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 April 28, 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 28th day of April, 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, T. Woychowski, and a quorum was declared present.

The following members of the Board of Trustees were present:

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

Also present during part or all of the session were: Roberta Dessellier, Secretary of the Board; Julie Seppala, Treasurer; Jackie Huntoon, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Ellen Horsch, Vice President for Administration; Les Cook, Vice President for Student Affairs and Advancement, 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 J. Fream, supported by S. Tomaszewski, and passed by voice vote without dissent, that the agenda of the formal session of April 28, 2017, as distributed to the Board, be approved.

II. OPENING REMARKS

Chair’s Comments

I would like to welcome everyone to Commencement Weekend.

Commencement is a time of reflection and celebration. Proudly walking across our stage tomorrow will be 658 undergraduates, 204 masters and 51 PhD students, all eager to begin their new careers.

There is no better litmus test of the success of our institution than gauging the success of our students. I’d like to mention a few of those successes this morning.

Chad Brisbois is one of 53 graduate students in the US to earn a place in the Department of Energy’s Office of Science Graduate Student Research Program. Brisbois, a physics PhD candidate at Michigan Technological University, is heading to the Los Alamos National Laboratory for several months later this year as part of the DOE program. He will be collaborating with researchers who run a specialized gamma-ray observatory called the High Altitude Water Cherenkov in Mexico.

I also want to take a moment to highlight the undergraduate Design Expo, held last week. More than 1,000 students on Enterprise and Senior Design teams showcased their work and competed for awards. Congratulations to the Consumer Product Manufacturing for finishing first place in the Enterprise category and the biomedical engineering team working on "Enhanced Measurement and Analysis of Gait Disturbances" for winning first place in the Senior Design category.

At this time I would like recognize Lieutenant Colonel Adam Melnitsky (Army ROTC) and Major Jason Engler (Air Force ROTC) for their service, not only to Michigan Tech but to the country. Both gentlemen will be completing their tours of duty on the Michigan Tech campus and both men are retiring from their services after twenty years of active duty. Please help me in congratulating them on their service and wish them well in retirement.

On April 4th, MTU President Glenn Mroz notified the Board of Trustees that per the terms of his contract he wished to give notice that it was his desire not to renew his contract at the conclusion of this contractual period, and that he desired to transition to his tenured professor position at the conclusion of the 2017-2018 academic year. It is with an alloy of regret, respect and admiration that the board has accepted Glenn’s decision and we fully support his personal and professional plans going forward.
While it is a difficult decision, it is not one that comes as a surprise or one that catches the Board off guard. In Jim Collins book, “Good to Great”, he writes extensively about the leadership that is necessary for any enterprise to rise to the levels of greatness that only few achieve. He goes to great lengths to point out that truly great and enduring organizations are inevitably lead by what he refers to as “Level 5 Leaders”. One of the traits that sets Level 5 leaders above all others is their undying loyalty and steadfast dedication to their cause, and their commitment to set up their own successors for continued success. Glenn typifies a Level 5 leader and to that end we have been in discussions about his decision for some time, giving each the ability to adequately prepare and to ensure the transition will be well planned for and seamlessly executed. The Board wants to explicitly thank you for your professionalism and level 5 leadership in this regard Glenn.

Today is not the time or place to describe the character and attributes that Glenn and Gail have brought to Michigan Tech these many years. There will be time and places for that, and I am sure many opportunities will be forthcoming for all to express their appreciation and admiration for all that they have done. At this point however, I must ask everyone associated with Michigan Tech to instead remain focused at the tasks at hand. Glenn still has many challenges and heartfelt goals that he wishes to fulfill during the ensuing year, and we cannot ease up on any efforts we have in place to complete them. As the leader of MTU, Glenn will keep his eyes on the road, his hands on the wheel and his foot on the accelerator as we continue to drive the university toward its strategic goals. Please do not allow this to be a time of hesitation, or of fear or of indecision. We know the right things to do, and with steadfast courage, and under Glenn’s leadership, let us be about doing them! Glenn, you continue to enjoy the full confidence of the Board of Trustees, and we ask that your final lap be indeed your finest.

It is with deep conviction that I say that the most important and most significant decision that any University Board of Trustees in the United States makes is the selection of its Chief Executive, and in our case, our President. It is the responsibility and sworn duty of the Board of Trustees, and the Board alone, as specified in the Constitution of the State of Michigan, to make this selection. Along with our fiduciary responsibilities, choosing the President to carry the torch forward will be the most important decision we as a Board will make.

I am pleased to say, that due to Glenn’s foresight and willingness to work with us along the way, the Board is well prepared to take on this important task. The board has completed much research and has met and talked with several firms specializing in this area, so as to become familiar with the best practices for selecting University and College presidents. I have personally attended several AGB seminars and briefings on this topic as well, and have spoken with other Board Chairs who have successfully, or not so successfully completed this process to gain from their lessons learned. Armed with this understanding, we are prepared to follow a methodical and systematic process to select our new president, one that is inclusive of all of our primary constituencies and one that ensures that their input is considered and that their voice is heard. The final decision of course, as I have stated, rests solely with the Board.

To that end, the Board will be forming a Presidential Search Committee. This committee will be charged with the responsibility to identify and select the best candidates to ultimately
be brought to the Board of Trustees at large to vote on and to choose the next President. I would like to take a few minutes to briefly describe that process here.

A Presidential Search Committee will be formed which will be broad and comprised of Board of Trustee members, students, faculty, staff, alumni and the wider university community.

The Board of Trustees will start the process immediately and will begin soliciting nominations on May 5th to serve on the Presidential Search Committee from various sectors of the University Community. This committee will consist of:

- Four Board of Trustees Members, where one will serve as the Chair of the Search Committee and one as the Vice Chair.
- The University Senate, viewed as a vital strategic partner in the search process, is requested to put forward to the Board of Trustees a list of no less than 6 faculty members. The Board will select 3 of the nominees to serve on the Committee.
- The University Senate is requested to put forward to the Board of Trustees a list of no less than 6 professional staff. The board will select 2 of the nominations to serve on the Committee.
- The Provost and Vice President for Academic Affairs is requested to put forward a list of no less than 3 Academic Administrators. The Board will select 1 to serve on the Committee.
- The Graduate Student Government is requested to put forward to the Board of Trustees a list of not less than 3 enrolled Graduate Students. One graduate student will be chosen to serve on the Committee.
- The Undergraduate Student Government is requested to put forward to the Board of Trustees a list of not less than 3 enrolled Undergraduate Students. One undergraduate student will be chosen to serve on the Committee.
- The Alumni Relations team is requested to put forward at least 3 nominations of local alumni, who will also serve as a local Community Member. The Board of Trustees will select 1 to serve on the Search Committee.
- The Board of Trustees may appoint additional members to the Search Committee as it deems necessary.

The deadline for nominations from the various sectors of the university community to serve on the Presidential Search Committee will be May 24th. The Board of Trustees will be announcing the composition of the members of the Presidential Search Committee at a Special Meeting to be held on June 2nd of this year. At this time I would like to appoint the Board of Trustees members to the Presidential Search Committee. They will be Julie Frem, Bob Jacquot, Bill Johnson who will serve as Chair, and Brenda Ryan who will serve as Vice Chair. I would like to thank them for their willingness to accept this additional responsibility.

The Board of Trustees will retain a Presidential Search Firm to assist with the process. One of the first orders of business for the Presidential Search Committee will be to interview and recommend to the Board of Trustees 2 executive search firms by July.
As stated, the Search Committee will conduct the search in a transparent and inclusive fashion. While valuing inclusiveness and transparency, this search will be conducted in a fashion designed to safeguard the confidentiality of the applicants. It's the Boards desire to attract the most qualified and largest candidate pool possible, many of whom may be currently sitting Presidents or ranking university administrators who without this guarantee of confidentially would understandably not be willing to risk their current position or standing with their boards for the potential of another.

The Presidential Search Committee will be charged with the task of identifying and recommending to the Board of Trustees a slate of final candidates by February of 2018. Final interviews with the Board of Trustees will be scheduled shortly thereafter. The Board of Trustees anticipates selecting a new President in the April timeframe of 2018, with the start date scheduled for July of 2018. Fortunately, in the event that a search does not yield a suitable candidate in that time frame, President Mroz has agreed to continue to serve for a length of time to allow for the ultimate successful completion.

I know this is a lot to digest, and we will continue to discuss the process and our status all along the way. Thank you for your understanding and willingness to assist in the process and we look forward to a productive search and a smooth transition in due course. The Board deeply appreciates the University Senate, Student Governments and the entire MTU community for their commitment and support of the process. As I mentioned earlier, until then, let's continue on full steam ahead on the tremendous arc that is Michigan Technological University.

Thank you, and I would like to ask President Mroz for his opening comments.

President's Comments

Thank you Mr Chair, Members of the Board, hard working faculty, staff and students.

Over the past 13 years I have stressed (perhaps ad nauseum) that by virtue of history and geography, it has been critical for Michigan Tech to be a good investment, ............if it is to be an institution of consequence in the world.

A good investment for students and their families

A good investment for parents and guardians

A good investment for the industries and the society that we serve

A good investment for faculty and staff who dedicate their talents and their lives to our students

And a good investment to state and federal government officials and agencies looking for answers and developments to move our economy forward, and ensure our national defense.

The point of all this was that, ....if we did this right,.... we would be a good investment to our alumni and friends for their moral support and their charitable giving.
And that in turn would support our first goal for the university..... to attract an exceptional
and diverse community of students, faculty and staff.

Because everything else is a derivative of talented and dedicated people who strive to do
great things.

We have had some success to show that the people of Michigan Tech are a good investment
on many fronts, and they do great things.

And while we can put numbers on all of these, we won't do so today because the real
measure, ....the real test,.... will be whether we are able to attract candidates in the search for
a president that are as good as the people of this university, and as good as the alumni of the
university that they will lead.

Candidates who, without hesitation, are committed to investing all their energy and talent in
the people of Michigan Tech. And candidates who will have the wisdom to know the
difference between what should continue to change at Michigan Tech, and what should never
change at Michigan Tech.

Thanks to the Trustees for rising to this challenge... And thank you to the students, faculty
and staff as well as the community .....the Trustees want and need your help..... don't screw
it up. Thanks.

III. COMMITTEE REPORTS

A. Academic Affairs Committee Report

Ms. Linda Kennedy, Chair of Academic Affairs Committee, reported that the Committee
reviewed the appointments with tenure for Dr. Pradeep Agrawal and Dr. Audra Morse;
reviewed the nominations for Emeritus rank for Dr. Marty Auer and Dr. Ralph Hodek, and
will recommend Board approval for the tenure appointments and emeritus rank. The
Committee then reviewed 14 promotion and tenure appointments from assistant professor
without tenure to associate professor with tenure and 8 from associate professor with tenure
to professor with tenure. All will be recommended to the Board for approval.

Also discussed and reviewed was the new degree proposal for a PhD in Integrative
Physiology and it will be recommended to the Board for approval. The meeting ended with
discussion with the University Senate, USG and GSG Presidents.
Provost Report

Dr. Jackie Huntoon provided the Board with the following report.

Provost's Report
Jackie Huntoon
April 28, 2017

Tenure, Promotion and Reappointments

5 Recommendations for Promotion from Lecturer to Senior Lecturer
- Layra Alegre-Figuero - Humanities
- Stephanie Carpenter - Humanities
- Mary Fraley - Engineering Fundamentals
- Jason Gregersen - Mathematical Sciences
- Brigitte Merlin - Biological Sciences

1 Recommendation for Promotion from Senior Lecturer to Principal Lecturer
- Rupak Rajachar - Biomedical Engineering

Tenure, Promotion and Reappointments

- 14 Recommendations for Promotions from Assistant Professor without Tenure to Associate Professor with Tenure

- 8 Recommendations for Promotions from Associate Professor with Tenure to Full Professor with Tenure
Kudos to Faculty Considered for Tenure and Promotion

From Woods Hole:
"As a result of their publication record, Dr. X is known nationally and internationally and respected by peers."

From Tufts University:
"Their ability to lead some of these grants as PI and participate in others as CoPI reflects further on sustainability for their programs as well as their collegiality within the University."

From Oregon State University:
"Dr. X's research portfolio is much more diverse and substantial than is typical of many assistant professors being considered for promotion and tenure, more importantly, their research has both a national and international impact."

From The Ohio State University:
"I would confidently place Professor X among the top 3-4 young researchers in the country."

Kudos Continued

From MIT:
"Tenure is a "forever" commitment on the part of any university, and therefore it behooves us all to be cautious in granting it. Professor X has various characteristics that make me comfortable with the idea that tenure is an appropriate step...They are entrepreneurial in spirit, always thinking about new ways to interact with industry and other constituents. And I believe they can be counted on to keep MIT "on the map" for years to come."

From Colorado State University:
"It says something about a junior scholar when their work is being read in classes where future scholars are being trained."

From University of CA - Santa Barbara:
"I would predict that their achievement in the first two is sufficiently impressive to earn promotion at UCSB which is typically ranked in the top ten research universities worldwide (Lunden Rankings)."

Kudos Continued

From University of Michigan:
"Dr. X can position Tech at the leading edge of the incoming wave of change: as a place where accelerated scientific discovery and engineering explorations are conducted in ways that are sustainable both economically and environmentally, and as a place where vision, innovation and technology help democratize the evolution of higher living standards and quality-of-life experiences."

From Georgia Institute of Technology:
"There are very few people in the field that can bridge theory and practice so well and in my mind they are one of the top researchers in this area globally."

From Duke University:
"This work is set to unlock a massive amount of knowledge. They are a scientific star and you are fortunate to have them."
Emphasizing Continual Improvement of Undergraduate Degree Programs

Goal 3 Plan Close the Loop Reports + Goal 5 Assess Reflection Goal 4 Plan Close the Loop Reports + Goal 4 Assess Goal 6 Plan Close the Loop Reports + Goal 6 Assess

Goal 5 was assessed in Fall 2014
Goal 6 was assessed in Fall 2015

Numbered Goals = University Student Learning Goals
GoC = Goal of Choice

Undergraduate: Closing the Loop and Making Changes - Examples

- **CSA: Biological Sciences**
  - Assessment of Goals 5 and 6
    - New course (BL3782 Writing Practicum in Biology)
    - Faculty goals to strengthen student skills in:
      - Lab report writing
      - Journal reading and citing
      - Synthesis and expression of content
    - Assessment of Goal 2 (as GoC)
      - New course (BL3782 Essentials of Biology)

  "Overall, assessment has allowed us to take a critical look at our program and make crucial decisions that will benefit our students and strengthen the Biology department as a whole."

- **COE: Biomedical Engineering**
  - Planning for Assessment of Goal 3
    - "We have increased the exposure EBE students get to global issues, primarily so they relate to cultural differences in medical device regulations and quality assurance programs. This has been a significant improvement in our program... especially true as medical device manufacturing moves offshore..."

- **COE: Material Science and Engineering**
  - Assessment of Goals 5, 6, and 3
    - US Curriculum Committee → US Curriculum and Assessment Committee
    - Longitudinal assessment of students through degree programs
    - Faculty discussions on how students are doing in other aspects of the act... not just assessed goal

Assessment of Graduate Student Learning Outcomes

- **2016-17**: Developed a system of assessment of student learning outcomes at the graduate level
- **2017**: 8 programs developed assessment plans and are collecting assessment data
- **2017-18**: Remaining programs complete their plans by December 2017 (all workshops scheduled); all programs collecting data by Spring 2018, in compliance with Higher Learning Commission expectations.
1st Female ECE Graduate

- Patricia "Pat" E. Anthony
- BS in Electrical Engineering – 1967
- 50 year anniversary
- Spent most of career with IBM

Research and Sponsored Programs Report

Dr. Reed then provided the Board with the following report.

Sponsored Program Summary
3rd Quarter FY17
April, 2017

David Reed
Vice President for Research
Intellectual Property, 3rd Quarter FY17

<table>
<thead>
<tr>
<th></th>
<th>FY17</th>
<th>FY16</th>
<th>+/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received</td>
<td>22</td>
<td>20</td>
<td>+10%</td>
</tr>
<tr>
<td>Nondisclosure Agreements</td>
<td>75</td>
<td>83</td>
<td>-10%</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>13</td>
<td>11</td>
<td>+18%</td>
</tr>
<tr>
<td>License Agreements</td>
<td>15</td>
<td>15</td>
<td>0%</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>$311,184</td>
<td>$278,500</td>
<td>+12%</td>
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</table>

Corporate Sponsorship, 3rd Quarter FY17

"The Next Level"

- In FY16 we had $72.5 MM in research expenditures, an increase of 3-4% from FY15.
- At that rate we will reach $100 MM, an increase of almost 40%, in about 8 years.
- Q: How do we accelerate that?
  A: Everyone I ask says "we need to get to the next level".
"The Next Level"

- What does it mean for Michigan Tech to reach "the next level" as a research institution?
  - We need to be the prime on an increasing number of large, multi-institutional funding programs.
  - These programs should be from a variety of sponsors, indicating a broad base of recognized research capacity.
  - Within any given funding program, awards should be to a range of nationally recognized research institutions, including Michigan Tech.

Recent Examples

- Within the last year, Michigan Tech has been the lead on awards from the following programs:
  - EPA Regional Environmental Finance Center
  - DOE ARPA-E
  - NASA Space Technology Research Institute
  - DOT Beyond Traffic Innovation Center

EPA Regional Environmental Finance Center

- Tim Colling (CEE/MTTI-CTT), Lead, Six Years, $ 5.6 Million
- Goal: Assist counties, cities, villages, and state agencies in Michigan, Minnesota, Wisconsin, Illinois, Indiana, and Ohio find better ways to manage and maintain their infrastructure and to minimize their impact on the environment.
- Other Host Institutions:
  - University of Southern Maine, Syracuse University,
  - University of Maryland *, University of North Carolina *,
  - University of New Mexico, Wichita State University, CSU-Sacramento
DOE ARPA-E

- Jeff Naber (MEEM/APSRC), $2.8 Million
- Partner: GM
- Other Awardees:
  - General Motors, Oak Ridge National Laboratory, Ohio State University *, Pennsylvania State University *, Purdue University *, UC-Berkeley *, UC-Riverside, University of Michigan *, University of Minnesota *

NASA Space Technology Research Institute

- Greg Odegard (MEEM) Lead, $ 15 million, Five Years
- Partners:
  - Florida A&M University, Florida State University, Georgia Institute of Technology *, Johns Hopkins University *, Massachusetts Institute of Technology *, Pennsylvania State University *, University of Colorado *, University of Utah, Virginia Commonwealth University, Nanocomp Technologies, Solvay, US AFRL
- Goal is to “develop and deploy a carbon-nanotube based, ultra-high strength lightweight aerospace structural material within five years.”
- Other Awardee: UC Berkeley *

DOT Beyond Traffic Innovation Center

- Pasi Lautala (CEE/MTTI), Lead
- Centers “will be recognized by the DOT as forward-thinking and influential institutions that are capable of driving solutions to the challenges and trends identified in Beyond Traffic 2045, the US DOT’s report on current and future issues in transportation”. The Centers contribute by “convening decision-makers in their megaregion and coordinating related research, curriculum, outreach, and other activities.
- Other Awardees:
  - Northeastern University, Rutgers University *, University of Virginia *, Clemson University, Florida Atlantic University, Ohio State University *, University of Michigan *, University of Texas, Austin *, Texas Southern University, University of Denver, University of Arizona *, University of Washington *, UC Berkeley *, CS-San Bernardino
Summary

- Michigan Tech has been the lead on a number of significant programs from a variety of sponsors within the last year.
- These programs involve a wide range of participants across campus, and involve significant partner institutions.
- Other Universities with awards from these programs are included amongst the most prestigious research institutions in the United States.

*Michigan Tech is increasingly receiving external recognition as a major national and international technological research institution*

The challenge in front of us is not to get to “the next level”, it is to sustain and accelerate activity.

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Student Affairs and Advancement Report

Dr. Les Cook provided the Board with the following report.
Spring 2017 Commencement Statistics

Undergraduate
- 54 undergraduate degrees will be represented at commencement
- 675 undergraduate degrees will be announced
- 867 undergrads will be in attendance at the ceremony, with 6 students that will be earning more than one degree

Graduate
- 44 graduate degrees will be represented (17 PhD, 27 Master's programs)
- 270 graduate degrees will be announced
- 260 graduate students will be in attendance - with 10 earning both a Master's and PhD
- 51 PhDs (10 also earning a Master's degree), 209 Master's

Challenge: Demographics and Migration

Production of High School Graduates in Michigan

Michigan high school graduates vs. Michigan Tech's in-state freshmen 2009 -2016
Fall Undergraduate 2017 Applications

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<th></th>
<th>2016</th>
<th>2017</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>6090</td>
<td>5931</td>
<td>-159 -2.6%</td>
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<tr>
<td>Admits</td>
<td>4600</td>
<td>4390</td>
<td>-210 -4.6%</td>
</tr>
<tr>
<td>Paid deposits</td>
<td>1405</td>
<td>1364</td>
<td>-41  -2.9%</td>
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Fall Graduate 2017 Applications

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>4801</td>
<td>4678</td>
<td>-123 -2.6%</td>
</tr>
<tr>
<td>Admits*</td>
<td>1089</td>
<td>1429</td>
<td>340  31%</td>
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</table>
B. Audit and Finance Committee Report

Mr. Bob Jacquet reported that the Audit and Finance Committee has met once since the last board meeting.

The committee reviewed the Financial Position and outlook for 2017 which included the third quarter financial results, the projections for the general fund and current funds and the cash position for the University. At this time the results are positive for both the general fund and the current fund.
Julie Seppala, the Treasurer to the Board of Trustees, will present a high level review of the third quarter financial results after my summary.

As usual at this time of year, the Committee reviewed the budget planning parameters utilized to build the Fiscal Year 2018 General Fund Operating Budget. There has been considerable planning and discussions over the last six months in the development of the budget. A 3.8% tuition restraint was proposed by the Governor, the House and the Senate and the Appropriations increase proposals range from 1.9% and 2.5%. The recommendation for the passage of the budget will authorize the Administration to make appropriate adjustments based upon the passage of the final State Appropriations Bill, and the Committee supports this recommendation.

The committee supports the consent agenda recommendation to approve Andrews Hooper & Pavlik as the University’s External Auditors for the year ended June 30, 2017.

Other items reviewed by the Audit & Finance Committee included:

- Internal Audit Open Audit Observations
- FY18 Proposed Internal Audit Schedule & Projects
- Capital Projects Update
- Quarterly Report on Continuous Improvement Using Lean Principles

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.
### Balance Sheet
**Condensed Statement of Net Position**
**as of March 31, 2017**

<table>
<thead>
<tr>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Assets</td>
<td>$5,153,000</td>
<td>$3,617,000</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td>$235,074</td>
<td>235,074</td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>$87,060</td>
<td>235,074</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>$204,180</td>
<td>$204,180</td>
</tr>
<tr>
<td>Total Assets</td>
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<td>$1,079,188</td>
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<tr>
<td>Deferred Outflows of Resources</td>
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<td>-</td>
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<tr>
<td>Deferred Pension Amounts</td>
<td>$235,074</td>
<td>235,074</td>
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<tr>
<td>Total Deferred Outflows of Resources</td>
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<td>$235,074</td>
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<tr>
<td>Liabilities</td>
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<tr>
<td>Current Liabilities</td>
<td>$240,000</td>
<td>$710,000</td>
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<td>Noncurrent Liabilities</td>
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<td>Total Liabilities</td>
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<tr>
<td>Deferred Inflows of Resources</td>
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<td>-</td>
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<td>Deferred Pension Amounts</td>
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<tr>
<td>Total Deferred Inflows of Resources</td>
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<td>$235,074</td>
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<tr>
<td>Net Position</td>
<td></td>
<td></td>
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<tr>
<td>Funds in capital assets, net of restrictions</td>
<td>$155,669</td>
<td>$5,000</td>
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<tr>
<td>Other net position, restricted and unrestricted</td>
<td>23,297</td>
<td>131,500</td>
</tr>
<tr>
<td>Total Net Position</td>
<td>$178,966</td>
<td>$136,500</td>
</tr>
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### Balance Sheet
**Condensed Statement of Net Position**
**as of March 31, 2017**

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<td>$1,079,188</td>
</tr>
<tr>
<td>Deferred Outflows of Resources</td>
<td>$5,010</td>
<td>-</td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$235,074</td>
<td>235,074</td>
</tr>
<tr>
<td>Total Deferred Outflows of Resources</td>
<td>$235,074</td>
<td>$235,074</td>
</tr>
<tr>
<td>Liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$240,000</td>
<td>$710,000</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>$151,432</td>
<td>420,000</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$391,432</td>
<td>$1,130,000</td>
</tr>
<tr>
<td>Deferred Inflows of Resources</td>
<td>$349</td>
<td>-</td>
</tr>
<tr>
<td>Deferred Pension Amounts</td>
<td>$235,074</td>
<td>235,074</td>
</tr>
<tr>
<td>Total Deferred Inflows of Resources</td>
<td>$235,074</td>
<td>$235,074</td>
</tr>
<tr>
<td>Net Position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Funds in capital assets, net of restrictions</td>
<td>$155,669</td>
<td>$5,000</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>23,297</td>
<td>131,500</td>
</tr>
<tr>
<td>Total Net Position</td>
<td>$178,966</td>
<td>$136,500</td>
</tr>
</tbody>
</table>

### Income Statement
**Condensed Statement of Revenues, Expenses and Changes in Net Position**
**As of March 31, 2017**

<table>
<thead>
<tr>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Tuition and Fees</td>
<td>$125,538</td>
<td>$125,538</td>
</tr>
<tr>
<td>Gifts and Contracts</td>
<td>29,211</td>
<td>29,211</td>
</tr>
<tr>
<td>Educational Activities</td>
<td>23,975</td>
<td>23,975</td>
</tr>
<tr>
<td>Department Activities</td>
<td>6,341</td>
<td>6,341</td>
</tr>
<tr>
<td>Support Residence Fees</td>
<td>26,790</td>
<td>26,790</td>
</tr>
<tr>
<td>Total Operating Revenues</td>
<td>$193,536</td>
<td>$193,536</td>
</tr>
<tr>
<td>Operating Expenses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Wages</td>
<td>$97,195</td>
<td>$97,195</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>28,701</td>
<td>28,701</td>
</tr>
<tr>
<td>Student Financial Support</td>
<td>50,706</td>
<td>50,706</td>
</tr>
<tr>
<td>Supplies, Services &amp; Other</td>
<td>50,460</td>
<td>50,460</td>
</tr>
<tr>
<td>Total Operating Expenses</td>
<td>$227,962</td>
<td>$227,962</td>
</tr>
<tr>
<td>Non Operating Revenues</td>
<td>$48,916</td>
<td>$48,916</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>3,217</td>
<td>3,217</td>
</tr>
<tr>
<td>Change in Net Position</td>
<td>$18,336</td>
<td>$18,336</td>
</tr>
<tr>
<td>Total Revenues, Beginning</td>
<td>$241,756</td>
<td>$241,756</td>
</tr>
<tr>
<td>Net Position, Beginning</td>
<td>$214,489</td>
<td>$214,489</td>
</tr>
</tbody>
</table>
FY2017 Current/Funds
Projected Revenues, Expenses & Change in Net Assets
(\textit{in thousands})

\begin{center}
\begin{tabular}{|l|c|c|}
\hline
 & Original & 3rd Quarter \\
\hline
Revenues & $ 201,463 & $ 266,056 \\
Expenses & $ (292,450) & $ (390,221) \\
Change in Net Assets & $ (893) & $ 2,175 \\
\hline
\end{tabular}
\end{center}

\textit{Note:} Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.

---

**PROPOSED STATE APPROPRIATIONS FOR MICHIGAN TECH**

\begin{center}
\begin{tabular}{|l|c|c|c|}
\hline
 & Governor & House & Senate \\
\hline
2018 Appropriation & 2.5\% & 1.9\% & 2.0\% \\
Appropriation Revenue Increase & $ 1.200 M & $ 910 M & $ 960 M \\
Tuition Restraint & 3.8\% & 3.8\% & 3.8\% \\
\hline
\end{tabular}
\end{center}

---

**General Fund Revenues FY'18 Budget Planning Parameters**

\begin{center}
\begin{tabular}{|l|c|}
\hline
 & 3.8\% overall \\
State Appropriations & 1.9\% \\
Enrollment & +100 students \\
Tuition & Fees* \\
\hline
\hline
Undergraduate\textsuperscript{*} & \\
Resident & 3\% \\
\hspace{1em} - Lower Division & 4.5\% \\
\hspace{1em} - Upper Division & 4.4\% \\
Non-Resident & \\
\hspace{1em} - Lower Division & 4.4\% \\
\hspace{1em} - Upper Division & 4.4\% \\
Graduate & 5\% \\
\hline
\end{tabular}
\end{center}

*Will be adjusted as to account for tuition revenue for Michigan residents included
\textsuperscript{*} validation.
General Fund Expenses
FY’18 Budget Planning Parameters

<table>
<thead>
<tr>
<th>Item</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary Pool</td>
<td>2.0 - 3.0%</td>
</tr>
<tr>
<td>Faculty Promotions</td>
<td>$235K</td>
</tr>
<tr>
<td>Graduate Stipend</td>
<td>+2K</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>+$2.4M</td>
</tr>
<tr>
<td>Contingency Reserve</td>
<td>+$4.8M</td>
</tr>
<tr>
<td>Scholarships – Undergraduate</td>
<td>+$1.6M</td>
</tr>
<tr>
<td>Maintenance Budget</td>
<td>+$500K</td>
</tr>
</tbody>
</table>

C. Leadership Committee

Mr. Bill Johnson reported that the Leadership Committee held a conference call on Wednesday, April 5, 2017. The following agenda items were covered:

A review of the President’s FY17 performance was discussed. Given the University Senate’s recent release of their evaluation of the President, the Leadership Committee utilized the results from last year to this year to develop the President’s evaluation. We will be sharing our findings with Glenn and the Board in closed session.

At the President’s request, the Leadership Committee invited Glenn to participate in the evaluation process in regards to the Senate Evaluations for his FY17 performance. This allowed for the President’s early involvement and to be fully prepared to respond to the committee evaluation. This will certainly enhance the evaluation process between the Board and the President.

The Leadership Committee began the development of the President’s Annual Incentive Plan and performance expectations for FY18. We will have our recommendations for the Board’s consideration before July 1, 2017.

The Leadership Committee is tasked with developing recommendations for the Board of Trustees Chair and Vice Chair positions each year. We will be recommending Terry Woychowski to continue as Chair and Brenda Ryan to serve as Vice Chair. However, before formally putting forward the motion, it is extremely important to first recognize Linda Kennedy and her role as Vice Chair this past fiscal year. Linda initiated stepping down as Vice Chair after much thought and consideration. She served in the role as Vice Chair while also serving as Chair of the Academic Affairs Committee. Linda, a graduate of Michigan Tech, was quite active as a student and continued her support of Michigan Tech after graduation, not only as a Board of Trustees member but she also served on the Alumni Association Board and the Scientific and Communication Program Advisory Board. The
Board members truly appreciate and value her opinion and advice as Vice Chair and look forward to her continued role on the Board.

We concluded our meeting with a review of the FY17 Leadership Committee calendar and structured next year’s calendar.

IV. CONSENT AGENDA

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

IV-B. Gifts

It was moved by B. Johnson, supported by J. Fream, 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, 2016 through March 31, 2017
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY17 ($)</th>
<th>FY16 ($)</th>
<th>FY15 ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts</td>
<td>1,084,715</td>
<td>7,974,116</td>
<td>10,675,125</td>
</tr>
<tr>
<td>Restricted Planned Gifts</td>
<td>3</td>
<td>259,866</td>
<td>259,734</td>
</tr>
<tr>
<td>Individuals - Non Major Gifts</td>
<td>1,018,384</td>
<td>1,548,713</td>
<td>1,792,330</td>
</tr>
<tr>
<td>Fall Value New Planned Gift Commitments</td>
<td>30,285,980</td>
<td>11,051,232</td>
<td>11,609,353</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,194,914</td>
<td>1,230,605</td>
<td>1,260,551</td>
</tr>
<tr>
<td>Corporate Sponsors, Revenue</td>
<td>10,533,676</td>
<td>452,337</td>
<td>2,375,925</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,361,674</td>
<td>1,231,242</td>
<td>1,694,556</td>
</tr>
<tr>
<td>Foundations &amp; Other Orgs</td>
<td>242,317</td>
<td>262,311</td>
<td>271,361</td>
</tr>
<tr>
<td>Gifts to Fund</td>
<td>72,927</td>
<td>71,705</td>
<td>2,012,400</td>
</tr>
<tr>
<td>Total</td>
<td>48,309,104</td>
<td>55,780,674</td>
<td>53,584,776</td>
</tr>
</tbody>
</table>

- A planned gift of $320 million was documented on September 12, 2016 from a donor who has requested to remain anonymous.
- Excludes the annual fund; all other sources include outright gifts and the full amount of new pledge commitments.
- Annual Fund includes each item that year pledge in addition to outright current year gifts and new pledge commitments due current year.
- An individual gifts given through another source (i.e. family foundation or closely held business) are credited to the individual.

04/04/2017 14:04
IV-C. Resignations, Retirements and Off Payroll

It was moved by B. Johnson, supported by J. Fream, 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**
(February 3, 2017 – April 1, 2017)

**RETIRED**

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Termination Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gills, James</td>
<td>Staff</td>
<td>Geological &amp; Mining Engineering &amp; Sciences</td>
<td>Director, Mine Safety</td>
<td>10/02/94</td>
<td>02/17/17</td>
</tr>
<tr>
<td>Olsen, Allen</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Building Mechanic II</td>
<td>07/07/81</td>
<td>03/11/17</td>
</tr>
<tr>
<td>Seyen, Gina</td>
<td>Staff</td>
<td>Vice President for Administration</td>
<td>Administrative Assistant</td>
<td>05/30/89</td>
<td>02/10/17</td>
</tr>
<tr>
<td>Wilson, Rex</td>
<td>Staff</td>
<td>Office of Advancement</td>
<td>Senior Advancement Officer</td>
<td>07/20/07</td>
<td>03/07/17</td>
</tr>
</tbody>
</table>

**OFF-PAYROLL**

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Termination Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alvarado Tressa</td>
<td>Staff</td>
<td>Jackson Center for Teaching &amp; Learning</td>
<td>Office Assistant 3</td>
<td>01/02/17</td>
<td>03/03/17</td>
</tr>
<tr>
<td>Bahlke, Jordan</td>
<td>Staff</td>
<td>University Marketing &amp; Communications</td>
<td>Design Specialist</td>
<td>02/15/16</td>
<td>03/03/17</td>
</tr>
<tr>
<td>Ciochetto, David</td>
<td>Staff</td>
<td>Physics</td>
<td>Assistant Research Engineer</td>
<td>04/22/13</td>
<td>02/15/17</td>
</tr>
<tr>
<td>Hagle, Rebecca</td>
<td>Staff</td>
<td>Rosa Center for Performing Arts</td>
<td>Office Assistant 3</td>
<td>08/15/16</td>
<td>03/16/17</td>
</tr>
<tr>
<td>Kolleman, Angela</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Director of Transportation Services</td>
<td>01/21/13</td>
<td>03/01/17</td>
</tr>
<tr>
<td>Maselli, Matthew</td>
<td>Staff</td>
<td>Michigan Tech Research Institute (MTRI)</td>
<td>Senior Research Scientist/Engineer</td>
<td>10/07/13</td>
<td>02/24/17</td>
</tr>
<tr>
<td>Parker, Jason</td>
<td>Staff</td>
<td>Facilities Management</td>
<td>Groundskeeper</td>
<td>04/10/16</td>
<td>03/07/17</td>
</tr>
<tr>
<td>Woodhall, Jonathan</td>
<td>Staff</td>
<td>Information Technology</td>
<td>Telecommunications Tech/Engineer I</td>
<td>09/12/16</td>
<td>03/24/17</td>
</tr>
</tbody>
</table>
IV-D. Approval of External Auditor

It was moved by B. Johnson, supported by J. Fream, and passed by voice vote without dissent, that the Board of Trustees authorizes the Treasurer to engage the certified public accounting firm Andrews Hooper Pavlik, PLC to conduct the following audits for the fiscal year ending June 30, 2017:

1. The annual examination of the University's Financial Statements and Supplemental Information (all funds).

2. The annual examination of federal awards and federal student financial assistance programs, including Pell Grants, Education Opportunity Grants, Perkins Loans, College Work Study Programs and Part B Loans.

3. The financial audit of the University's intercollegiate athletics programs, as mandated by the National Collegiate Athletics Association.


V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

It was moved by B. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees adopts the Resolution of Appreciation for the following individual:

Allen Olson – 35 years of service

V-B. Emeritus Rank

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

Dr. Martin Auer, Professor Emeritus, Department of Civil and Environmental Engineering

Dr. Ralph Hodek, Professor Emeritus, Department of Civil and Environmental Engineering
V-C. Appointments with Tenure

It was moved by B. Jacquant, supported by B. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the appointments of Dr. Pradeep Agraval as Professor with tenure in the Department of Chemical Engineering and Dr. Audra Morse as Professor with tenure in the Department of Civil and Environmental Engineering, both effective July 1, 2017.

V-D. Appointments, Not Involving Tenure and/or Promotion

It was moved by J. Fream, supported by B. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the appointments listed herein. The appointments do not include tenure or promotion.

Appointment without Tenure for Two Years  
Effective August 21, 2017

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Durocher</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Stephen Techtmann</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Kathryn Perrine</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Marina Tanasova</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Emily Dare</td>
<td>Assistant Professor</td>
<td>Cognitive and Learning Sciences</td>
</tr>
<tr>
<td>Joshua Ellis</td>
<td>Assistant Professor</td>
<td>Cognitive and Learning Sciences</td>
</tr>
<tr>
<td>Kelly Steelman</td>
<td>Assistant Professor</td>
<td>Cognitive and Learning Sciences</td>
</tr>
<tr>
<td>Kevin Trewartha</td>
<td>Assistant Professor</td>
<td>Cognitive and Learning Sciences</td>
</tr>
<tr>
<td>Keith Vertanen</td>
<td>Assistant Professor</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Sarah Bell</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Lesley Morrison</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Abraham Romney</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Zhiying Shan</td>
<td>Assistant Professor</td>
<td>Kinesiology and Integrative Physiology</td>
</tr>
<tr>
<td>William Keith</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Benjamin Ong</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Melissa Baird</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Michael Christianson</td>
<td>Assistant Professor</td>
<td>Visual and Performing Arts</td>
</tr>
<tr>
<td>Kent Cyr</td>
<td>Assistant Professor</td>
<td>Visual and Performing Arts</td>
</tr>
<tr>
<td>Smitha Rao</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Department</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>Daisuke Minakata</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engrg</td>
</tr>
<tr>
<td>Zhen Liu</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engrg</td>
</tr>
<tr>
<td>Pengfei Xue</td>
<td>Assistant Professor</td>
<td>Civil and Environmental Engrg</td>
</tr>
<tr>
<td>Kuilin Zhang</td>
<td>Assistant Professor</td>
<td>Civil and Environmental Engrg</td>
</tr>
<tr>
<td>Jeremy Bos</td>
<td>Assistant Professor</td>
<td>Electrical and Computer Engrg</td>
</tr>
<tr>
<td>Lucia Gauchia Babe</td>
<td>Assistant Professor</td>
<td>Electrical and Computer Engrg</td>
</tr>
<tr>
<td>ZhaoHui Wang</td>
<td>Assistant Professor</td>
<td>Electrical and Computer Engrg</td>
</tr>
<tr>
<td>Roohollah Askari</td>
<td>Assistant Professor</td>
<td>Geol &amp; Mining Engrg &amp; Sciences</td>
</tr>
<tr>
<td>Ebrahim Tarshizi</td>
<td>Assistant Professor</td>
<td>Geol &amp; Mining Engrg &amp; Sciences</td>
</tr>
<tr>
<td>Erik Herbert</td>
<td>Assistant Professor</td>
<td>Materials Science and Engrg</td>
</tr>
<tr>
<td>Youngchul Ra</td>
<td>Associate Professor</td>
<td>Mech Engrg-Engrg Mechanics</td>
</tr>
<tr>
<td>Emanuel Castro de Oliveira</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>John Eshleman</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Peng Guo</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Jeffrey Wall</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Seyyedmohsen Azizi</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
<tr>
<td>Scott Wagner</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
</tbody>
</table>

**Appointment without Tenure for One Year**

**Effective August 21, 2017**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erika Hersch-Green</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Tejin Yoon</td>
<td>Assistant Professor</td>
<td>Kinesiology &amp; Integrative Physiology</td>
</tr>
<tr>
<td>Mark Rouleau</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Sarah Scarlett</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
</tbody>
</table>
V-E. Appointments, Involving Tenure and/or Promotion

It was moved by L. Kennedy, supported by B. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the appointments involving tenure and/or promotion listed herein.

**Promotion from Assistant Professor without Tenure to Associate Professor with Tenure**

Adam Feltz  
Stefka Hristova  
L. Syd Johnson  
Min Wang  
Yang Yang  
Ramy El-Ganainy  
Chelsea Schelly  
Bruce Lee  
Pasi Lautala  
Nina Mahmoudian  
Mahdi Shahbakhti  
Kazuya Tajiri  
Evans Kane  
Yushin Ahn

Cognitive and Learning Sciences  
Humanities  
Humanities  
Mathematical Sciences  
Mathematical Sciences  
Physics  
Social Sciences  
Biomedical Engineering  
Civil and Environmental Engineering  
Mechanical Engrg-Engrg Mechanics  
Mechanical Engrg-Engrg Mechanics  
Mechanical Engrg-Engrg Mechanics  
School of Forest Res. and Env. Science  
School of Technology

V-F. Promotions

It was moved by J. Fream, supported by B. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the promotions listed herein.

**Promotion from Associate Professor with Tenure to Professor with Tenure**

Kedmon Hungwe  
Shari Stockero  
Jeremy Goldman  
Keat Ghee Ong  
Aleksey Smirnov  
Joshua Pearce  
Jason Blough  
Rodney Chimner

Cognitive and Learning Sciences  
Cognitive and Learning Sciences  
Biomedical Engineering  
Biomedical Engineering  
Geological and Mining Engrg and Science  
Materials Science and Engineering  
Mechanical Engrg-Engrg Mechanics  
School of Forest Res. and Env. Science
V-G. FY18 General Fund Operating Budget

The general fund budget was developed based on assumptions regarding tuition and state appropriations. However, when the State budget is approved by the Legislature, if there are changes from these assumptions, the Administration is requesting that the Board allow them the flexibility to revise the budget to reflect a change in appropriations and/or tuition cap while continuing to maintain a balanced budget.

It was moved by B. Johnson, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Trustees approves the FY18 General Fund Operating Budget as presented, and authorizes the Administration to revise the general fund operating budget to reflect any changes in state appropriations and/or tuition cap while maintaining a balanced budget and informing the Board Audit and Finance Committee of any such changes that may be necessary.

Michigan Technological University

FY18 General Fund Budget

<table>
<thead>
<tr>
<th>Proposed Budget</th>
<th>FY18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenues</td>
<td>$136,701,002</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>$136,701,002</td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>$160,000</td>
</tr>
<tr>
<td>State &amp; Local Government Grants &amp; Contracts</td>
<td>$160,000</td>
</tr>
<tr>
<td>Nongovernmental Grants &amp; Contracts</td>
<td>$160,000</td>
</tr>
<tr>
<td>Indirect Cost Recoveries</td>
<td>$12,426,000</td>
</tr>
<tr>
<td>Educational Activities/Misc. Revenues</td>
<td>$123,000</td>
</tr>
<tr>
<td>Student Residence Fees</td>
<td>$1,000</td>
</tr>
<tr>
<td>Sales and Services of Dept. Activities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$151,359,532</td>
</tr>
<tr>
<td>Operating Expenses</td>
<td></td>
</tr>
<tr>
<td>Staff S&amp;W</td>
<td>$(36,241,310)</td>
</tr>
<tr>
<td>Faculty S&amp;W</td>
<td>$(49,049,920)</td>
</tr>
<tr>
<td>Grad Student S&amp;W</td>
<td>$(4,844,832)</td>
</tr>
<tr>
<td>Undergrad Student S&amp;W</td>
<td>$(903,995)</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$(35,420,520)</td>
</tr>
<tr>
<td>Supplies &amp; Services</td>
<td>$(16,119,055)</td>
</tr>
<tr>
<td>Scholarships</td>
<td>$(41,836,833)</td>
</tr>
<tr>
<td>Utilities</td>
<td>$(4,289,627)</td>
</tr>
<tr>
<td>Contingency/Carryforward Reserve</td>
<td>$(4,820,000)</td>
</tr>
<tr>
<td></td>
<td>$(195,285,436)</td>
</tr>
<tr>
<td>Transfers</td>
<td></td>
</tr>
<tr>
<td>Mandatory/Non-Mandatory</td>
<td>$(9,967,130)</td>
</tr>
<tr>
<td>Nonoperating Revenues (Expenses)</td>
<td></td>
</tr>
<tr>
<td>State Appropriations</td>
<td>$48,095,114</td>
</tr>
<tr>
<td>Gift Income</td>
<td>$4,527,500</td>
</tr>
<tr>
<td>Investment Income</td>
<td>$360,000</td>
</tr>
<tr>
<td>Interest Expense</td>
<td>$53,962,614</td>
</tr>
<tr>
<td></td>
<td>$53,962,614</td>
</tr>
<tr>
<td>Net Income (Loss)</td>
<td>$(0)</td>
</tr>
</tbody>
</table>
V-H. Election of Chair and Vice Chair

It was moved by L. Kennedy, supported by B. Johnson, and passed by voice vote without dissent, that the Board of Trustees elects Terry Woychowski as chair for the fiscal year 2017-2018; and that further, the Board elects Brenda Ryan as vice chair for the same period.

V-I. Proposal for a PhD in Integrative Physiology

The faculty members of the Department of Kinesiology and Integrative Physiology (KIP) at Michigan Technological University seek to establish a Doctor of Philosophy (PhD) program in Integrative Physiology. The PhD program in Integrative Physiology is designed for students who wish to pursue careers in academia, research or industry in the areas of integrative and exercise physiology, human biomechanics, and motor learning.

Integrative physiology can be defined as the study of organisms as functioning systems of molecules, cells, tissues, and organs. Application of these concepts and experimental
approaches is used to understand human health, disease, and performance. Inside Higher Ed recently reported that kinesiology (study of human movement which encompasses aspects of integrative physiology), is “one of the fastest-growing majors in the country.” Accordingly, there is a strong base of undergraduate and graduate students to draw from for this proposed graduate program, and a need for high-quality graduate programs.” (http://www.insidehighered.com/news/2010/08/11/kinesiology)

The specific learning goals for this proposed program are as follows:

**Learning Goal 1:** Students will demonstrate a mastery of the advanced coursework related to integrative physiology. This learning goal will be demonstrated by passing the required coursework and the written and oral comprehensive examinations, as described in Section 6.2.

**Learning Goal 2:** Students will demonstrate critical and independent thinking in their technical specialty within integrative physiology research. This goal will be demonstrated through annual research presentations (local, regional, and/or national), annual progress reports submitted to the graduate advisor, committee, and graduate program director (including list of abstracts, presentations, and publications), and through written and oral presentations of the dissertation.

**Learning Goal 3:** Students will demonstrate the ability to communicate clearly in both oral and written form. This goal will be demonstrated using the same measures as Learning Goal 2.

The proposal has been approved by the University Senate, the Provost and Vice President for Academic Affairs and the President. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

It was moved by B. Johnson, supported by J. Fream, and passed by voice vote without dissent, that the Board of Trustees approves the PhD in Integrative Physiology.

VI. REPORTS

A. University Senate Report – Dr. Martin Thompson

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University Senate Report

Presented to the Board of Trustees

April 26, 2017

Marty Thompson, President
University Senate
Discussions

- Pushpa Murthy, Dean, Graduate School. Graduate Programs Assessment. Accelerated masters program.
- Ann Ritalong-Will, Chair, Steering Committee. Civility Statement. Classroom and professional conduct.
- Ellen Horsch, VP Administration. Parental Leave Policy.
- Proposal 10-17: Resolution in Support of our international Colleagues and Students

Reports

- Paul Bergstrom, Chair, Committee on Academic Tenure, Promotion and Reappointment
  Recommendations to Improve CAFPR process.
  Proposal 09-16: Proposed Revisions to Board of Trustees Policy 6.4

- W. Charles Kerfoot, Ad-Hoc Textbook Committee
  Working with CTL and the Library
  Workshop discussing textbook alternatives. Using the vast array of technologies.
  Senate-funded research into tangible solutions

- Cayce Will, IT Committee

Reports

- Ellen Marks, Director, Library
  Update on journal costs. Dialogue with publishers.

- Shane Mueller, Administrative Policy Committee
  Evaluation of President Mroz and a Senate self-evaluation.

- Jay Meldrum, Executive Director, KRC. Sustainability and Recycling.


- Jacob Guter, Fringe Benefits Committee

Senate approved Proposals

Academic Programs (7)

- Concentration in Electric Power Engineering as part of the degree Bachelor of Science in Electrical Engineering
- Minor in Naval Systems Engineering
- Laptop Requirement for Students in Engineering Fundamentals First-Year Courses
- Doctor of Philosophy Degree Program in Integrative Physiology
- Undergraduate Minor Program Proposal Bioethics Minor
- Graduate Certificate in Automotive Systems and Controls
- Revisions to the Accelerated Master's Program
Senate approved Proposals

Assessment

- Proposal 29-16: Proposal to Formally Establish Assessment Procedures in all Units Mandated to Participate in the Assessment Process

Online/Distance Education

- Proposal 18-17: Online Course Examination Policies and Procedures.
  - SARA compliance

Senate approved Proposals

Administrative Policy Revisions (4)

- Evaluation Procedures for Department Chairs and School Deans”
  - Based on committee feedback.
  - Part of a broader program to assess and evaluate the effectiveness of procedures/policies (Policy 506.1.1, XV)
- Review and Reappointment of Deans of Colleges
- Search Procedures for Dean of the Graduate School
- Search Procedure for University Administrators

Senate approved Proposals

Revisions to the Senate Constitution and Revisions to the Bylaws

- Proposal 19-17: Revision to Senate Constitution
  - Approx. 45% response rate
  - 70% approval
  - 25% voted to abstain
- Proposal 22-17: Revision to Bylaws

Senate approved Proposals

Revisions to the Senate Constitution

- Define when the ‘term of office’ commences.
- Define who can waive term limits of senators
- Minor edits, clarifications, updated terminology, etc.
B. Undergraduate Student Government Report – Mitchell Sanford, President

Board of Trustees Update

Mitchell Sanford, President
4/28/2017

New Executive Board

Vice President
Halle Warlick

Treasurer
Joshua Sellins

Secretary
Hannah Thomas
Goals for 2017-2018

Re-brand USG as more than a piggy bank

Increase outreach to students

Increase Transparency

Starting Out

Fill all body positions

2 open positions after election

Select committee chairs

New USG vision

Re-Brand USG

USG is more than a bank

Help advertise student events

Encourage student initiative submissions
Increasing Student Outreach

RFID polling station

Continue and revamp meet your organization initiative

Campus pop-up office hours

Increase Transparency

Update social media with key decisions

Better explain monetary decisions to clubs

Have initiative status updates on social media

C. Graduate Student Government Report – William Lytle and Hossein Tavakoli

Graduate Student Government of Michigan Tech

Presented by
William Lytle and Hossein Tavakoli

April 28th, 2017

Board of Trustees
Michigan Technological University
Review of Year

- Events Hosted
- Sponsored Activities
- GSG initiatives
- Works in progress
- 2017-2018 Team
- 2017-2018 Vision

Events Hosted

- Graduate Research Colloquium
- LUNCH N LEARN
  EFFECTIVE ORAL AND POSTER PRESENTATIONS

Events Hosted
Sponsored Activities

Worked with Graduate School to offer 174 travel grants to students attending or presenting at conferences valued at $40,000

Outstanding Merit Awards

Cultural Events

Review of Year

Areas we improved:
1. Emergency fund
2. Cultural event committee
3. Co-tenant rental agreement
4. GSG internal evaluations
5. Food waste
6. Sustainability
7. Housing
8. Transportation
9. Portrait of 2045

Bonuses:
- Executive Order response
- IPDC Resolution
- LSG, US, & BCT
- Printer in Daniel Heights

Review of Year

To Do:
- Diversity
- Sustainability
- Housing
- Transportation
- Health insurance
- Build student capacity
- Printer in 8th floor of Dow
2017-2018 Team

A kind thanks to our team of student volunteers, faculty, staff, community members and BOT.

Please Welcome:
President: Hosein Tavakoli
Vice-President: Joshua Marshall
Secretary: Jenny Dunn
Treasurer: Niranjan Miganakallu
Social chair: Katy Roes
Academic chair: Lavanya R. Kumar
Public Relations chair: Leonid Surovicky

Vision & Goals

Vision: Serving our diverse group of students and MTU community to find the support, governance systems, and encouragement to thrive personally, academically, and professionally.

Goals and Action Objectives

<table>
<thead>
<tr>
<th>Environmental and Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goals</strong></td>
</tr>
<tr>
<td>Sustainability University Strategic Plan</td>
</tr>
<tr>
<td>Public Engagement</td>
</tr>
<tr>
<td>Zero Waste</td>
</tr>
<tr>
<td>100% Renewable Energy</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Areas of Interest</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainability Scorecard</td>
</tr>
<tr>
<td>Alternative Energy Options</td>
</tr>
<tr>
<td>Recycling</td>
</tr>
<tr>
<td>Food waste</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Action Objectives</strong> For 2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developing Sustainability Assessment Tool</td>
</tr>
<tr>
<td>Evaluate Contracts to Purchase Energy through Alternative Energy Supplier (AES)</td>
</tr>
<tr>
<td>Support Recycling Program Projects</td>
</tr>
<tr>
<td>Explore Sustainable Purchasing Policies</td>
</tr>
<tr>
<td>Composting – Investigating Several Alternatives</td>
</tr>
</tbody>
</table>
### Goals and Action Objectives

#### Social

<table>
<thead>
<tr>
<th>Goals</th>
<th>Quality of life for our diverse faculty, staff, students and community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas of Interest</td>
<td>• Diversity and inclusion&lt;br&gt;• Jobs/Internships for Grad Students&lt;br&gt;• Cross-cultural communication&lt;br&gt;• Encouraging a work-life balance</td>
</tr>
<tr>
<td>Objectives For 2017-2018</td>
<td>• Support international students issues&lt;br&gt;• Annual/Weekend Alumni Events&lt;br&gt;• Mentorship programs between undergrad-grad and grad-alumni</td>
</tr>
</tbody>
</table>

#### Campus Resources

<table>
<thead>
<tr>
<th>Goals</th>
<th>A high quality of life for our diverse faculty, staff, students and community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas of Interest</td>
<td>• Transportation&lt;br&gt;• Housing&lt;br&gt;• Health Care&lt;br&gt;• Emergency Loans</td>
</tr>
<tr>
<td>Objectives For 2017-2018</td>
<td>• Transportation Planning&lt;br&gt;• Housing Alternatives&lt;br&gt;• Nonprofit Aux. Services&lt;br&gt;• Graduate Student Emergency Fund Program</td>
</tr>
</tbody>
</table>

#### Economic

<table>
<thead>
<tr>
<th>Goals</th>
<th>Balanced budgets that allow for strategic growth and consistent service to the community, state, country and globe.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areas of Interest</td>
<td>• Increased student population based on 2045 vision&lt;br&gt;• Unstaffed student ratios&lt;br&gt;• Tuition Rates&lt;br&gt;• Health Insurance Rates&lt;br&gt;• Financial relief programs for students</td>
</tr>
<tr>
<td>Objectives For 2017-2018</td>
<td>• Investment plans for Surplus Budget&lt;br&gt;• Re-evaluate budgetary expenditures&lt;br&gt;• Find matching donations for improvement projects&lt;br&gt;• Fundraising for added programs and services</td>
</tr>
</tbody>
</table>
VII. INFORMATIONAL ITEMS
   A. Analysis of Investments
   B. University Issued Bond Balances Report
   C. Research and Sponsored Programs Report
   D. Advancement and Alumni Relations Report
   E. Recent Media Coverage
   F. Employee Safety Statistics

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

Jamie Burger, computer science graduate student, requested the Board keep minority and diversity issues in the forefront as they search for a new president.

Josh Marshall, computer science graduate student, provided his opinion on rising health care costs for graduate students and the stress this issue is having on them.

X. INFORMAL CLOSED SESSION FOR REVIEW OF PENDING LITIGATION AND A PERIODIC PERSONNEL EVALUATION OF PRESIDENT MROZ

It was moved by S. Tomaszewski, supported by J. Fream, 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:

- Fream - Yes  
  - Ryan – Yes
- Jacquart - Yes  
  - Sanders - Yes
- Johnson - Yes  
  - Tomaszewski - Yes
- Kennedy - Yes  
  - Woychowski - Yes

The motion passed.

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

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

____________________________________________________________________
Secretary of the Board of Trustees

____________________________________________________________________
Chair, Board of Trustees