>
<td>100,000</td>
<td>48,000</td>
<td>$74,200</td>
<td>$55,650</td>
<td>$18,550</td>
<td>2021/2024</td>
</tr>
</tbody>
</table>

**Capital Projects Description**

1. The H-STEM Engineering and Health Technologies Complex (Phase I), hereafter referred to as simply the H-STEM Complex, will support Michigan Tech's integrated educational programs that apply engineering and science to improve the human condition. Michigan Tech's STEM-focused niche allows it to contribute to development of human-centered technologies (e.g., therapeutic devices, instruments, sensors, and preventative strategies) through research, development, and education for its students. The planned H-STEM Complex will include shared and flexible laboratory spaces, co-located with renovated classrooms and learning spaces within an existing building (Chemical Sciences and Engineering), that will meet industry standards for safe operation and the training of students. The H-STEM Complex will permit teams of researchers and students from Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Electrical and Computer Engineering, Materials Science and Engineering, Biology, Chemistry, Cognitive and Learning Sciences, Computer Science, and Kinesiology and Integrative Physiology to work together in collaborative space with shared equipment. The estimated investment of $44,700,000 will allow Michigan Tech's engineers and scientists to continue to increase economic prosperity through development of technologies and preparation of the future technological workforce.

2. The Integrated Student Maker Spaces project will develop "maker spaces" to support student innovation across all disciplines at Michigan Tech. Maker spaces are places that engage students (and faculty and staff) in collaborative design and prototyping activities. Michigan Tech's vision is to provide a centralized hub of design and innovation that will inspire and support students' creativity and experiential learning. The total project cost is estimated at $27,000,000 and this investment will allow for construction of a new central facility, as well as expansion, renovation and modernization of existing space.

3. The H-STEM Engineering and Health Technologies Complex (Phase II) will include a newly constructed facility co-located adjacent to existing spaces that will be renovated as part of the project. Phase II of this project will further enable Michigan Tech's growing research and education programs in advanced manufacturing, particularly as related to human-centered engineering and medical devices. Phase II is natural follow-on to Phase I because many innovation and engineering challenges related to modern manufacturing involve medical manufacturing, including 3D printing of blended metal/plastics/ceramics for multi-functionality, rapid design through multiple testing cycles, and the embedding of mechatronic systems. Additive and other advanced manufacturing processes are poised to dramatically change how products are made and changes will cascade upstream to impact product designs. The H-STEM Complex will include a visible shared space where teams of students and faculty will together engage in creative solutions to advance manufacturing across Michigan industries. Phase II will strategically position Michigan Tech to contribute to the growth of hi-tech innovation and manufacturing throughout the state. The total investment required for this project is estimated at $74,200,000.
V-D. Revision to Board of Trustees Policy 15.1. University Research and Sponsored Program Cost Principles

It is being recommended that this policy be revised as the OMB Circular A-21 no longer applies and with this edit, it will make it generic in an effort to accommodate future regulation changes.

It was moved by B. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent, that the Board of Trustees approves the revision to Policy 15.1. University Research and Sponsored Program Cost Principles.

The amended policy shall read as follows:

15.1. UNIVERSITY RESEARCH AND SPONSORED PROGRAM COST PRINCIPLES

In sponsored programs, the University will comply with all applicable regulations when determining costs applicable to grants, contracts, and other sponsored agreements including but not limited to for research, instructional programs and public service.

The University shall determine a Facilities and Administrative cost rate based on a cost study complying with the above requirements. Facilities and Administrative costs shall be charged to all sponsored agreements for research, instructional programs, public service, and other sponsored programs at the determined rate.

Exceptions may be made at the discretion of the Vice President for Research where established Facilities & Administrative rates have been fixed by congressional action, by acceptable agency regulations or when the University might wish to participate in a project of especial institutional interest.

This policy supersedes Board of Trustees policy 15.1. University Research and Sponsored Programs Cost Principles dated July 15, 2010.

V-E. Approval for Revisions to University Senate Constitution

The University Senate is requesting Board of Trustee approval of proposed changes to the Senate Constitution.

A summary of the proposed amendments to the University Senate Constitution are as follows:

A. Faculty Constituents – Clarifies academic faculty rankings.
B. Voting on Various Matters – Clarifies that only senators shall vote on matters before the Senate, or their Alternates may vote if the Senator is not present.
C. Membership – Eliminating redundancy of voting members as also found in Voting on Various Matters.
D. Commencement of Term of Office – The term of office for new senators, alternates and officers shall begin on July 1.

At the April 5, 2017 meeting of the University Senate, Proposal 19-17: “Revisions to the Senate Constitution” was approved. On April 12, 2017 a referendum was sent to 1,078 constituents regarding this proposal, resulting in 445 responses with 311 approve, 26 reject and 108 abstain. On July 14, 2017, the Administration responded with recommended editorial changes, which have been applied.

It was moved by R. Jacquart, supported by D. Sanders, and passed by voice vote without dissent, that the Board of Trustees approve the Revisions to the University Senate Constitution as presented. By its approval of this amendment by the Senate of its Constitution, the Board of Trustees relinquishes none of its constitutional or statutory authority nor does it adopt the amendment or the Constitution as Board of Trustees or University Policy.

The revised University Senate Constitution shall read as follows:

**Constitution of the University Senate of Michigan Technological University**

Ratified by the Senate constituency on April 4, 2012
Approved by the Board of Control on April 27, 2012
Most recently amended on December 19, 2014
Most recent revision: July 14, 2017

**Article I — Name**

The name of this organization shall be The University Senate of Michigan Technological University.

**Article II — Constituents**

A. The University Senate’s constituencies is the University’s academic and research faculty and professional staff, including staff employed at independent research units. These groups meet and operate as a unit under a single Constitution and Bylaws, with a single set of University Senate officers and committees. Voting on certain issues will be confined to one of these groups, as defined in Article III below.

B. Individuals:

1. University Senate constituencies are University professional staff and faculty who are employed full-time for a minimum of 9 months per year, unless otherwise excluded because of minor administrative functions (see paragraph 4 below). Full-time is defined as a minimum of 30 hours per week.

2. Faculty Constituents:

   a. Academic faculty shall be constituents of the University Senate, unless otherwise excluded.

   b. Research faculty shall be constituents of the University Senate, unless otherwise excluded, and will be represented by the Faculty Senator elected from the department in which they are appointed. The research faculty are individuals holding a rank of research assistant professor, research associate professor or research professor for a minimum of 9 months full-time.

   c. Department chairs, associate deans, and assistant deans, despite their additional status as academic faculty members, shall not serve as senators or alternates. They are considered constituents of the Senate.
3. Professional Staff Constituents

a. Professional staff including members of independent research units, shall be constituents of the University Senate, unless otherwise excluded because of major administrative functions as defined in the Bylaws (independent research units are not administered by one or more academic departments).

b. The Bylaws shall contain procedures for identifying the University professional staff that form the constituency of the professional staff membership and for resolving problems of constituency of individuals not clearly specified in this Article.

4. The University President, Provost, Vice Provosts, Vice Presidents, Chief Financial Officer, and all deans and equivalent directors, shall not be constituents of the Senate.

C. Representation Units

1. Each constituent of the Senate shall be a member of one representation unit. A senator elected by members of each unit shall represent each unit. The units and their included constituents are:

a. Academic Departments. Academic and research faculty holding appointments in an academic department or school shall be the only faculty constituent members of that department or school.

b. Research Units and Professional Staff:

i. The Senate’s Professional Staff Policy Committee will define the composition of the professional staff and independent research representation units.

ii. There shall be no more than 12 professional staff representation units, including independent research units. One of the units shall be the Library. The other eleven shall be composed as defined by the Bylaws. The groupings of the professional staff units are only for Senate representation. The reporting structures of constituents within any one unit may differ.

iii. All Senate constituents employed in an independent research unit shall be constituent members of that unit. A research unit may be included as part of another constituent unit.

iv. Senate constituents as defined above who are not constituent members of an academic department or research unit shall be members of a professional staff representation unit

2. In cases where a constituent is eligible to belong to more than one unit, that person will permanently select one unit and inform the Senate Secretary of that selection.

3. The representation units shall be listed in the Bylaws. The Bylaws shall contain procedures for reviewing and updating the list as recommended by the Professional Staff Policy Committee.

Article III — Functions
A. The Senate is the representative body for its constituents and speaks on their behalf on matters under the Senate’s jurisdiction. The Senate shall establish, review, and recommend policy and procedures on matters under its jurisdiction. The Senate also is the principal forum for discussion of any matters of interest to the university community.

B. The Senate shall have the responsibility and the authority to review and establish policy in some matters, and to review and make recommendations in other matters. The University President, the Board of Trustees, or their designated representatives may stipulate additional areas in which the Senate shall have responsibility and authority.

C. By its approval of this constitution, the Board of Trustees relinquishes none of its constitutional or statutory authority.

D. Section F of this article lists matters in which the Senate has the responsibility and the authority to review and establish policy. Normally, the Board of Trustees will approve policy in these areas only after it receives policy proposals approved by the Senate.

E. For matters in which the Senate has the responsibility and the authority to review and establish policy, proposals shall be submitted to the Board of Trustees following these procedures.

1. Policy proposals that originate with the University President (or designated representatives) shall be presented to the Senate for review and approval before being submitted to the Board of Trustees.

2. Likewise, proposals approved by the Senate shall be transmitted to the University President for approval.

3. Proposals approved by the Senate and the University President shall be submitted by the University President to the Board of Trustees. It is the responsibility of the Senate officers to ensure such submission.

4. Proposals approved by the Senate may be vetoed by the University President within three months (not including the time from the end of the Spring semester of one academic year to the start of the Fall semester of the next academic year) of their transmittal to the University President.

5. If the University President vetoes a proposal passed by the Senate, that veto shall be presented in writing to the Senate President. The Senate President shall report the veto to the Senate at its next meeting. The Senate may appeal the veto to the Board of Trustees upon a two-thirds majority vote of eligible senators. Written notice of the appeal shall be transmitted immediately to the University President who shall submit a written copy of the veto to the Board of Trustees. The Senate President shall also submit a written copy of the Senate’s appeal to the Board of Trustees.
6. If, within three months (not including the time from the end of the Spring term of one academic year to the start of the Fall term of the next academic year) of transmittal to the University President, a proposal passed by the Senate is neither vetoed nor approved by the University President, the proposal will be deemed approved by the University President, and will be submitted by the Senate President to the Board of Trustees for its approval. Procedures for temporarily extending the three-month period for particular proposals shall be contained in the Bylaws.

F. List of Matters of Responsibility and Authority

1. Matters of Academic Policy and Procedures

a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

i. All curricular matters, including establishment, dissolution, and changes in degree programs.

ii. Requirements for certificates and academic degrees.

iii. Regulations regarding attendance, examinations, grading, scholastic standing, probation, and honors.

iv. Teaching quality and the evaluation of teaching.

v. All matters pertaining to the academic calendar.

vi. The appointment, promotion, tenure, dismissal, and leaves of the academic faculty.

vii. Criteria for positions that are to be accorded academic rank.

viii. Academic freedom: rights and responsibilities.

ix. Regulations concerning the awarding of honorary degrees.

x. Procedures for the selection of Deans and Department Chairs.

xi. Requirements and criteria for unit charters for each academic department.

xii. Other areas under authority as may be granted by the Board of Trustees, the University President, or their designated representative.

b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

i. Academic organization, including the establishment or elimination of schools, colleges, or departments, and the reorganization of the academic structure.
2. Matters of Research Policy and Procedures

   a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

      i. All issues and performance other than the allocation and distribution of resources.

   b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

      i. Allocation and distribution of unrestricted funds made available to the university for discretionary allocation in support of research or scholarly work.

3. Matters of Policy and Procedures Concerning Professional Staff

   a. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

      i. All issues of concern only to professional staff.

4. Other Matters of Policy and Procedure

   a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:

      i. Internal function of the Senate, including Bylaws, committee structure, etc.

      ii. Other areas under authority as shall be granted by the Board of Trustees, the University President, or their designated representative.

   b. The Senate has the responsibility to review, make recommendations, initiate, and participate in the formulation of policy and procedures in these areas:

      i. Fringe benefits.

      ii. Institutional priorities.

      iii. Allocation and utilization of the university’s human, fiscal, and physical resources.

      iv. The J.R. Van Pelt Library, computing facilities, audiovisual support, E.R. Lauren Bookstore, Seaman Museum, etc., as they affect scholarly, instructional, and research activities.

      v. Admission standards and procedures.

      vi. Student financial aid.
vii. Selection of the University President, the Provost, and other major university-wide administrators.

viii. Administrative procedures and organizational structure.

ix. The evaluation of administrators.

x. All areas of student affairs not mentioned specifically above, including their effect on the educational process and on academic achievement.

G. Voting on the various matters shall be limited to subsets of senators and their constituents. (Reference is made to Section F of this article).

1. Only Senators shall vote on matters before the Senate, or their Alternates may vote if the Senator is not present.

2. Only Faculty Senators or their Alternates, including at-large Faculty Senators, may vote on academic matters.

3. Only Faculty Senators or their Alternates, including at-large Faculty Senators, and Professional Staff Senators representing independent research units or their Alternates may vote on research matters.

4. Only Professional Staff Senators or their Alternates, including at-large Professional Staff Senators, may vote on matters affecting the professional staff.

5. All Senators or their Alternates may vote on Senate matters affecting the entire university.

6. All Senators and their Alternates may vote in Senate committee deliberations.

7. The Bylaws shall include procedures for classifying the academic, research, staff, and other matters brought before the Senate.

H. As part of its functioning, the Senate should coordinate its activities and cooperate with appropriate representative groups of faculty, staff, and students on campus.

**Article IV — Membership**

A. Number and Composition - Membership in the Senate shall be determined as follows:

1. One senator and one alternate elected by and from the academic and research faculty of each academic department.

2. One senator and one alternate elected by and from each of the professional staff and research unit representation units.
3. Four at-large academic and research faculty senators shall be elected by the entire faculty constituency.

4. Two at-large professional staff senators shall be elected by the professional staff and research unit constituencies.

5. Academic department representation units and academic and research faculty senators at-large shall comprise at least 60 percent of the Senate’s total membership.

6. Official non-voting liaison members from units designated by the Senate and listed in the Bylaws.

B. Election and Terms of Office

1. The term of office of elected senators and alternates shall be three years except as set forth in Paragraph 3 below. After serving for six consecutive years as a senator and/or alternate, an individual shall not be eligible for re-election for a period of one year. The term limit shall be waived on presentation to the Executive Committee a request approved by a majority vote of the constituents of the Representation Unit.

2. The election years shall be distributed as equally as possible among the various representation units and at-large positions.

3. Election of senators shall be held in the spring of each year. The term of office shall commence on July 1. Vacancies in at-large membership created by resignation or otherwise may be filled by appointment by the President of the Senate until the next election, at which time vacancies shall be filled for the unexpired terms by elections.

Article V — Officers

The officers of the Senate shall be a President, Vice-President, and Secretary. Their duties shall be defined in the Bylaws. These officers shall be chosen by the continuing senators and the senators-elect following the annual spring elections in a manner described in the Bylaws. The officers-elect of the Senate shall assume their duties on July 1.

Article VI — Committees

A. The number, responsibilities and membership of committees of the Senate shall be determined by the Senate using procedures contained in the Bylaws.

B. Committee chairs shall be senators or alternates.

Article VII — Procedure
A. The business of the Senate shall be conducted according to the current edition of Robert's Rules of Order Newly Revised (RONR) when these are not in conflict with the Bylaws of the Senate.

B. The full Senate, by two-thirds majority vote, shall rule on interpretation of ambiguous language in this Constitution and the Bylaws. Such interpretations shall be considered as amendments to the Bylaws.

**Article VIII — Petitions And Ballot Initiatives**

A. Petitions may be submitted to the Senate by constituents to require:

1. An immediate vote on policy proposals specified in the petition; or

2. That a Ballot Initiative (or referendum) of eligible constituents be conducted immediately as a challenge to some vote of the Senate.

B. Such petitions must be signed by at least 20 percent of constituents eligible to vote on the matter. (Reference is made to Article III, Section G).

C. A majority of eligible Senators may vote to require a Ballot Initiative of eligible constituents.

D. The President of the University or the Board of Trustees or their designated representatives can request a Ballot Initiative on a designated issue other than the appeal of a presidential veto.

E. The Bylaws shall contain procedures for the conduct of Ballot Initiatives.

**ARTICLE IX — Meetings**

The Senate shall meet at least once during each term of the regular academic year, in meetings scheduled before the end of Spring term of the preceding academic year. Additional meetings shall be called by the Senate President as needed, or upon written request of 20% of senators. All meetings shall be open.

**Article X — Amendments**

Amendments to this Constitution may be proposed at any meeting. If passed both at this meeting and at any subsequent meeting within six calendar months by a two-thirds majority, the proposed amendment shall be submitted to the Senate Constituency. Ratification shall require a majority vote in a referendum in which a majority of eligible senate constituents cast a valid ballot. The amendment shall then become effective upon approval by the Board of Trustees.
VI. REPORTS

A. Undergraduate Student Government Report
Mr. Mitchell Sanford, President of USG, provided the Board with a report of events the group has sponsored this year (Congressman Bergman Town Hall, National Society of Black Engineers Taboo Talks, USG Town Hall and free speech events); and provided an overview of their goals for the year and their interest in increasing diversity.

B. Graduate Student Government Report
Mr. Hossein Tavakoli, President of GSC, provided the Board with updates on events that they sponsor and projects they are working on which include, cultural events, food waste, sustainability, emergency fund, diversity, presidential search committee and university portrait draft revisions. Issues of concern that they plan to work on throughout the year are insurance, housing and accessibility.

C. University Senate Report
Mr. Cayce Will, Vice President of University Senate, provided the Board with a University Senate report on approved Senate proposals; their focal points for the year which include mission statement, presidential search and assessment; as well as their work in progress. The Senate will be working on syllabus requirements (assessment, outcomes), accessible technologies, laptop initiative, and student textbook Lending Project and innovative new degree programs.

VII. INFORMATIONAL ITEMS
A. Analysis of Investments
B. University Issued Bond Balances
C. Research and Sponsored Programs Report
D. Advancement and Alumni Engagement Report
E. Recent Media Coverage
F. Employee Safety Statistics

VIII. OTHER BUSINESS
None

IX. PUBLIC COMMENTS
None

X. INFORMAL CLOSED SESSION TO DISCUSS PENDING LITIGATION AND A PERIODIC PERSONNEL EVALUATION OF PRESIDENT MORZ

It was moved by B. Johnson, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Trustees proceed into an informal closed session for review of pending litigation and a periodic personnel evaluation of President Mroz. (A closed session
for such a purpose is provided for in Section 8 (a, e) of P.A. 267 of 1976). (A roll call vote is required).

Roll Call Vote:

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<td>Fream</td>
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<td>Ryan</td>
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<td>Jacquart</td>
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The motion passed.

The Board of Trustees reconvened in open session with a quorum present.

**President’s “At Risk” Performance Bonus FY2017**

It was moved by B. Johnson, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Trustees grant President Mroz an “At Risk” Performance Bonus for FY2017, which is the direct result of eight strategic plan goal metrics, in the amount of $34,500.

**X. ADJOURNMENT**

It was moved by D. Sanders, supported by J. Fream, and passed by voice vote without dissent, that the meeting be adjourned.

___________________________________
Secretary of the Board of Trustees

___________________________________
Chair, Board of Trustees