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 May 3, 2019.

The Board of Trustees of Michigan Technological University met in formal session at the University’s campus at Michigan Technological University in the City of Houghton, State of Michigan, at 9:00 a.m., on the 3rd day of May, in Ballroom B of the Memorial Union Building. The place, hour, and date duly established and duly published for the holding of such a meeting.

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

The following members of the Board of Trustees were present:

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

Also present during part or all of the session were: Julie Seppala, Treasurer; Bonnie Gorman, Dean of Student and Associate Provost for Student Affairs; John Lehman, Vice President for University Relations and Enrollment; Kellie Raffaelli, Special Assistant to the President for Diversity and Inclusion; David D. Reed, Vice President for Research and Interim Chief Financial Officer; William Roberts, Interim Vice President for Advancement; Suzanne Sanregret, Athletic Director; and various members of the faculty, administrative staff, student body, press and public.

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

It was moved by W. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent, that the agenda of the formal session of May 3, 2019, as distributed to the Board, be approved.

II. OPENING REMARKS

A. Chair’s Comments

Good morning and thank you for joining us for Michigan Technological University’s Board of Trustees meeting. Today we have a very full agenda addressing both standing and new agenda items presented before the board today.

As we conclude the 2019 Spring semester at Michigan Tech, the board would like to recognize our graduates, and their families, who will receive diplomas at tomorrow’s commencement exercises. On behalf of the board, please accept our sincerest congratulations and success for the future.

For most, graduation symbolizes accomplishment and transition – so it’s fortuitous that we will recognize our faculty today for their diligence -- particularly those who have earned a promotion and/or tenure.

Today, the Board will also consider the approval of several new degree programs and the transitioning of academic units.

The actions before the board today depict the forward momentum of a healthy and vibrant university.

We are particularly grateful to everyone who participated in the Tech Forward conversations during the Fall and Spring semesters. I had the opportunity to view the final presentation online last week and was quite impressed. The energy and excitement in the room was palpable. I would especially like to thank the following individuals for their leadership of each of the nine initiatives: Andrew Burton, Dan Fuhrmann, Caryn Heldt, Lorelle Meadows, Jeff Naber, Gregory Odegard, Kellie Raffaelli, Jennifer Daryl Slack, David Shonnard and Zhenlin Wang.

The amount of work you’ve accomplished over the last seven months is remarkable; especially in light of their regular job responsibilities

I would also like to thank our university senate leadership, members of the president’s council and the administrative leadership team for your hard work during this year of transition. As a board, we appreciate the extra effort you’ve invested to position Michigan Tech as a leader in the fourth industrial revolution and are confident in this future direction. Thank you.
I would now like to invite President Koubek to provide comments.

B. President’s Comments

Chair, Members of the Board. I am delighted to be with you all on the eve of our Spring 2019 graduation exercises. Graduation at Michigan Technological University represents joy, triumph and perseverance. And tomorrow, we will celebrate the occasion with 1,000 graduates and their families. The graduation ceremony itself symbolizes the hard work and dedication of everyone involved.

But -- it is also worth telling the individual stories of success -- like that of Joseph Chen, a graduating senior, who spent most of his spare time here at Tech working on the Oculus satellite project. In June, after more than 10 years of work by both current and former students enrolled in the Aerospace Enterprise program, Oculus will be the first ever micro satellite deployed from the Falcon Heavy rocket. Or the work of assistant professor of civil and environmental engineering, Dr. Zhang – who recently received the NSF CAREER award. Nor does graduation fully capture the efforts of our campus to reimagine the future of Michigan Tech.

As you know, over the last several months our campus has been working extremely hard to develop a set of initiatives that position Michigan Tech as a thought leader in the fourth industrial revolution. Today, with the Board’s concurrence, we will take the necessary actions to establish a new college of computing at Michigan Technological University. This will be the first college of its kind in Michigan. But most importantly -- it marks another inflection point in the history of Michigan Tech -- as we advance to meet the needs of our new technology driven economy while reinvesting in our core strengths as well.

Concurrently, we have engaged in a process to reimagine education at Michigan Tech for the 21st century. This approach is critical because we are no longer training students for the jobs of today, but equipping them with the skills and competencies to be successful in the rapidly changing economic environment. I would like to thank our Dean of the Pavlis Honors College, Lorelle Meadows, for her remarkable vision and leadership on campus to press this forward.

I have highlighted only two of the nine initiatives that evolved as a result of the Tech Forward conversations. The others are equally as transformative. All of this to say, it is truly an exciting time for Michigan Tech and the future of Michigan.

On another note, I am pleased to introduce Susan Kerry to the Board as Michigan Tech’s chief financial officer and vice president for administration. Sue will start June 1 and brings 20 years of higher education experience and a bachelor’s degree from Northwestern with an emphasis on business and higher education administration and a master’s from the University of Michigan.

I would also like to say a special thanks to our colleague Dave Reed who has served as the interim CFO and Vice President for Research for the past 12 months.
Also, I would like to acknowledge my colleague Les Cook who will be assuming the post of Chancellor at Montana Tech July 1st. Les has served our institution in many capacities over the past 14 years and most recently is our Vice President for Strategic Partnerships. We as a campus are grateful to Les for his 14 years of service and wish him the very best for the next phase of his career.

In conclusion -- I wish to, again, extend my sincerest congratulations to all of our graduates and my heartfelt thanks to the Michigan Tech faculty, staff and board of trustees. Tomorrow’s ceremony represents our collective success. Thank you.

III. COMMITTEE REPORTS

A. Academic Affairs Committee Report
Ms. Linda Kennedy reported that the Academic Affairs Committee met on May 2 to discuss and evaluate the proposals on today’s agenda including several faculty promotions, new degree programs, and the granting of emeritus status to retired faculty, and changes to board policy to recognize librarians and archivists as non-tenure track faculty. We are pleased to recommend all of these actions to the full board.

The committee also met with Dean of Students/Associate Provost, Dr. Bonnie Gorman and Dean of the College of Sciences and Arts, Dr. David Hemmer, to hear more details about the initiatives driven to support student success to improve first-year retention and six-year graduation rates. Student success is why we are all here.

Finally, the committee heard from the Undergraduate Student Government, Graduate Student Government and University Senate to gather their input and contributions for helping students succeed and we wish to thank them for their contributions and enthusiasm for shared governance.

Provost’s Report
Provost’s Report

Jackie Huntoon
May 3, 2019
Tenure, Promotion, and Reappointment

3 Promotions from Lecturer to Senior Lecturer
- Andrew Galerneau – Chemistry
- Jonathan Leinonen – School of Business & Economics
- Leo Ureel – Computer Science

3 Promotions from Senior Lecturer to Principal Lecturer
- Amy Hamlin – Engineering Fundamentals
- Amber Kemppainen – Engineering Fundamentals
- Norma Veurink – Engineering Fundamentals

Tenure and Promotion

21 Recommendations for Promotions from Assistant Professor without Tenure to Associate Professor with Tenure

1 Recommendation for Associate Professor without Tenure to Associate Professor with Tenure

7 Recommendations for Promotions from Associate Professor with Tenure to Full Professor with Tenure
Kudos to Faculty Considered for Tenure and/or Promotion

From Penn State:
It appears to me that Dr. X’s varied background makes them highly and uniquely qualified to meet the diverse needs of the students at Michigan Technological University. They are an asset to Michigan Tech and to our profession and have a bright future as a leader and innovator in our field."

From Michigan State University:
“... is a strong researcher with a passion for using their knowledge and skills to improve the world—through their research, service, and outreach activities.”

From The Ohio State University:
“...is already regarded one of the world’s authorities on the...”

Kudos Continued

From Yale:
“...has been recognized as a next generation leader of our field who has a very distinguishable research identity.”

From University of California:
“MTU is lucky to count among its faculty such a brilliant professor and dedicated teacher.”

From University of Massachusetts:
“...is indeed the very symbolic character for creative and innovative research among the young faculty in the nation as well as the world.”
Kudos Continued

From Arizona State University:
“I feel that Dr. X is likely to serve as a role model for women in engineering.”

From University of South Dakota:
“Both the quantity of their scholarship and the quality indicate a level of scholarly productivity that exceeds any standard for tenure I have personally experienced in my career.”

From Virginia Tech:
“Their rate of journal article productivity continues to increase at a phenomenal rate, clearly placing them amongst the very top researchers in their field of study.”

School of Technology Future Plans

• Computer Network and System Administration (BS), Cybersecurity Minor (TCYM), Medical Informatics (MS)
  Moving to the new computing unit

• Construction Management (BS)
  Jointly managed through the School of Business & Economics & the Department of Civil & Environmental Engineering

• Mechanical Engineering Technology (BS), Minor in Manufacturing Systems (TMS) plus the School of Technology Machine Shop
  Moving to the College of Engineering as a new department with planned name: Manufacturing and Mechanical Engineering Technology (name to be finalized)

• Electrical Engineering Technology (BS), Minor in Data Acquisition and Industrial Control (TDAC), and proposed Master of Science in Mechatronics
  Moving to the new computing unit

• Surveying Engineering (BS), Surveying Minor (TSUM), Integrated Geospatial Technology (MS)
  Moving to the Department of Civil & Environmental Engineering

Transitions to be complete by July 1, 2019
<table>
<thead>
<tr>
<th>CoE</th>
<th>Computer Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA</td>
<td>Cybersecurity</td>
</tr>
<tr>
<td>SBE</td>
<td>Robotics &amp; Mechatronics</td>
</tr>
<tr>
<td>SFRES</td>
<td>Human Factors</td>
</tr>
<tr>
<td>Pavlis Honors College</td>
<td>Data Science</td>
</tr>
<tr>
<td>Graduate School</td>
<td>Computational Science &amp; Engineering</td>
</tr>
<tr>
<td></td>
<td>X + Computer Science</td>
</tr>
</tbody>
</table>

**DEGREE PROGRAMS**
- Computer Science (CS)
- Software Engineering (SE)
- Computer Network & System Administration (CSNA)
- Health Informatics (HI)
- Mechatronics, Electrical, and Robotics Engineering Technology (MERET)*

**RESEARCH**
- Institute of Computing & Cybersystems (ICC)
- General Education Learning Center
- High-Performance Computing Support

**SERVICE**
- Convergence Computing
- Computational Science & Engineering
- Data Science
- Human Factors
- Cyber-Physical Systems
- Cybersecurity
- Computer Systems

**COMPUTATIONAL THINKING FOR THE MODERN CONNECTED WORLD**

*EET will transition to MERET (Mechatronics, Electrical, and Robotics Engineering Technology)

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**Tech Forward**

**Develop**
solutions to natural resource, water, and energy problems.

**Build**
innovative autonomous and intelligent systems.

**Create**
technological solutions to enhance human health and quality of life.

**Prepare**
culturally receptive leaders for a diverse world.

**Redefine**
education for the next generation.
Preparing Students – Skills and Qualities

- Communication
- Computational Thinking
- Critical Thinking
- Leadership
- Networking
- Systems Thinking
- Teaming
- Adaptable
- Comfortable with Ambiguity

- Confident
- Good Community/Global Citizen
- Hands-on/Can-do Approach
- Resilient/Tenacious
- Self-Motivated
- Self-Aware
- Willing to take Responsible Risks
Preparing Students - Education

- Early real-world experiences
- Exposure to a variety of careers
- Focus on sustainability
- Interdisciplinary

Tech Forward Initiatives

- Sustainability and Resilience: David Shonnard
- Data Revolution and Sensing: Dan Fuhrmann
- Advanced Materials and Manufacturing: Greg Odegard
- Policy, Ethics, and Culture: Jennifer Daryl Slack
- Natural Resources, Water, and Energy: Andrew Burton
- Autonomous and Intelligent Systems: Jeff Naber
- Health and Quality of Life: Caryn Heldt
- Education for the 21st Century: Lorelle Meadows
- Diversity and Inclusion: Kellie Raffaelli
Thank you

Student Affairs Report

Our Accomplishments
Our Community

Bonnie Gorman
Dean of Students and
Associate Provost

Board of Trustees
May 3, 2019
Commencement Celebration

1059
756 Bachelors
32 Masters
271 PhDs

Commencement Speaker Finalists

- Dominique Aleo
  Biological Sciences

- Nick Olson
  Chemical Engineering

- Monica Brechtling
  Mechanical Engineering

- Eva Heydrich
  Chemical Engineering

- Liesl Flannery
  Chemical Engineering
Graduate Student Colloquium

Karina Eyre  
Civil and Environmental Engineering  
Graduate Student Leader

Miles Penhale  
Mechanical Engineering  
Graduate Student Scholar

Undergraduate Research Symposium

Celly Fessel Doan  
Environmental Engineering  
Comparison of Nannochloropsis and Chlorella Vulgaris Algae to Energy Efficiency in the Rio Grande Watershed

Jacob LeBarre  
Chemical Engineering  
Improvement of Virus Purification Method using Cation Exchange Chromatography

Kaylee Meyers  
Biomedical Engineering  
Nitric Oxide Releasing Composite Hydrogels for Tendon Repair Via Matrix Metalloproteinase Controlled Pathways

85 participants
32 scholarship
35 teaching
3 service
61 participants
Student Leadership Awards

Jack Hendrick
Biomedical Engineering
President's Award for Leadership

Tessa Steenwinkel
Biological Sciences
Provost's Award for Scholarship

Elise Cheney-Makens
Biochemistry and Molecular Biology
Dean of Students Award for Service

Ron Kylonen
Mechanical Engineering
Percy Julian Award

227 nominations

24 department scholars

Fraternity and Sorority Life Awards

Trevor Peffley
Electrical Engineering
Fraternity Man of the Year
Sigma Rho

Greta Colford
Mechanical Engineering
Sorority Woman of the Year
Alpha Gamma Delta

12,000 hours of service

11,000 statue hours

$28,000 donated
Staff and Faculty Recognition

**Jessie Stapleton**
Director of Student Activities, National Association of Campus Activities (NACA) 2019 Outstanding Advisor for the Northern Plains Region

**Tammy Monette**
Custodian, Wadsworth Hall
Excellence in Service from the American College Personnel Association

**Joel Isaacson**
Associate Athletic Director
Clair M Donovan Award for Service

**Melissa Baird**
Assistant Professor, Social Sciences
Graduate School Mentor

Teaching Excellence Award Finalists

- Ann Maclean
  SFRES
- Andrew Burton
  SFRES
- Andrew Barnard
  COE MEEM
- Molly Cavaleri
  SFRES
- Lisa Johnson de Gordillo
  CSA VPA
- Sheila Milligan
  SBE
- Jeffrey Wall
  SBE
- Heather Knewton
  SBE
- Christopher Webster
  SFRES
- Thomas Werner
  CSA BIO
B. Audit and Finance Committee Report

Mr. Steven Tomszewski reported that the Audit and Finance Committee has met twice since the last board meeting. The Committee reviewed the financial position and outlook for 2019 which included the third quarter financial results, the projections for the general fund and the cash position for the University.

The committee reviewed the budget planning parameters utilized to build the Fiscal Year 2020 General Fund Operating Budget. There has been considerable planning and discussions over the last six months in the development of the budget which included long-term planning target strategies.

The recommendation for the passage of the budget will authorize the Administration to revise the budget without increasing resident undergraduate tuition and room and board and apartment rental rates, in order to reflect any changes in State Appropriations and/or tuition cap while maintaining a balanced budget. The committee supports this recommendation.

The committee chair recognized the extraordinary efforts of both the administration and the faculty in reducing structural costs. These efforts continue to support the focus of tuition affordability. PayScale ranks Michigan Tech as a top 50 school nationally for the best return on investment and the 2020 budget and tuition rates continue to support this recognition. Thank you.
Lastly, the committee supports the consent agenda recommendation to approve Andrews Hooper and Pavlik as the University’s External Auditors for the year ended June 30, 2019

C. Leadership Committee

Mr. William Johnson reported that the Leadership Committee met on May 2. Items discussed:
- President Koubek reviewed his agreed upon strategic goals and objectives for FY19; nine of the goals have been completed and the remaining three are expected to be completed before June 30.
- Reviewed FY20 strategic goals/objectives which include five different areas with 15 draft goals/objectives. These will be finalized at the August meeting.
- The Board Secretary reviewed annual salary survey information.
- Reviewed the August schedule which includes Presidential salary/bonus/FY20 goals.
- The Leadership Committee Charter will implement at least one significant change.
- Developed recommendations for election of Board Chair and Vice Chair which will be discussed later in formal session.

IV. CONSENT AGENDA

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

A. Approval of Minutes
It was moved by W. Johnson, supported by J. Bacon, and passed by voice vote without dissent, that the minutes of the formal session of March 1, 2019, as distributed to the Board, be approved.

B. Gifts
It was moved by W. Johnson, supported by J. Bacon, and passed by voice vote without dissent, that the Board of Trustees acknowledges the gifts to Michigan Technological University.
C. Resignations, Retirements and Off Payroll

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

<table>
<thead>
<tr>
<th>Source</th>
<th>FY19 YTD</th>
<th>FY18 YTD</th>
<th>FY 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>5.97</td>
<td>6.57</td>
<td>9.18</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated)</td>
<td>1.10</td>
<td>1.60</td>
<td>1.90</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>13.00</td>
<td>7.22</td>
<td>12.14</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>2.24</td>
<td>2.33</td>
<td>2.86</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>10.99</td>
<td>8.12</td>
<td>10.72</td>
</tr>
<tr>
<td>Corporations</td>
<td>1.27</td>
<td>1.18</td>
<td>2.14</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>0.24</td>
<td>0.16</td>
<td>0.19</td>
</tr>
<tr>
<td>Gifts-In-Kind</td>
<td>1.33</td>
<td>0.16</td>
<td>0.16</td>
</tr>
<tr>
<td>Grand Total</td>
<td>37.54</td>
<td>27.84</td>
<td>40.16</td>
</tr>
</tbody>
</table>

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

It was moved by W. Johnson, supported by J. Bacon, 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, 2019:
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

A. Employee Recognition
It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote without dissent that the Board of Trustees adopts the Resolution of Appreciation for the following individuals:

- Sheri Thomas – 35 years of service

B. Emeritus Rank
It was moved by L. Kennedy, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointments:

- Dr. John Beard, Professor Emeritus
  Mechanical Engineering-Engineering Mechanics

- Dr. David Hand, Professor Emeritus
  Civil and Environmental Engineering

- Dr. David Nitz, Professor Emeritus
  Physics

C. Appointments, Not Involving Tenure and/or Promotion
It was moved by J. Littmann, supported by R. Jacquart, 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 19, 2019*

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gordon Paterson</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>Christo Christov</td>
<td>Associate Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Kathryn Perrine</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Kevin Trewartha</td>
<td>Assistant Professor</td>
<td>Cognitive &amp; Learning Sciences</td>
</tr>
<tr>
<td>Bo Chen</td>
<td>Assistant Professor</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Jianhui Yue</td>
<td>Assistant Professor</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Oren Abeles</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Sarah Bell</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Lesley Alexandra Morrison</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Xiao Zhang</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Issel Nakamura</td>
<td>Assistant Professor</td>
<td>Physics</td>
</tr>
<tr>
<td>Angela Carter</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Kent Cyr</td>
<td>Assistant Professor</td>
<td>Visual &amp; Performing Arts</td>
</tr>
<tr>
<td>Sangyoon Han</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Smitha Rao</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Daniel Dowden</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engineering</td>
</tr>
<tr>
<td>Stephen Morse</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engineering</td>
</tr>
<tr>
<td>Jeremy Bos</td>
<td>Assistant Professor</td>
<td>Electrical &amp; Computer Engineering</td>
</tr>
<tr>
<td>Roohollah Askari</td>
<td>Assistant Professor</td>
<td>Geological &amp; Mining Eng. &amp; Sciences</td>
</tr>
<tr>
<td>Erik Herbert</td>
<td>Assistant Professor</td>
<td>Materials Science &amp; Engineering</td>
</tr>
<tr>
<td>Parisa Abadi</td>
<td>Assistant Professor</td>
<td>Mechanical Eng., – Eng. Mechanics</td>
</tr>
<tr>
<td>Hassan Masoud</td>
<td>Assistant Professor</td>
<td>Mechanical Eng., – Eng. Mechanics</td>
</tr>
</tbody>
</table>

**Appointment without Tenure for Two Years (continued)**

*Effective August 19, 2019*

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peng Guo</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Ulrich Schmelzle</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>Fengjing Liu</td>
<td>Associate Professor</td>
<td>School of Forest Res. &amp; Env. Science</td>
</tr>
</tbody>
</table>

**Appointment without Tenure for One Year**

*Effective August 19, 2019*

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marina Tanasova</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Latika Gupta</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
</tbody>
</table>

**D. Appointments, Involving Tenure and/or Promotion**

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

It was moved by L. Kennedy, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees approves the promotions listed herein.

<table>
<thead>
<tr>
<th>Promotion from Assistant Professor without Tenure to Associate Professor with Tenure</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Durocher</td>
</tr>
<tr>
<td>Ebenezer Tumban</td>
</tr>
<tr>
<td>Keith Vertanen</td>
</tr>
<tr>
<td>Abraham Romney</td>
</tr>
<tr>
<td>Marcelino Viera-Ramos</td>
</tr>
<tr>
<td>Steven Elmer</td>
</tr>
<tr>
<td>Zhiying Shan</td>
</tr>
<tr>
<td>William Keith</td>
</tr>
<tr>
<td>Melissa Baird</td>
</tr>
<tr>
<td>Mark Rolleau</td>
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<tr>
<td>Michael Christianson</td>
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<tr>
<td>Zhen Liu</td>
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<tr>
<td>Daisuke Minakata</td>
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<tr>
<td>Kuolin Zhang</td>
</tr>
<tr>
<td>Pengfei Xue</td>
</tr>
<tr>
<td>Lucia Gauchia</td>
</tr>
<tr>
<td>Zhaohui Wang</td>
</tr>
<tr>
<td>Andrew Barnard</td>
</tr>
<tr>
<td>Emanuel Marcos Castro-Oliveira</td>
</tr>
<tr>
<td>Scott Wagner</td>
</tr>
</tbody>
</table>

**F. Revision to Board Policy 6.1 Faculty Definitions**

It was moved by W. Johnson, supported by J. Littmann, and passed by voice vote without dissent that the Board of Trustees amends Board Policy 6.1 Faculty Definitions as presented.

The amended policy shall read as follows:
6.1 Faculty Definitions

The faculty comprises two groups: "tenured and tenure-track faculty" and "non-tenure-track faculty". The "tenured and tenure-track faculty" comprises individuals holding the rank of assistant professor, associate professor, or professor. The "non-tenure-track faculty" comprises individuals holding the rank of instructor, lecturer, senior lecturer, principal lecturer, librarian, senior librarian, principal librarian, archivist, senior archivist, principal archivist, professor of practice, visiting (assistant/associate/professor) faculty, adjunct (professor, associate professor, assistant professor, instructor, lecturer, senior lecturer, principal lecturer, librarian, senior librarian, principal librarian, archivist, senior archivist, principal archivist, professor of practice) faculty, affiliated (professor, associate professor, assistant professor, instructor, lecturer, senior lecturer, principal lecturer, librarian, senior librarian, principal librarian, archivist, senior archivist, principal archivist, professor of practice, research assistant/associate/professor, emeritus) faculty, research (assistant/associate/professor) faculty, ROTC faculty, or emeritus faculty.

"Learned professions" shall mean those professions (or members thereof) skilled in a calling or vocation requiring advanced knowledge as evidenced by a specific degree from a recognized College or University.

"Engaged in teaching" shall be interpreted to mean that the person is to teach during each academic semester of the normal academic year.

"Appointed by the Dean of the Graduate School" shall imply appointment to the Graduate Faculty as defined by the Graduate Council. Such appointment is limited to those with advanced degrees or equivalent experience, as well as interest and experience in research or teaching on the graduate level.

"Equivalent experience" shall be determined by the President of the University.

IV-B-1. The Faculty of the University

The President shall hire the faculty of the University which shall consist of the Undergraduate and Graduate Faculties.

Each faculty member shall qualify for one or more of the following defined faculties.

1. The Undergraduate Faculty consists of the members of the learned professions who are engaged in teaching for a degree in one of the learned professions and/or direct supervision thereof.

2. The Graduate Faculty consists of members of the faculty who have been appointed by the Dean of the Graduate School to be members of the Graduate Faculty.
Administrative officials of the University and members of staff, may be accorded membership of the faculties and such membership shall be within a specific department or school of the University.

This policy shall be administered in accordance with procedures recommended by the Senate and approved by the Provost and Senior Vice President for Academic Affairs.

**G. Proposal for a Master’s in Engineering Management Degree**

The faculty of the School of Business and Economics at Michigan Technological University seek to establish a Master’s in Engineering Management (MEM) degree.

The proposal has been approved by the University Senate and the University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

It was moved by W. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees approves the Master’s in Engineering Management degree.

**H. Proposal for a Master’s of Science in Mechatronics Degree**

The faculty of the School of Technology at Michigan Technological University seek to establish a Master’s of Science (MS) degree program in Mechatronics. This interdisciplinary degree is an outcome of a joint effort between the Electrical Engineering Technology (EET) and Mechanical Engineering Technology (MET) programs in the School of Technology, as well as the Departments of Electrical and Computer Engineering (ECE) and Mechanical Engineering – Engineering Mechanics (ME-EM) in the College of Engineering.

The proposal has been approved by the University Senate and the University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.

It was moved by W. Johnson, supported by J. Littmann, and passed by voice vote without dissent that the Board of Trustees approves the Master’s of Science in Mechatronics degree.

**I. Proposal for a Bachelor’s of Science in Cybersecurity Degree**

The faculty of the School of Technology at Michigan Technological University seek to establish a Bachelor’s of Science (BS) degree program in Cybersecurity. This interdisciplinary degree is a joint effort of the Computer Network and System Administration (CNSA) Program in the School of Technology, the Department of Computer Science (CS) in the College of Sciences and Arts, and the Department of Electrical and Computer Engineering (ECE) in the College of Engineering.

The proposal has been approved by the University Senate and the University administration. The University is seeking Board of Trustees approval to advance the proposal to the State Academic Affairs Officers.
It was moved by W. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees approves the Bachelor’s of Science in Cybersecurity degree.

**J. Approval of Department of Manufacturing and Mechanical Engineering Technology**

As part of University transition that includes the dissolution of the School of Technology and establishment of a College of Computing, the Office of the Provost and Senior Vice President for Academic Affairs recommends that resources associated with the Bachelor of Science in Mechanical Engineering Technology program and the Minor in Manufacturing Systems (including the machine shop that is currently housed within the School of Technology) move into a new department to be named Manufacturing and Mechanical Engineering Technology that will be housed within the College of Engineering. Approval of the Board of Trustees is required to form a new department at Michigan Technological University.

It was moved by W. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees:

- Supports the dissolution of the School of Technology;
- Supports the formation of the College of Computing;
- Approves the formation of a new Department of Manufacturing and Mechanical Engineering Technology within the College of Engineering.

**K. FY20 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 J. Littmann, supported by W. Johnson, and passed by voice vote without dissent that the Board of Trustees approves the FY20 General Fund Operating Budget as presented, including the FY20 Room & Board and Apartment Rental Rates, and authorizes the Administration to revise the general fund operating budget, without increasing resident undergraduate tuition and room & board and apartment rental rates, 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

FY20 General Fund Budget

<table>
<thead>
<tr>
<th>Proposed Budget</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Revenues</strong></td>
<td></td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>$144,832,831</td>
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<tr>
<td>Federal Grants and Contracts</td>
<td>$150,000</td>
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<tr>
<td>State &amp; Local Government Grants &amp; Contracts</td>
<td>-</td>
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<tr>
<td>Nongovernmental Grants &amp; Contracts</td>
<td>-</td>
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<tr>
<td>Indirect Cost Recoveries</td>
<td>$15,226,000</td>
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<td>Educational Activities/Misc. Revenues</td>
<td>$343,450</td>
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<td>Student Resident Fees</td>
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<td>Sales and Services of Dept Activities</td>
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<tr>
<td><strong>Total Operating Revenues</strong></td>
<td>$160,552,281</td>
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<tr>
<td><strong>Operating Expenses</strong></td>
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<tr>
<td>Staff S&amp;W</td>
<td>$(43,514,326)</td>
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<tr>
<td>Faculty S&amp;W</td>
<td>$(49,399,912)</td>
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<tr>
<td>Grad Student S&amp;W</td>
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<td>Undergrad Student S&amp;W</td>
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<td>Fringe Benefits</td>
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<td>Supplies &amp; Services</td>
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<tr>
<td>Scholarships</td>
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<td>Utilities</td>
<td>$(4,164,493)</td>
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<tr>
<td>Strategic Reallocations/Reductions</td>
<td>$(4,715,598)</td>
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<tr>
<td>Contingency/Carryforward Reserve</td>
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<tr>
<td><strong>Total Operating Expenses</strong></td>
<td>$(205,000,155)</td>
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<td><strong>Transfers</strong></td>
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<tr>
<td>Mandatory/Non-Mandatory</td>
<td>$(11,769,440)</td>
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<tr>
<td><strong>Nonoperating Revenues (Expenses)</strong></td>
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</tr>
<tr>
<td>State Appropriations</td>
<td>$50,889,814</td>
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<tr>
<td>Gift Income</td>
<td>$4,527,500</td>
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<td>Investment Income</td>
<td>$800,000</td>
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<td>Interest Expense</td>
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<tr>
<td><strong>Total Nonoperating Revenues (Expenses)</strong></td>
<td>$56,217,314</td>
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<tr>
<td><strong>Net Income (Loss)</strong></td>
<td>$0</td>
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L. Appointment of Treasurer

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

As Ms. Susan Kerry begins her employment as Chief Financial Officer and Senior Vice President of Administration on June 1, 2019, it is being recommended that the Board appoint a Treasurer effective June 1, 2019.
It was moved by J. Littmann, supported by S. Tomaszewski, and passed by voice vote without dissent that the Board of Trustees:

M. Election of Chair and Vice Chair
It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote without dissent that the Board of Trustees elects Brenda Ryan as chair for the fiscal year 2019-2020; and that further, the Board elects Bill Johnson as vice chair for the same period.

VI. REPORTS
A. Undergraduate Student Government Report – Melanie Thomas, President
B. Graduate Student Government Report – Apurva Baruah, President
C. University Senate Report – Dr. Michael Mullins, President
D. School of Business Report – Matthew Sanregret/Zachary Rosenbaum/Sarah Anderson

Copies of these reports were included in the agenda book.

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

VIII. OTHER BUSINESS
There was no other business at this time.

IX. PUBLIC COMMENTS
Joshua Marshal, Computer Science Alumni, provided his opinion and concerns on faculty and rising tuition costs.

XI. ADJOURNMENT
It was moved by W. Johnson, supported by S. Tomaszewski, and passed by voice vote without dissent, that the meeting be adjourned.

_______________________________________
Secretary of the Board of Trustees

Chair, Board of Trustees